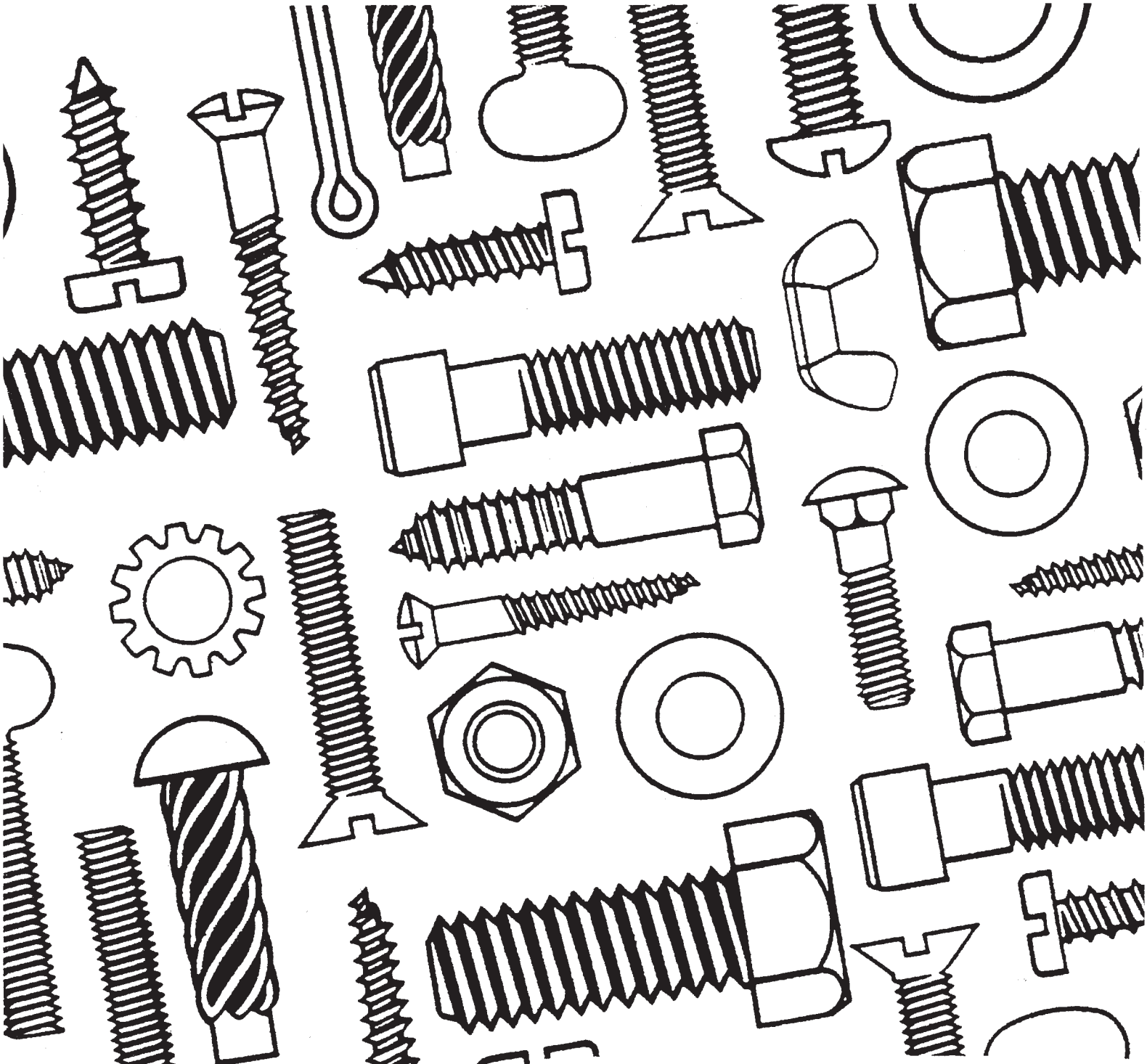


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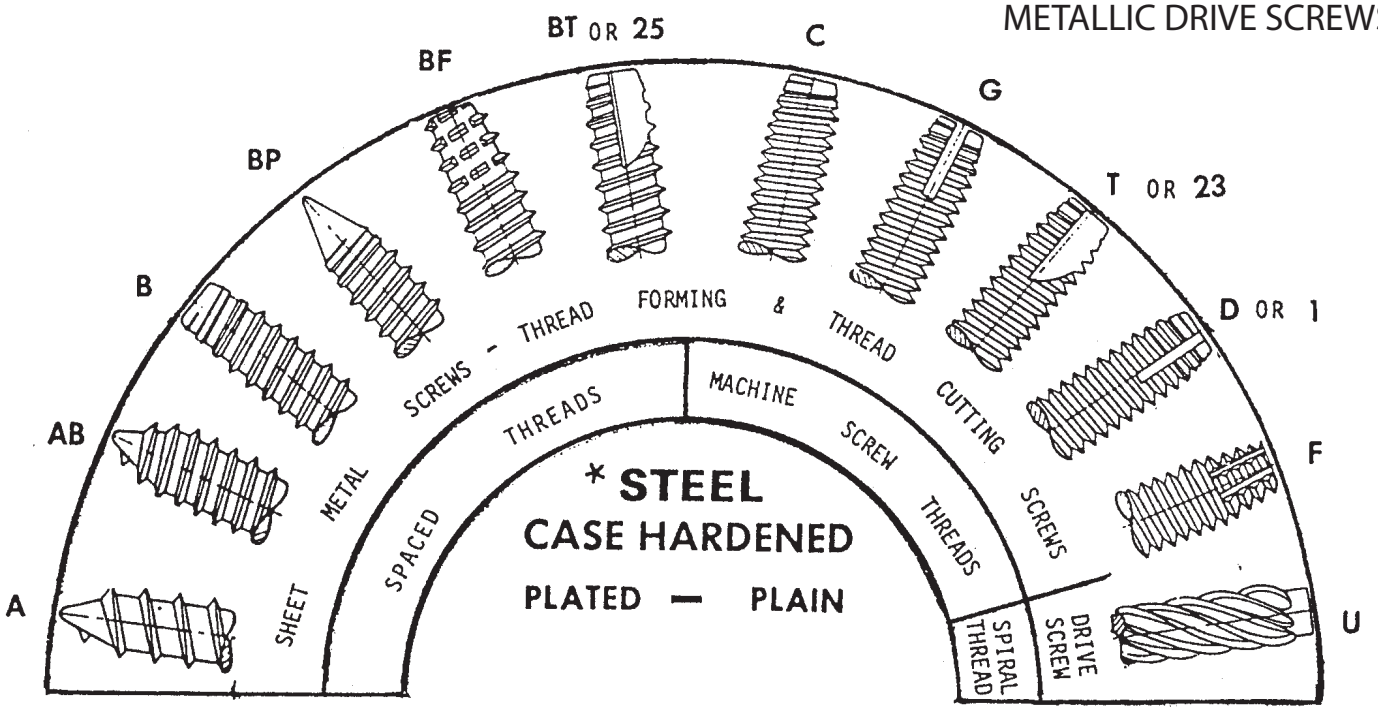
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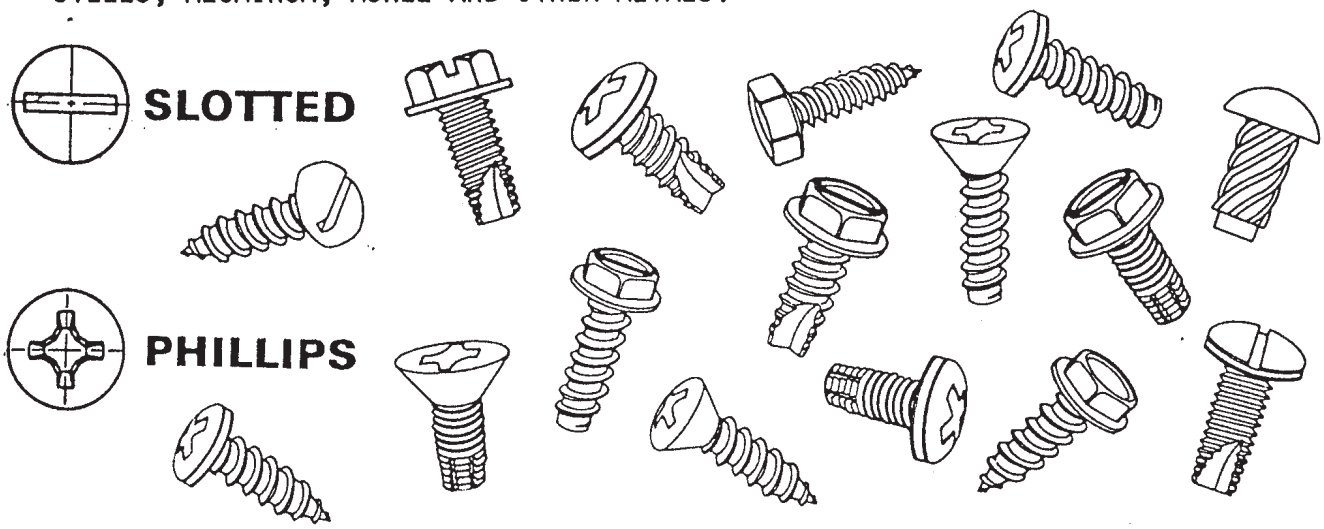
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Tapping Screws

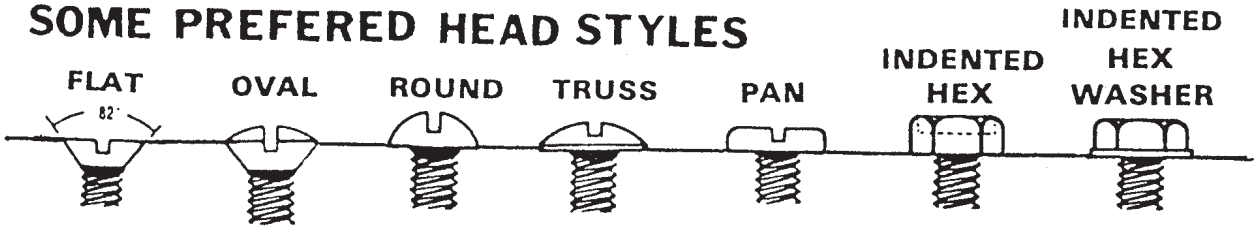
TYPE DESIGNATION OF
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AND
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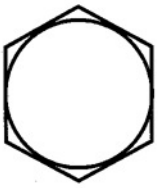
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Cap Screws & Matching Components 1

Bowmalloy

Comparison of Cap Screw Strength by Grade

Comparsions are based on requirements established by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials (ASTM).



SAE Spec	ASTM Spec	Material & Treatment
SAE J429 Grade 2	No ASTM Rating	Low Carbon Steel

Full Size Bolts			Core Hardness Rockwell	
Nom. Size Dia. (In.)	Proof Load (Stress) psi	Tensile Strength (Stress) Min. psi	Min.	Max.
¼ thru ¾	55,000	74,000	B80	B100
⅞ thru 1½	33,000	60,000	B70	B100



SAE Spec	ASTM Spec	Material & Treatment
SAE J429 Grade 5	A449 Type 1	Medium Carbon Steel, Quenched & Tempered

Full Size Bolts			Core Hardness Rockwell	
Nom. Size Dia. (In.)	Proof Load (Stress) psi	Tensile Strength (Stress) Min. psi	Min.	Max.
¼ thru 1	85,000	120,000	C25	C34
1⅛ thru 1½	74,000	105,000	C19	C30



SAE Spec	ASTM Spec	Material & Treatment
SAE J429 Grade 8	A354 Grade BD	Bowma-Torq®/ Grade 8 Medium Carbon Alloy Steel, Quenched & Tempered

Full Size Bolt			Core Hardness Rockwell	
Nom. Size Dia. (In.)	Proof Load (Stress) psi	Tensile Strength (Stress) Min. psi	Min.	Max.
½ thru 1½	120,000	150,000	C33	C39



SAE Spec	ASTM Spec	Material & Treatment
No SAE Rating High Enough	No ASTM Rating High Enough	Bowmalloy® Proprietary, Medium Carbon Alloy Steel, Quenched & Tempered

Full Size Bolts			Core Hardness Rockwell	
Nom. Size Dia. (In.)	Proof Load (Stress) psi	Tensile Strength (Stress) Min. psi	Min.	Max.
¼ thru 1½	156,000	180,000 min. 200,000 max.	C38	C42

Bowmalloy® Fastening System

High-Strength Fasteners Specially Engineered for High-Stress Applications

Precision Rolled Threads

Strong rolled threads resist shear, enhance thread engagement and maintain a consistent stress pattern that reduces load concentration.

Class 2A Thread Fit

Permits maximum plating thickness while maintaining precision thread engagement.

Matching Fastener Components

For ultimate strength, holding power and service life, match Bowmalloy® cap screws with Bowmalloy® nuts or BowmaGrip® lock nuts and Bowmalloy® washers!

Excellent Elongation Properties

Stretches a minimum of 12% in a standard elongation test per SAE J429.

High Visibility Grade Markings

12 raised radial lines, our symbol of alloy steel rated HIGHER than SAE Grade 8.

Extra High Head

Full grip head, designed 20% higher, provides even distribution of torque forces. Makes wrenching safe and easy.

Smooth Chamfered Point

Allows quick and easy thread engagement.

Radiused Root Thread Runout

Eliminates stress points that cause fatigue failure. Provides long service life.

Smooth, Precision Formed Washer-Faced Bearing Surface

Permits complete 360° load distribution; maintains appropriate and consistent clamping forces.

Smooth Fillet Radius Design

Reduces stress concentration where the head and shank meet; minimizes the possibility of "popping" the head.

Through-Hardened Alloy Steel

Tensile strength up to 200,000 psi maintains shock-absorbing, fatigue-resistant ductility. Proven proof load performance 30% stronger than same size SAE Grade 8 minimum requirements. Full strength properties are maintained through intermittent temperature changes between -65° to +800°F.

Unichrome™ Plating

An exclusive electro-deposited plating, baked for protection against hydrogren embrittlement, then chromatized for corrosion resistance that is superior to commercial zinc plating.

Quality Control

1. In-Process inspection by machine operators and inspectors.
2. Lab tested, dimensional layout, mechanical tests and inspection.
3. Lot traceability to the material and test certifications by means of a designated lot number on our packaging.

Bowmalloy® Hex Head Cap Screws



- Made in USA
- UNC (USS) or UNF (SAE)
- Exceeds SAE J429 Grade 8 and ASTM A354-BD tensile strength requirements
- Special high-strength medium carbon alloy steel
- Through-hardened
- 180,000-200,000 psi tensile strength (190,000 psi average)

BOWMAN Unichrome PLATING™

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
36000	36300	¼	½	100
MP36000	MP36300	¼	½	50
36001	36301	¼	⅝	100
36002	36302	¼	¾	100
MP36002	MP36302	¼	¾	50
36003	*	¼	⅞	100
36004	36304	¼	1	100
MP36004	MP36304	¼	1	50
36005	36305	¼	1¼	100
36006	36306	¼	1½	100
MP36006	MP36306	¼	1½	50
36007	36307	¼	1¾	100
36008	36308	¼	2	100
MP36008	MP36308	¼	2	50
36009	36309	¼	2¼	100
36010	36310	¼	2½	100
MP36010	MP36310	¼	2½	25
36011	36311	¼	2¾	100
36012	36312	¼	3	50
MP36012	MP36312	¼	3	25
36012-1	*	¼	3¼	50
36013	36313	¼	3½	50
36014	36314	¼	4	50

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
36025	36325	5/16	½	100
36026	*	5/16	⅝	100
36027	36327	5/16	¾	100

Continued on next page

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2 Cap Screws & Matching Components

Continued from previous page

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
MP36027	MP36327	5/16	3/4	50
36028	*	5/16	7/8	100
36029	36329	5/16	1	100
MP36029	MP36329	5/16	1	50
36030	36330	5/16	1 1/4	100
36031	36331	5/16	1 1/2	100
MP36031	MP36331	5/16	1 1/2	50
36032	36332	5/16	1 3/4	100
MP36032	*	5/16	1 3/4	50
36033	36333	5/16	2	100
MP36033	MP36333	5/16	2	25
36034	36334	5/16	2 1/4	100
MP36034	*	5/16	2 1/4	25
36035	36335	5/16	2 1/2	100
MP36035	MP36335	5/16	2 1/2	25
36036	36336	5/16	2 3/4	100
36037	36337	5/16	3	50
MP36037	MP36337	5/16	3	25
36038	*	5/16	3 1/4	50
36039	36339	5/16	3 1/2	50
MP36039	*	5/16	3 1/2	25
36040	36340	5/16	4	50
MP36040	*	5/16	4	25
36040-1	36340-1	5/16	4 1/2	50
MP36040-1	*	5/16	4 1/2	25
36042	36342	5/16	5	50
MP36042		5/16	5	25

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
36050	36350	3/8	1/2	100
36051	*	3/8	5/8	100
36052	36352	3/8	3/4	100
MP36052	MP36352	3/8	3/4	25
36053	36353	3/8	7/8	100
36054	36354	3/8	1	100
MP36054	MP36354	3/8	1	25
36055	36355	3/8	1 1/4	100
MP36055	MP36355	3/8	1 1/4	25
36056	36356	3/8	1 1/2	100
MP36056	MP36356	3/8	1 1/2	25
36057	36357	3/8	1 3/4	100
MP36057	*	3/8	1 3/4	25
36058	36358	3/8	2	50
MP36058	MP36358	3/8	2	25
36059	36359	3/8	2 1/4	50
MP36059	*	3/8	2 1/4	25
36060	36360	3/8	2 1/2	50
MP36060	MP36360	3/8	2 1/2	25
36061	36361	3/8	2 3/4	50
MP36061	*	3/8	2 3/4	25
36062	36362	3/8	3	50
MP36062	MP36362	3/8	3	10
36063	36363	3/8	3 1/4	50
36064	36364	3/8	3 1/2	50
MP36064	*	3/8	3 1/2	10
36065	*	3/8	3 3/4	50
36066	36366	3/8	4	25
36067	36367	3/8	4 1/2	25
MP36067	*	3/8	4 1/2	10
36068	36368	3/8	5	25
MP36068		3/8	5	10
36069	36369	3/8	5 1/2	25
36070	36370	3/8	6	25
36071	*	3/8	6 1/2	25
36072	*	3/8	7	25

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
36077	36377	7/16	3/4	50
36079	36379	7/16	1	50
MP36079	MP36379	7/16	1	25
36080	36380	7/16	1 1/4	50
MP36080	*	7/16	1 1/4	25
36081	36381	7/16	1 1/2	50
MP36081	MP36381	7/16	1 1/2	25
36082	36382	7/16	1 3/4	50
36083	36383	7/16	2	50
MP36083	MP36383	7/16	2	25
36084	36384	7/16	2 1/4	50
MP36084	*	7/16	2 1/4	25
36085	36385	7/16	2 1/2	50
MP36085	MP36385	7/16	2 1/2	10
36086	36386	7/16	2 3/4	25
MP36086	*	7/16	2 3/4	10
36087	36387	7/16	3	25
MP36087	MP36387	7/16	3	10
36088	*	7/16	3 1/4	25
36089	36389	7/16	3 1/2	25
MP36089	*	7/16	3 1/2	10
36091	36391	7/16	4	25
MP36091	*	7/16	4	10
36092	36392	7/16	4 1/2	25
MP36092	*	7/16	4 1/2	10
36093	36393	7/16	5	25
MP36093		7/16	5	10
36094	*	7/16	5 1/2	25
MP36094	*	7/16	5 1/2	10
36095	36395	7/16	6	25
MP36095	*	7/16	6	10
36097	*	7/16	6 1/2	25
MP36097	*	7/16	6 1/2	10
36098	*	7/16	7	10

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
36102	36402	1/2	3/4	50
36104	36404	1/2	1	50
MP36104	MP36404	1/2	1	25
36105	36405	1/2	1 1/4	50
MP36105	*	1/2	1 1/4	25
36106	36406	1/2	1 1/2	50
MP36106	MP36406	1/2	1 1/2	25
36107	36407	1/2	1 3/4	50
MP36107	*	1/2	1 3/4	25
36108	36408	1/2	2	50
MP36108	MP36408	1/2	2	25
36109	36409	1/2	2 1/4	25
36110	36410	1/2	2 1/2	25
MP36110	MP36410	1/2	2 1/2	10
36111	36411	1/2	2 3/4	25
MP36111	*	1/2	2 3/4	10
36112	36412	1/2	3	25
MP36112	MP36412	1/2	3	10
36113	36413	1/2	3 1/4	25
36114	36414	1/2	3 1/2	25
MP36114	*	1/2	3 1/2	10
36115	*	1/2	3 3/4	25
36116	36416	1/2	4	25
MP36116	*	1/2	4	10
36117	36417	1/2	4 1/2	25
MP36117	*	1/2	4 1/2	10
36118	36418	1/2	5	25
MP36118	*	1/2	5	10
36119	36419	1/2	5 1/2	25
MP36119	*	1/2	5 1/2	10
36120	36420	1/2	6	25

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
MP36120	*	1/2	6	10
36121	36421	1/2	6 1/2	10
36122	36422	1/2	7	10
36123	*	1/2	7 1/2	10
36124	*	1/2	8	10

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
36129	36429	9/16	1	25
MP36129	MP36429	9/16	1	5
36130	36430	9/16	1 1/4	25
36131	36431	9/16	1 1/2	25
MP36131	MP36431	9/16	1 1/2	5
36132	36432	9/16	1 3/4	25
36133	36433	9/16	2	25
MP36133	MP36433	9/16	2	5
36134	36434	9/16	2 1/4	25
36135	36435	9/16	2 1/2	10
MP36135	MP36435	9/16	2 1/2	5
36137	36437	9/16	3	10
MP36137	MP36437	9/16	3	5
36139	36439	9/16	3 1/2	10
36141	36441	9/16	4	10
36142	36442	9/16	4 1/2	10
36143	36443	9/16	5	10
36143-1	*	9/16	5 1/2	10
36144	*	9/16	6	10

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
36145	36445	5/8	1	25
36146	36446	5/8	1 1/4	25
36147	36447	5/8	1 1/2	25
MP36147	MP36447	5/8	1 1/2	10
36148	36448	5/8	1 3/4	25
MP36148	*	5/8	1 3/4	10
36149	36449	5/8	2	25
MP36149	MP36449	5/8	2	10
36150	36450	5/8	2 1/4	25
MP36150	MP36450	5/8	2 1/4	10
36151	36451	5/8	2 1/2	25
MP36151	MP36451	5/8	2 1/2	10
36152	36452	5/8	2 3/4	25
MP36152	*	5/8	2 3/4	10
36153	36453	5/8	3	25
MP36153	MP36453	5/8	3	10
36154	36454	5/8	3 1/4	25
36155	36455	5/8	3 1/2	25
MP36155	MP36455	5/8	3 1/2	10
36156	36456	5/8	3 3/4	25
36157	36457	5/8	4	25
MP36157	MP36457	5/8	4	10
36158	36458	5/8	4 1/2	25
MP36158	MP36458	5/8	4 1/2	10
36159	36459	5/8	5	25
MP36159	MP36459	5/8	5	10
36160	36460	5/8	5 1/2	25
MP36160	*	5/8	5 1/2	10
36161	36461	5/8	6	25
MP36161	*	5/8	6	10
36162	36462	5/8	6 1/2	10
36163	36463	5/8	7	10
MP36163	*	5/8	7	5
*	36464	5/8	7 1/2	10
*	*	5/8	7 1/2	5

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Cap Screws & Matching Components 3

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UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
36165	36465	⅝	8	5
36166	*	⅝	8½	5
36167	*	⅝	9	5

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
36170	36470	¾	1½	25
36171	36471	¾	1¾	25
36172	36472	¾	2	25
MP36172	MP36472	¾	2	10
36173	36473	¾	2¼	25
MP36173	*	¾	2¼	10
36174	36474	¾	2½	25
MP36174	MP36474	¾	2½	10
36175	36475	¾	2¾	25
MP36175	*	¾	2¾	10
36176	36476	¾	3	25
MP36176	MP36476	¾	3	10
36177	36477	¾	3¼	25
36178	36478	¾	3½	25
MP36178	MP36478	¾	3½	10
36179	36479	¾	3¾	25
36180	36480	¾	4	10
36181	36481	¾	4½	10
36182	36482	¾	5	10
36183	36483	¾	5½	10
36184	36484	¾	6	10
36185	36485	¾	6½	10
36186	36486	¾	7	5
36187	36487	¾	7½	5
36188	36488	¾	8	5
36189	*	¾	8½	5
36190	36490	¾	9	2
36191	36491	¾	10	2
36192	*	¾	10½	2

UNC Part No. TPI-9	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
36193	*	⅞	1½	10
36194	36494	⅞	2	10
36195	*	⅞	2¼	10
36196	36496	⅞	2½	10
36197	*	⅞	2¾	10
36198	36498	⅞	3	10
36200	36500	⅞	3½	10
36201	36501	⅞	4	10
36202	36502	⅞	4½	10
36203	36503	⅞	5	10
36204	36504	⅞	5½	10
36205	36505	⅞	6	10
36206	*	⅞	6½	5
36207	36507	⅞	7	2
36208	*	⅞	7½	2
36209	36509	⅞	8	2
36211	36511	⅞	9	2
36212	36512	⅞	10	2

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
36214	36514	1	2	10
36215	36515	1	2½	10
36217	36517	1	3	10
36219	36519	1	3½	10
36221	36521	1	4	10
36222	36522	1	4½	10
36223	36523	1	5	10

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
36224	36524	1	5½	10
36225	36525	1	6	10
36226	*	1	6½	2
36227	36527	1	7	2
36228	36528	1	7½	2
36229	36529	1	8	2
36231	36531	1	9	2
36232	36532	1	10	2
36233-12	*	1	12	2

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
36234	*	1⅛	3	5
36235	*	1⅛	3½	5
36236	*	1⅛	4	5
36238	*	1⅛	5	5
36239	*	1⅛	6	5

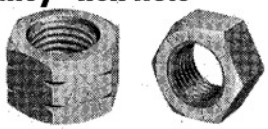
UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
36243	*	1¼	3	5
36245	*	1¼	4	2
36246	*	1¼	4½	2
36247	*	1¼	5	2
36248	*	1¼	6	2
36249	*	1¼	7	2
36250	*	1¼	8	2
36251	*	1¼	9	2
36252	*	1¼	10	2

UNC Part No. TPI-6	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
36265	*	1½	5	1
36266	*	1½	6	1
36267	*	1½	7	1
36268	*	1½	8	1

* Item not available.

†1″ – 14 is UNS Thread Series. A 1″ – 14 tapped hole is required for this size cap screw, or use a 1″ – 14 Bowmalloy® or Bowma-Grip® hex nut.

Bowmalloy® Hex Nuts



BOWMAN Unichrome PLATING™

- Made in USA
- **Medium carbon through-hardened steel** gives excellent assembly performance with Bowmalloy® cap screws. Eliminates "stripping-out" caused by inferior grade nuts.
- **Unichrome™ plating** provides corrosion resistance that is superior to commercial zinc plating.
- **ASME Class UN-2B thread fit** assures fully formed, precision-fitting threads that provide complete and continuous clamping force.
- **Chamfered first thread** allows easy thread engagement.
- **Smooth bearing surface** distributes load evenly for consistent clamping.
- **High design** gives additional threads and more wrenching surface for positive clamping properties and slip-free installation.
- **Concentric circle grain structure** gives added strength to prevent cracking and splitting for safe, long service life.
- **Use with Bowmalloy® cap screws.**
- UNC (USS) or UNF (SAE)
- Exceeds SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 180,000 psi proof load
- Use with Bowmalloy® cap screws

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
36601	¼-20	36611	¼-28	100
MP36601	¼-20	MP36611	¼-28	50
36602	5⁄16-18	36612	5⁄16-24	100
MP36602	5⁄16-18	MP36612	5⁄16-24	50
36603	⅜-16	36613	⅜-24	100
MP36603	⅜-16	MP36613	⅜-24	50
36604	7⁄16-14	36614	7⁄16-20	50
MP36604	7⁄16-14	MP36614	7⁄16-20	25
36605	½-13	36615	½-20	50
MP36605	½-13	MP36615	½-20	25
36606	9⁄16-12	36616	9⁄16-18	50
MP36606	9⁄16-12	MP36616	9⁄16-18	25
36607	⅝-11	36617	⅝-18	50
MP36607	⅝-11	MP36617	⅝-18	25
36608	¾-10	36618	¾-16	25
36609	⅞-9	36619	⅞-14	25
36610	1-8	36620‡	1-14	25
36610-11/8	1⅛-7	36620-11/8	1⅛-12	10
36610-11/4	1¼-7	36620-11/4	1¼-12	10
36610-11/2	1½-6	36620-11/2	1½-12	10
36610-13/4	1¾-5	*	*	5
36610-2	2-4-½	36620-2	2-12	5

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4 Cap Screws & Matching Components

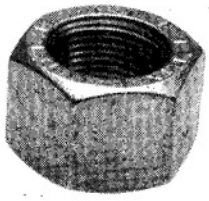
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Hex Head Cap Screws & Hex Nuts Technical Data

Size (In.)	Hex Head Cap Screws Wrench Size Width Across Flats (In.)	Hex Nuts & Bowma-Grip® Wrench Size Width Across Flats (In.)	Hex Nuts Thickness (In.) Max.	Hex Nuts Thickness (In.) Min.	Bowma-Grip® Hex Lock Nuts Thickness (In.) Max.	Bowma-Grip® Hex Lock Nuts Thickness (In.) Min
¼	7/16	7/16	0.226	0.212	0.226	0.212
5/16	½	½	0.273	0.258	0.273	0.258
3/8	9/16	9/16	0.337	0.320	0.337	0.320
7/16	5/8	11/16	0.385	0.365	0.385	0.365
½	¾	¾	0.448	.0427	0.448	0.427
9/16	13/16	7/8	0.496	0.473	0.496	0.473
5/8	15/16	15/16	0.559	0.535	0.559	0.535
¾	1 1/8	1 1/8	0.665	0.617	0.734	0.710
7/8	1 5/16	1 5/16	0.776	0.724	0.859	0.833
1	1 ½	1 ½	0.887	0.831	0.984	0.956
1 1/8	1 11/16	1 11/16	0.999	0.939	1.155	1.095
1 ¼	1 7/8	1 7/8	1.094	1.030	1.282	1.218
1 ½	2 ¼	2 ¼	1.317	1.245	1.536	1.464

Dura-Torq

Dura-Torq® Thick Hex Nuts



Dura-Torq Hex Nuts are thicker than standard nuts and are designed to be used specifically with stronger than Grade 8 Cap Screws. The thicker nut provides a larger wrenching area to eliminate wrench slippage. The cad & wax plating provides for an extremely consistent torque requirement which is significantly lower than required for a standard zinc plating.

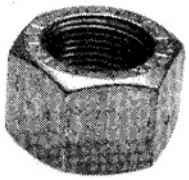
Specifications:

- Made in USA
- 180,000 psi proof load
- Cad & Wax plating

Part No.	Dia. TPI	UNC/UNF	Flats (In.)	Thick (In.)	Unit
C92448	¼-20	UNC	7/16	19/64	100
C92449	¼-28	UNF	7/16	19/64	100
C92450	5/16-18	UNC	½	21/64	100
C92451	5/16-24	UNF	½	21/64	100
C92452	3/8-16	UNC	9/16	25/64	100
C92453	3/8-24	UNF	9/16	25/64	100
C92454	7/16-14	UNC	11/16	7/16	50
C92455	7/16-20	UNF	11/16	7/16	50
C92456	½-13	UNC	¾	33/64	50
C92457	½-20	UNF	¾	33/64	50
C92458	9/16-12	UNC	7/8	37/64	25
C92459	9/16-18	UNF	7/8	37/64	25
C92460	5/8-11	UNC	15/16	21/32	25
C92461	5/8-18	UNF	15/16	21/32	25
C92462	¾-10	UNC	1 - 1/8	49/64	25
C92463	¾-16	UNF	1 - 1/8	49/64	25
C92464	7/8-9	UNC	1 5/16	7/8	10
C92465	7/8-14	UNF	1 5/16	7/8	10
C92466	1-8	UNC	1 ½	1 1/64	10
C92467	1-14	UNF	1 ½	1 1/64	10

Karalloy

Karalloy Plus Thick Hex Nuts



- Made in USA
- 20% thicker for better load distribution
- 180,000 PSI proof load
- Zinc and clear plating with wax
- Karalloy Plus nuts are to be used with Bowmalloy cap screws

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP81440	¼-20	KP81450	¼-28	100
KP81441	5/16-18	KP81451	5/16-24	100
KP81442	3/8-16	KP81452	3/8-24	100
KP81443	7/16-14	KP81453	7/16-20	50
KP81444	½-13	KP81454	½-20	50
KP81445	9/16-12		9/16-18	50
KP81446	5/8-11	KP81456	5/8-18	25
KP81447	¾-10	KP81457	¾-16	25
KP81448	7/8-9		7/8-14	25
KP81449	1-8		1-14	10

Bowmalloy

Barnes Logo Flat Washers

Bowmalloy Through-Hardened Flat Washers with Barnes logo Narrow (SAE) - Zinc Clear Plating



- Made in USA
- Rc 38-42 hardness
- Use with Bowmalloy, Bowma-Torq, Kartite, and Grade 5 Hex Head Cap Screws
- Marked with the Barnes Group logo and size for identification and traceability
- Unichrome plating
- Meets ANSI/ASME B18.22.1 specifications

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP80412	¼	9/32	5/8	.067 - .080	100
KP80413	5/16	11/32	11/16	.079 - .093	100
KP80414	3/8	13/32	13/16	.079 - .093	100
KP80415	7/16	15/32	59/64	.090 - .106	50
KP80416	½	17/32	1 1/16	.122 - .146	50
KP80417	9/16	19/32	1 3/16	.122 - .146	50
KP80418	5/8	21/32	1 5/16	.136 - .160	50
KP80419	¾	13/16	1 15/32	.136 - .160	50
KP80420	7/8	15/16	1 ¾	.136 - .160	25
KP80421	1	1 1/16	2	.136 - .160	25
KP80422	1 1/8	1 ¼	2 ¼	.136 - .160	25
KP80423	1 ¼	1 3/8	2 ½	.168 - .192	25
C712055	1 ½	1 5/8	3	.168 - .192	25

Bowmalloy Through-Hardened Flat Washers with Barnes logo Wide (USS) - Zinc Clear Plating

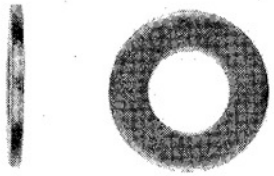


- Made in USA
- Rc 38-42 hardness
- Use with Bowmalloy, Bowma-Torq, Kartite, and Grade 5 Hex Head Cap Screws
- Marked with the Barnes Group logo and size for identification and traceability
- Unichrome plating
- Meets ANSI/ASME B18.22.1 specifications

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP80400	¼	5/16	¾	.067 - .080	100
KP80400-2	¼	5/16	¾	.067 - .080	250
KP80401	5/16	3/8	7/8	.083 - .104	100
KP80401-2	5/16	3/8	7/8	.083 - .104	250
KP80402	3/8	7/16	1	.083 - .104	100
KP80402-2	3/8	7/16	1	.083 - .104	250
KP80403	7/16	½	1 ¼	.090 - .106	50
KP80403-2	7/16	½	1 ¼	.090 - .106	250
KP80404	½	9/16	1 3/8	.122 - .146	50
KP80404-2	½	9/16	1 3/8	.122 -.146	250
KP80405	9/16	5/8	1 ½	.122 - .146	50
KP80406	5/8	11/16	1 ¾	.136 - .160	50
KP80406-2	5/8	11/16	1 ¾	.136 - .160	250
KP80407	¾	13/16	2	.148 - .177	50
KP80407-2	¾	13/16	2	.148 - .177	100
KP80408	7/8	15/16	2 ¼	.168 - .192	25
KP80409	1	1 1/16	2 ½	.168 - .192	25
KP80410	1 1/8	1 ¼	2 ¾	.168 - .192	25
KP80411	1 ¼	1 3/8	3	.168 - .192	25
C712054	1 ½	1 5/8	3 ½	.168 -.213	25

Bowmalloy® Through-Hardened Flat Washers – Zinc Yellow

Narrow (SAE)



- Made in USA
- Meets ANSI/ASME B18.22.1 1965 (R1981) specifications
- Carbon steel

Mini Pack Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
36701	¼	9/32	5/8	.067 – .080	100
36702	5/16	11/32	11/16	.067 – .080	100
36703	3/8	13/32	13/16	.067 – .080	100
36704	7/16	15/32	59/64	.067 – .080	50
36705	½	17/32	1 1/16	.108 – .121	50
36706	9/16	19/32	1 5/32	.108 – .121	25

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Cap Screws & Matching Components 5

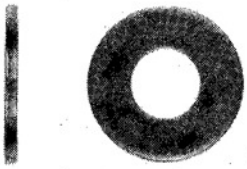
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Mini Pack Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
36707	5/8	21/32	1 5/16	.108 – .121	25
36708	3/4	13/16	1 15/32	.136 – .160	25
*	7/8	15/16	1 3/4	.136 – .160	–
*	1	1 1/16	2	.136 – .160	–
*	1 1/8	1 1/4	2 1/4	.136 – .160	–
*	1 1/4	1 3/8	2 1/2	.168 – .192	–
*	1 1/2	1 5/8	3	.168 – .192	–

Standard Pack Part No.	Unit	Bulk Pack Part No.	Unit	Bolt Size (In.)
39701	200	36711	1000	1/4
39702	200	36712	1000	5/16
39703	200	36713	500	3/8
39704	100	36714	500	7/16
39705	100	36715	200	1/2
39706	50	36716	200	9/16
39707	50	36717	150	5/8
39708	50	36718	125	3/4
39709	20	36719	80	7/8
39710	20	36720	60	1
39711	20	36721	50	1 1/8
39712	20	36722	35	1 1/4
*	–	36724	25	1 1/2

Bowmalloy® Through-Hardened Flat Washers – Zinc Yellow

Wide (USS)



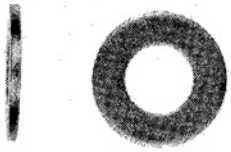
- Made in USA
- Meets ANSI/ASME B18.22.1 1965 (R1981) specifications
- Carbon steel

Mini Pack Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
36750	1/4	5/16	47/64	.067 - .080	150
36751	5/16	3/8	7/8	.083 - .104	100
36752	3/8	7/16	1	.083 - .104	75
36753	7/16	1/2	1 1/4	.083 - .104	50
36754	1/2	9/16	1 3/8	.112 - .132	25
36755	9/16	5/8	1 15/32	.112 - .132	25
36756	5/8	11/16	1 3/4	.136 - .160	15
36757	3/4	13/16	2	.148 - .177	10
*	7/8	15/16	2 1/4	.168 - .213	–
*	1	1 1/16	2 1/2	.168 - .213	–
*	1 1/8	1 1/4	2 3/4	.168 - .213	–
*	1 1/4	1 3/8	3	.168 - .213	–
*	1 1/2	1 5/8	3 1/2	.168 - .213	–

Standard Pack Part No.	Unit	Bulk Pack Part No.	Unit	Bolt Size (In.)
39750	200	36765	750	1/4
39751	200	36766	500	5/16
39752	200	36767	300	3/8
39753	100	36768	250	7/16
39754	100	36769	125	1/2
39755	50	36770	100	9/16
39756	50	36771	75	5/8
39757	50	*	–	3/4
39758	20	36773	35	7/8
39759	20	36774	30	1
39760	20	*	–	1 1/8
39761	20	*	–	1 1/4
*	–	36777	15	1 1/2

Bowmalloy® Heavy-Duty Flat Washers

Narrow (SAE)



- Made in USA
- Meets ANSI/ASME B18.22.1 Narrow dimensional specifications with extra thickness
- Carbon steel
- Through-hardened
- For rugged industrial or off-road applications
- Mechanical zinc plating with gold dichromate coating

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.- Max. (In.)	Unit
36701-HD	1/4	9/32	5/8	.080 - .100	125
MP36701-HD	1/4	9/32	5/8	.080 - .100	50
36702-HD	5/16	11/32	11/16	.080 - .100	100
MP36702-HD	5/16	11/32	11/16	.080 - .100	50
36703-HD	3/8	13/32	13/16	.100 - .140	75
MP36703-HD	3/8	13/32	13/16	.100 - .140	50
36704-HD	7/16	15/32	59/64	.100 - .140	60
MP36704-HD	7/16	15/32	59/64	.100 - .140	25
36705-HD	1/2	17/32	1 1/16	.188 - .219	25
36706-HD	9/16	19/32	1 3/16	.188 - .219	25
36707-HD	5/8	11/16	1 5/16	.219 - .250	15
36708-HD	3/4	13/16	1 15/32	.241 - .257	15

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.- Max. (In.)	Unit
36711-HD	1/4	9/32	5/8	.080 - .100	500
36712-HD	5/16	11/32	11/16	.080 - .100	500
36713-HD	3/8	13/32	13/16	.100 - .140	300
36714-HD	7/16	15/32	59/64	.100 - .140	300
36715-HD	1/2	17/32	1 1/16	.188 - .219	150
36716-HD	9/16	19/32	1 3/16	.188 - .219	125
36717-HD	5/8	11/16	1 5/16	.219 - .250	75
36718-HD	3/4	13/16	1 15/32	.241 - .257	75
36719-HD	7/8	15/16	1 3/4	.241 - .257	15
36720-HD	1	1 1/8	2	.241 - .257	15
36721-HD	1 1/8	1 1/4	2 1/4	.250 - .313	10
36722-HD	1 1/4	1 3/8	2 1/2	.250 - .313	10
36724-HD	1 1/2	1 5/8	3	.250 - .313	10

Bowmalloy® Lock Washers



- Made in USA
- Meets ANSI/ASME B18.21.1 specifications
- High alloy carbon steel
- Through-hardened
- Mechanical zinc plated with yellow dichromate finish
- Non-linking type

Part No.	Unit	Part No.	Unit	Bolt Size (In.)
KP66155	250	*	*	No. 6
KP66156	250	*	*	No. 8
KP66157	250	*	*	No. 10
KP66158	250	*	*	No. 12
39725	100	36725	200	1/4
39726	100	36726	200	5/16
39727	100	36727	200	3/8
39728	50	36728	200	7/16
39729	50	36729	200	1/2
39730	25	36730	100	9/16
39731	25	36731	100	5/8
39732	25	36732	50	3/4
39733	10	36733	50	7/8
39734	10	36734	50	1
39735	10	36735	25	1 1/8
39736	10	36736	25	1 1/4
*	*	36738	10	1 1/2

Bowma-Torq / Grade 8

Bowma-Torq®/Grade 8 Hex Head Cap Screws



- Made in USA
- UNC (USS) or UNF (SAE)
- Meets SAE J429 Grade 8 specifications
- Medium carbon alloy steel
- Through-hardened
- 150,000 psi minimum tensile strength
- "C" prefix item numbers have industry standard Grade 8 head mark

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
39000	39300	1/4	1/2	100
MP39000	MP39300	1/4	1/2	50
39001	C704003**	1/4	5/8	100
39002	39302	1/4	3/4	100
MP39002	MP39302	1/4	3/4	50
39003	C30487**	1/4	7/8	100
39004	39304	1/4	1	100
MP39004	MP39304	1/4	1	50
39005	39305	1/4	1 1/4	100
MP39005	MP39305	1/4	1 1/4	50

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UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
39006	39306	¼	1½	100
MP39006	MP39306	¼	1½	50
39007	39307	¼	1¾	100
MP39007	MP39307	¼	1¾	50
39008	39308	¼	2	100
MP39008	MP39308	¼	2	50
39009	*	¼	2¼	100
MP39009	*	¼	2¼	50
-	C89462**	¼	2¼	50
39010	39310	¼	2½	100
MP39010	MP39310	¼	2½	25
39011	*	¼	2¾	100
MP39011	*	¼	2¾	25
-	C89466**	¼	2¾	50
39012	39312	¼	3	50
MP39012	MP39312	¼	3	25
C704026**	-	¼	3¼	50
39013	C89470**	¼	3½	50
MP39013	-	¼	3½	25
C704030**	-	¼	3¾	50
39014	C89472**	¼	4	50
MP39014	-	¼	4	25
39015	*	¼	4½	50
MP39015	*	¼	4½	25
-	C89474**	¼	4½	25
C89475**	C89476**	¼	5	25
C89477**	C89478**	¼	5½	25
C89479**	C89480**	¼	6	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
39025	39325	5/16	½	100
MP39025	MP39325	5/16	½	50
39026	C704053**	5/16	⅝	100
39027	39327	5/16	¾	100
MP39027	MP39327	5/16	¾	50
39028	C30489**	5/16	⅞	100
39029	39329	5/16	1	100
MP39029	MP39329	5/16	1	50
39030	39330	5/16	1¼	100
MP39030	MP39330	5/16	1¼	50
39031	39331	5/16	1½	100
MP39031	MP39331	5/16	1½	50
39032	39332	5/16	1¾	100
MP39032	-	5/16	1¾	25
39033	39333	5/16	2	100
MP39033	MP39333	5/16	2	25
39034	39334	5/16	2¼	100
MP39034	-	5/16	2¼	25
39035	39335	5/16	2½	100
MP39035	MP39335	5/16	2½	25
39036	39336	5/16	2¾	100
MP39036	-	5/16	2¾	25
39037	39337	5/16	3	50
MP39037	MP39337	5/16	3	25
39038	*	5/16	3¼	50
39039	39339	5/16	3½	50
MP39039	-	5/16	3½	25
C704080**	*	5/16	3¾	50
39040	C89506**	5/16	4	50
MP39040	-	5/16	4	25
39040-1	*	5/16	4½	50
MP39040-1	*	5/16	4½	25
	C89508**	5/16	4½	25
39042	*	5/16	5	50
MP39042	*	5/16	5	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
*	C89510**	5/16	5	25
C89511**	C89512**	5/16	5½	25
C89513**	C89514**	5/16	6	25

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
39050	39350	⅜	½	100
C704102**	*	⅜	⅝	100
39052	39352	⅜	¾	100
MP39052	MP39352	⅜	¾	25
39053	C30491**	⅜	⅞	100
39054	39354	⅜	1	100
MP39054	MP39354	⅜	1	25
39055	39355	⅜	1¼	100
MP39055	MP39355	⅜	1¼	25
39056	39356	⅜	1½	100
MP39056	MP39356	⅜	1½	25
39057	39357	⅜	1¾	100
MP39057	MP39357	⅜	1¾	25
39058	39358	⅜	2	50
MP39058	MP39358	⅜	2	25
39059	39359	⅜	2¼	50
MP39059	-	⅜	2¼	25
39060	39360	⅜	2½	50
MP39060	MP39360	⅜	2½	25
39061	39361	⅜	2¾	50
MP39061	-	⅜	2¾	10
39062	39362	⅜	3	50
MP39062	MP39062	⅜	3	10
39063	*	⅜	3¼	50
39064	39364	⅜	3½	50
MP39064	MP39364	⅜	3½	10
C704130**	*	⅜	3¾	50
39066	39366	⅜	4	25
MP39066	MP39366	⅜	4	10
39067	39367	⅜	4½	25
MP39067	-	⅜	4½	10
39068	39368	⅜	5	25
MP39068	MP39368	⅜	5	10
39069	C89544**	⅜	5½	25
MP39069	-	⅜	5½	10
39070	C89546**	⅜	6	25
MP39070	-	⅜	6	10
39071	*	⅜	6½	10
39072	*	⅜	7	10
C704146**	*	⅜	7½	25
39074	*	⅜	8	10

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
39077	39377	7/16	¾	50
39079	39379	7/16	1	50
MP39079	MP39379	7/16	1	25
39080	39380	7/16	1¼	50
MP39080	MP39380	7/16	1¼	25
39081	39381	7/16	1½	50
MP39081	MP39381	7/16	1½	25
39082	39382	7/16	1¾	50
MP39082	-	7/16	1¾	25
39083	39383	7/16	2	50
MP39083	MP39383	7/16	2	25
39084	39384	7/16	2¼	50
39085	39385	7/16	2½	50
MP39085	MP39385	7/16	2½	10
39086	39386	7/16	2¾	25
39087	39387	7/16	3	25
MP39087	MP39387	7/16	3	10
C704172**	*	7/16	3¼	25

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
39089	39389	7/16	3½	25
MP39089	MP39389	7/16	3½	10
C704176**	*	7/16	3¾	25
39091	39391	7/16	4	25
MP39091	MP39391	7/16	4	10
39092	C89570**	7/16	4½	25
MP39092	*	7/16	4½	10
39093	*	7/16	5	25
MP39093	C89572**	7/16	5	10
C89573**	C89574**	7/16	5½	10
39095	*	7/16	6	25
MP39095	C89576**	7/16	6	10
C704188**	*	7/16	6½	10
C704190**	*	7/16	7	10
C704192**	*	7/16	7½	10
C704194**	*	7/16	8	10

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
39102	C704201**	½	¾	50
39104	39404	½	1	50
MP39104	MP39404	½	1	25
39105	39405	½	1¼	50
MP39105	MP39405	½	1¼	25
39106	39406	½	1½	50
MP39106	MP39406	½	1½	25
39107	39407	½	1¾	50
MP39107	MP39407	½	1¾	25
39108	39408	½	2	50
MP39108	MP39408	½	2	25
39109	39409	½	2¼	25
39110	39410	½	2½	25
MP39110	MP39410	½	2½	10
39111	39411	½	2¾	25
39112	39412	½	3	25
MP39112	MP39412	½	3	10
39113	*	½	3¼	25
39114	39414	½	3½	25
MP39114	MP39414	½	3½	10
C704226**	*	½	3¾	25
39116	39416	½	4	25
MP39116	MP39416	½	4	10
39117	39417	½	4½	25
MP39117	-	½	4½	10
39118	39418	½	5	25
MP39118	MP39418	½	5	10
39119	*	½	5½	25
MP39119	*	½	5½	10
*	C89604**	½	5½	10
39120	39420	½	6	25
MP39120	-	½	6	10
39121	C704239**	½	6½	10
39122	C704241**	½	7	10
39123	*	½	7½	10
39124	*	½	8	10
C704248**	*	½	9	10
C704252**	*	½	10	10

UNC Part No. TPI-12	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
39129	39429	9/16	1	25
MP39129	MP39429	9/16	1	5
39130	C89610**	9/16	1¼	25
39131	39431	9/16	1½	25
MP39131	MP39431	9/16	1½	5
39132	C89614**	9/16	1¾	25
39133	39433	9/16	2	25

Continued on next page

GRAYSON INDUSTRIES, INC.

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Cap Screws & Matching Components

Continued from previous page

UNC Part No. TPI-12	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
MP39133	MP39433	5/16	2	5
C89617**	C89618**	5/16	2¼	25
39135	39435	5/16	2½	10
MP39135	MP39435	5/16	2½	5
C89621**	C89622**	5/16	2¾	10
39137	39437	5/16	3	10
MP39137	MP39437	5/16	3	5
39139	39439	5/16	3½	10
39141	39441	5/16	4	10
C89629**	C89630**	5/16	4½	10
39143	C89632**	5/16	5	10
C89633**	C89634**	5/16	5½	10
C89635**	C89636**	5/16	6	10

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
39145	39445	5/8	1	25
39146	39446	5/8	1¼	25
39147	39447	5/8	1½	25
MP39147	MP39447	5/8	1½	10
39148	39448	5/8	1¾	25
39149	39449	5/8	2	25
MP39149	MP39449	5/8	2	10
39150	39450	5/8	2¼	25
39151	39451	5/8	2½	25
MP39151	MP39451	5/8	2½	10
39152	39452	5/8	2¾	25
MP39152	-	5/8	2¾	10
39153	39453	5/8	3	25
MP39153	MP39453	5/8	3	10
39154	*	5/8	3¼	25
39155	39455	5/8	3½	25
MP39155	MP39455	5/8	3½	10
C704422**	*	5/8	3¾	10
39157	39457	5/8	4	25
MP39157	MP39457	5/8	4	10
39158	39458	5/8	4½	25
MP39158	MP39458	5/8	4½	10
39159	39459	5/8	5	25
MP39159	MP39459	5/8	5	10
39160	39460	5/8	5½	25
MP39160	-	5/8	5½	10
39161	39461	5/8	6	25
MP39161	MP39461	5/8	6	10
C704434**	C704435**	5/8	6½	10
39163	*	5/8	7	10
*	C89664**	5/8	7	5
C704438**	*	5/8	7½	5
39165	C89666**	5/8	8	5
39167	C30494**	5/8	9	5
39168	*	5/8	10	5

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
39169	*	¾	1	25
39169-1	*	¾	1¼	25
39170	39470	¾	1½	25
39171	*	¾	1¾	25
*	C89670**	¾	1¾	10
39172	39472	¾	2	25
MP39172	MP39472	¾	2	10
39173	39473	¾	2¼	25
MP39173	-	¾	2¼	10
39174	39474	¾	2½	25
MP39174	MP39474	¾	2½	10
39175	*	¾	2¾	25
MP39175	*	¾	2¾	10

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
*	C89678**	¾	2¾	10
39176	39476	¾	3	25
MP39176	MP39476	¾	3	10
39177	*	¾	3¼	25
39178	39478	¾	3½	25
MP39178	MP39478	¾	3½	10
C704522**	*	¾	3¾	10
39180	39480	¾	4	10
39181	39481	¾	4½	10
39182	39482	¾	5	10
39183	C89690**	¾	5½	10
39184	39484	¾	6	10
39185	*	¾	6½	10
*	C704535**	¾	6½	5
39186	39486	¾	7	5
C704538**	*	¾	7½	5
39188	C89696**	¾	8	5
39190	*	¾	9	2
*	C30498**	¾	9	5
39191	*	¾	10	2
*	C704549**	¾	10	5

UNC Part No. TPI-9	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
39193	*	⅞	1½	10
39194	39494	⅞	2	10
C89699**	C89700**	⅞	2¼	10
39196	39496	⅞	2½	10
C89703**	C89704**	⅞	2¾	5
39198	39498	⅞	3	10
39200	39500	⅞	3½	10
39201	39501	⅞	4	10
39202	39502	⅞	4½	10
39203	39503	⅞	5	10
39204	*	⅞	5½	10
*	C89716**	⅞	5½	5
39205	39505	⅞	6	10
C704630**	*	⅞	6½	5
39207	*	⅞	7	2
39209	*	⅞	8	2
39211	*	⅞	9	2

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
C704700**	*	1	1½	10
39214	39514	1	2	10
C89727**	*	1	2¼	5
39216	*	1	2½	10
*	C89730**	1	2½	5
C89731**	C89732**	1	2¾	5
39217	39517	1	3	10
C704714**	*	1	3¼	5
39219	39519	1	3½	10
39221	39521	1	4	10
39222	*	1	4½	10
*	C89740**	1	4½	5
39223	39523	1	5	10
39224	*	1	5½	10
*	C89744**	1	5½	5
39225	39525	1	6	10
39227	*	1	7	2
*	C704733**	1	7	5
*	C704745**	1	10	5
39229	*	1	8	2

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
C704750**	*	1⅛	2½	5
39230**	*	1⅛	3	5
39231**	*	1⅛	3½	5
39232**	*	1⅛	4	5
39233**	*	1⅛	4½	5
39234**	*	1⅛	5	5
39235**	*	1⅛	5½	5
39236**	*	1⅛	6	5
39237**	*	1⅛	6½	5
39238**	*	1⅛	7	5

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
39240**	*	1¼	3	5
39241**	*	1¼	3½	5
39242**	*	1¼	4	5
39243**	*	1¼	4½	5
39244**	*	1¼	5	2
39245**	*	1¼	5½	2
39246**	*	1¼	6	2
39247**	*	1¼	6½	2
39248**	*	1¼	7	2
39249**	*	1¼	7½	2
39250**	*	1¼	8	2
39251**	*	1¼	8½	2
39252**	*	1¼	9	2
39254**	*	1¼	10	2

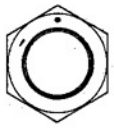
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† 1"-14 is UNS Thread Series. A 1"-14 tapped hole is required for this size cap screw, or use a Bowma-Torq®/Grade 8 Hex Nut or Bowma-Grip® Hex Lock Nut.

Grade 8 Finished Hex Nuts

Made in U.S.A.



BOWMAN Gold Unichrome PLATING™

- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 150,000 psi proof load
- Designed for use with Grade 8 cap screws

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
39560	¼-20	39571	¼-28	100
39562	5/16-18	39572	5/16-24	100
39563	⅜-16	39573	⅜-24	100
39564	7/16-14	39574	7/16-20	50
39565	½-13	39575	½-20	50
39566	9/16-12	39576	9/16-18	50
39567	⅝-11	39577	⅝-18	50
39568	¾-10	39578	¾-16	25
39569	⅞-9	39579	⅞-14	25
39570	1-8	39580	1-14	25
C714020	1⅛-7	C714025	1⅛-12	10
C714022	1¼-7	C714027	1¼-12	10

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Grade 8 Finished Hex Nuts



- **High strength, medium carbon, quenched & tempered steel** gives superior assembly performance with Bowma-Torq®/Grade 8 cap screws. Eliminates "stripping out" caused by inferior grade nuts.
- **Gold unichrome™ plating** provides corrosion resistance that is superior to standard industrial platings.
- **ANSI class 2B thread fit** assures fully formed, precision fitting threads that provide complete and continuous clamping force.
- **Meets association specifications**
- **ANSI 18.2.2**
- **SAE J995 Grade 8**
- **Chamfered first thread** for proper seating and easy thread engagement.
- **Precision double chamfered hex** prevents interference of parent material or washer with bearing surface without limiting wrenching area.
- **Smooth bearing surface** distributes load evenly for constant, consistent clamping.
- **Concentric circle grain design** gives added strength to prevent cracking and splitting for safe, long service life.
- **Recommended for multi-purpose use** with Bowma-Torq®/ Grade 8 cap screws and other fasteners rated SAE Grade 8.

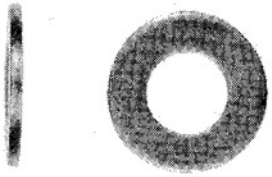
BOWMAN Gold Unichrome PLATING™

- UNC (USS) or UNF (SAE)
- Exceeds SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 150,000 psi proof load

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
39601	1/4-20	39611	1/4-28	100
MP39601	1/4-20	MP39611	1/4-28	50
39602	5/16-18	39612	5/16-24	100
MP39602	5/16-18	MP39612	5/16-24	50
39603	3/8-16	39613	3/8-24	100
MP39603	3/8-16	MP39613	3/8-24	50
39604	7/16-14	39614	7/16-20	50
MP39604	7/16-14	MP39614	7/16-20	25
39605	1/2-13	39615	1/2-20	50
MP39605	1/2-13	MP39615	1/2-20	25
39606	9/16-12	39616	9/16-18	50
MP39606	9/16-12	MP39616	9/16-18	25
39607	5/8-11	39617	5/8-18	50
MP39607	5/8-11	MP39617	5/8-18	25
39608	3/4-10	39618	3/4-16	25
39609	7/8-9	39619	7/8-14	25
39610	1-8	39620	1-14	25
39610-11/8	1 1/8-7	39620-11/8	1 1/8-12	10
39610-11/4	1 1/4-7	39620-11/4	1 1/4-12	10

Bowmalloy® Through-Hardened Flat Washers – Zinc Yellow

Narrow (SAE)



BOWMAN Gold Unichrome PLATING™

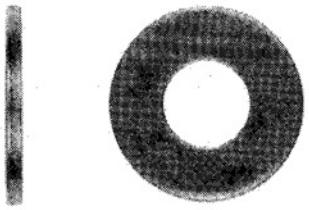
- Made in USA
- Meets ANSI/ASME B18.22.1 1965 (R1981) specifications
- Carbon steel

Mini Pack Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
36701	1/4	9/32	5/8	.067 – .080	100
36702	5/16	11/32	1 1/16	.067 – .080	100
36703	3/8	13/32	1 3/16	.067 – .080	100
36704	7/16	15/32	59/64	.067 – .080	50
36705	1/2	17/32	1 1/16	.108 – .121	50
36706	9/16	19/32	1 5/32	.108 – .121	25
36707	5/8	21/32	1 5/16	.108 – .121	25
36708	3/4	13/16	1 15/32	.136 – .160	25
*	7/8	15/16	1 3/4	.136 – .160	–
*	1	1 1/16	2	.136 – .160	–
*	1 1/8	1 1/4	2 1/4	.136 – .160	–
*	1 1/4	1 3/8	2 1/2	.168 – .192	–
*	1 1/2	1 5/8	3	.168 – .192	–

Standard Pack Part No.	Unit	Bulk Pack Part No.	Unit	Bolt Size (In.)
39701	200	36711	1000	1/4
39702	200	36712	1000	5/16
39703	200	36713	500	3/8
39704	100	36714	500	7/16
39705	100	36715	200	1/2
39706	50	36716	200	9/16
39707	50	36717	150	5/8
39708	50	36718	125	3/4
39709	20	36719	80	7/8
39710	20	36720	60	1
39711	20	36721	50	1 1/8
39712	20	36722	35	1 1/4
*	–	36724	25	1 1/2

Bowmalloy® Through-Hardened Flat Washers – Zinc Yellow

Wide (USS)



BOWMAN Gold Unichrome PLATING™

- Made in USA
- Meets ANSI/ASME B18.22.1 1965 (R1981) specifications
- Carbon steel

Mini Pack Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
36750	1/4	5/16	47/64	.067 - .080	150
36751	5/16	3/8	7/8	.083 - .104	100
36752	3/8	7/16	1	.083 - .104	75
36753	7/16	1/2	1 1/4	.083 - .104	50
36754	1/2	9/16	1 3/8	.112 - .132	25
36755	9/16	5/8	1 15/32	.112 - .132	25
36756	5/8	11/16	1 3/4	.136 - .160	15
36757	3/4	13/16	2	.148 - .177	10
*	7/8	15/16	2 1/4	.168 - .213	–
*	1	1 1/16	2 1/2	.168 - .213	–
*	1 1/8	1 1/4	2 3/4	.168 - .213	–
*	1 1/4	1 3/8	3	.168 - .213	–
*	1 1/2	1 5/8	3 1/2	.168 - .213	–

Standard Pack Part No.	Unit	Bulk Pack Part No.	Unit	Bolt Size (In.)
39750	200	36765	750	1/4
39751	200	36766	500	5/16
39752	200	36767	300	3/8
39753	100	36768	250	7/16
39754	100	36769	125	1/2
39755	50	36770	100	9/16
39756	50	36771	75	5/8
39757	50	*	–	3/4
39758	20	36773	35	7/8
39759	20	36774	30	1
39760	20	*	–	1 1/8
39761	20	*	–	1 1/4
*	–	36777	15	1 1/2

Bowmalloy® Lock Washers



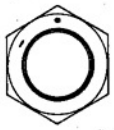
- Made in USA
- Meets ANSI/ASME B18.21.1 specifications
- High alloy carbon steel
- Through-hardened
- Mechanical zinc plated with yellow dichromate finish
- Non-linking type

Continued on next page

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Cap Screws & Matching Components 9

Grade 8 Hex Nuts — Zinc Clear — Import



- Meets SAE J995 proof load specification
- 150,000 PSI proof load
- Zinc clear Unichrome plating

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP80530	¼-20	KP80542	¼-28	100
KP80530-2	¼-20			250
KP80531	5/16-18	KP80543	5/16-24	100
KP80531-2	5/16-18			250
KP80532	⅜-16	KP80544	⅜-24	100
KP80532-2	⅜-16			250
KP80533	7/16-14	KP80545	7/16-20	50
KP80533-2	7/16-14			100
KP80534	½-13	KP80546	½-20	50
KP80534-2	½-13			100
KP80535	9/16-12	KP80547	9/16-18	50
KP80536	⅝-11	KP80548	⅝-18	25
KP80536-2	⅝-11			100
KP80537	¾-10	KP80549	¾-16	25
KP80538	⅞-9	KP80550	⅞-14	25
KP80539	1-8	KP80551	1-14	25
KP80540	1⅛-7	KP80552	1⅛-12	10
KP80541	1¼-7	KP80553	1¼-12	10
✦CD557183	1½-6	*	*	10

✦Canada only

Dimensions of Kar-Tite Grade 8 Hex Nuts

Bolt Size	Flats	Height
¼	7/16	7/32
5/16	½	17/64
⅜	9/16	21/64
7/16	11/16	⅜
½	¾	7/16
9/16	⅞	31/64
⅝	15/16	35/64
¾	1⅛	41/64
⅞	1 5/16	¾
1	1½	55/64
1⅛	1 11/16	31/32
1¼	1⅞	1 1/16
1½	2¼	1 5/16

Barnes Logo Flat Washers

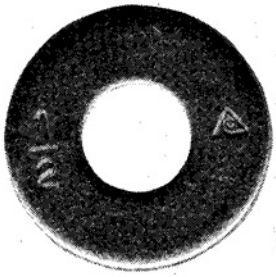
Bowmalloy Through-Hardened Flat Washers with Barnes logo Narrow (SAE) - Zinc Clear Plating



- Made in USA
- Rc 38-42 hardness
- Use with Bowmalloy, Bowma-Torq, Kartite, and Grade 5 Hex Head Cap Screws
- Marked with the Barnes Group logo and size for identification and traceability
- Unichrome plating
- Meets ANSI/ASME B18.22.1 specifications

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP80412	¼	9/32	⅝	.067 - .080	100
KP80413	5/16	11/32	11/16	.079 - .093	100
KP80414	⅜	13/32	13/16	.079 - .093	100
KP80415	7/16	15/32	59/64	.090 - .106	50
KP80416	½	17/32	1 1/16	.122 - .146	50
KP80417	9/16	19/32	1 3/16	.122 - .146	50
KP80418	⅝	21/32	1 5/16	.136 - .160	50
KP80419	¾	13/16	1 15/32	.136 - .160	50
KP80420	⅞	15/16	1¾	.136 - .160	25
KP80421	1	1 1/16	2	.136 - .160	25
KP80422	1⅛	1¼	2¼	.136 - .160	25
KP80423	1¼	1⅜	2½	.168 - .192	25
C712055	1½	1⅝	3	.168 - .192	25

Bowmalloy Through-Hardened Flat Washers with Barnes logo Wide (USS) - Zinc Clear Plating

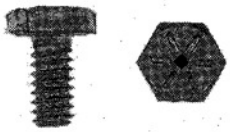


- Made in USA
- Rc 38-42 hardness
- Use with Bowmalloy, Bowma-Torq, Kartite, and Grade 5 Hex Head Cap Screws
- Marked with the Barnes Group logo and size for identification and traceability
- Unichrome plating
- Meets ANSI/ASME B18.22.1 specifications

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP80400	¼	5/16	¾	.067 - .080	100
KP80400-2	¼	5/16	¾	.067 - .080	250
KP80401	5/16	⅜	⅞	.083 - .104	100
KP80401-2	5/16	⅜	⅞	.083 - .104	250
KP80402-2	⅜	7/16	1	.083 - .104	250
KP80403	7/16	½	1¼	.090 - .106	50
KP80403-2	7/16	½	1¼	.090 - .106	250
KP80404	½	9/16	1⅜	.122 - .146	50
KP80404-2	½	9/16	1⅜	.122 - .146	250
KP80405	9/16	⅝	1½	.122 - .146	50
KP80406	⅝	11/16	1¾	.136 - .160	50
KP80406-2	⅝	11/16	1¾	.136 - .160	250
KP80407	¾	13/16	2	.148 - .177	50
KP80407-2	¾	13/16	2	.148 - .177	100
KP80408	⅞	15/16	2¼	.168 - .192	25
KP80409	1	1 1/16	2½	.168 - .192	25
KP80410	1⅛	1¼	2¾	.168 - .192	25
KP80411	1¼	1⅜	3	.168 - .192	25
C712054	1½	1⅝	3½	.168 - .213	25

Grade 8 - Black

Grade 8 Hex Head Cap Screws (Non-Plated)



◆ Indicates manufacturer's identification symbol

- UNC (USS) or UNF (SAE)
- Meets SAE J429 Grade 8 specifications
- Medium carbon alloy steel
- Through-hardened
- 150,000 psi minimum tensile strength

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
99000	C703001	¼	½	100
MP99000	MPC703001	¼	½	50
C703002	*	¼	⅝	100
99002	C703005	¼	¾	100
MP99002	MPC703005	¼	¾	50
C703006	*	¼	⅞	100
99004	C703009	¼	1	100
MP99004	MPC703009	¼	1	50
99005	C703011	¼	1¼	100
99006	C703013	¼	1½	100
MP99006	MPC703013	¼	1½	50
99007	C703015	¼	1¾	100
99008	C703017	¼	2	100
MP99008	MPC703017	¼	2	50
C703018	C703019	¼	2¼	50
99010	*	¼	2½	100
*	C703021	¼	2½	50
99011	*	¼	2¾	100
*	C703023	¼	2¾	50
99012	*	¼	3	100
*	C703025	¼	3	50
C703026	C703027	¼	3¼	50
99014	*	¼	3½	100
*	C703029	¼	3½	50
C703030	C703031	¼	3¾	50
99016	C703033	¼	4	50
99017	C703035	¼	4½	50
99018	C703037	¼	5	50

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UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
C703038	C703039	¼	5½	50
99019	*	¼	6	50
*	C703041	¼	6	25

UNC (USS) Part No. TPI-18	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
C703050	C703051	5/16	½	100
C703052	*	5/16	5/8	100
99027	C703055	5/16	¾	100
MP99027	MPC703055	5/16	¾	50
C703056	*	5/16	7/8	100
99029	C703059	5/16	1	100
MP99029	MPC703059	5/16	1	50
99030	C703061	5/16	1¼	100
99031	C703063	5/16	1½	100
MP99031	MPC703063	5/16	1½	50
C703064	C703065	5/16	1¾	100
99033	C703067	5/16	2	100
MP99033	MPC703067	5/16	2	25
C703068	C703069	5/16	2¼	50
99035	*	5/16	2½	100
MP99035	MPC703071	5/16	2½	25
*				

UNC (USS) Part No. TPI-16	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
99064	C703129	3/8	3½	50
*	99489	3/8	3¾	25
C703130	*	3/8	3¾	50
*	99489-B	3/8	3¾	325
99066	*	3/8	4	25
*	C703133	3/8	4	50
99067	C703135	3/8	4½	25
99068	C703137	3/8	5	25
C703138	C703139	3/8	5½	25
C703140	C703141	3/8	6	25
123690	*	3/8	6½	10
C703144	*	3/8	7	25
KP56354	*	3/8	7½	25
C703148	*	3/8	8	25

UNC (USS) Part No. TPI-14	UNF (SAE) Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
C703150	C703151	7/16	¾	100
C703152	*	7/16	7/8	100
99081-1	C703155	7/16	1	100
MP99081-1	MPC703155	7/16	1	25
99081-2	*	7/16	1¼	100
*	C703157	7/16	1¼	50

UNC (USS) Part No. TPI-13	UNF (SAE) Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
99115	C703227	½	3¾	25
99116	C703229	½	4	25
99117	C703231	½	4½	25
99118	99501	½	5	25
99119	99502	½	5½	25
99120	C703237	½	6	25
KP45584	99503	½	6½	10
C703240	99504	½	7	10
KP45586	*	½	7½	10
C703244	*	½	8	10
C703246	*	½	8½	10
C703248	*	½	9	10

UNC (USS) Part No. TPI-12	UNF (SAE) Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
C703300	C703301	9/16	1	50
C703302	C703303	9/16	1¼	50
C703304	C703305	9/16	1½	50
MPC703304	MPC703305	9/16	1½	5
C703306	C703307	9/16	1¾	50
99133	*	9/16	2	25
*	C703309	9/16	2	50
MP99133	MPC703309	9/16	2	5

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Cap Screws & Matching Components 11

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UNC (USS) Part No. TPI-11	UNF (SAE) Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
*	¤98161	⅝	7½	1
99165	*	⅝	8	10
*	¤98162	⅝	8	1
¤98013	¤98162-1	⅝	8½	1
C703444	*	⅝	9	10
C703446	*	⅝	9½	10
KP45617	*	⅝	10	10
¤98000-1	¤98150-1	⅝	10½	1
¤98001	¤98151	⅝	11	1
¤98001-1	¤98151-1	⅝	11½	1
¤98002	¤98152	⅝	12	1
¤98002-1	¤98152-1	⅝	12½	1
¤98003	¤98153	⅝	13	1
¤98003-1	¤98153-1	⅝	13½	1
¤98004	*	⅝	14	1
¤98004-1	¤98154-1	⅝	14½	1
¤98005	¤98155	⅝	15	1
¤98005-1	¤98155-1	⅝	15½	1
¤98006	¤98156	⅝	16	1
¤98006-1	¤98156-1	⅝	16½	1
¤98007	¤98157	⅝	17	1
¤98007-1	¤98157-1	⅝	17½	1
¤98008	¤98158	⅝	18	1
¤98008-1	¤98158-1	⅝	18½	1
¤98009	¤98159	⅝	19	1
¤98009-1	¤98159-1	⅝	19½	1
¤98010	¤98160	⅝	20	1

UNC (USS) Part No. TPI-10	UNF (SAE) Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
C703500	*	¾	1	50
*	KP46619	¾	1	25
99169	*	¾	1¼	25
*	C703503	¾	1¼	50
99170	C703505	¾	1½	25
C703506	C703507	¾	1¾	25
99172	C703509	¾	2	25
MP99172	MPC703509	¾	2	10
C703510	C703511	¾	2¼	25
99174	C703513	¾	2½	25
99175	99510	¾	2¾	25
99176	C703517	¾	3	25
MP99176	MPC703517	¾	3	10
C703518	C703519	¾	3¼	25
99178	C703521	¾	3½	25
C703522	C703523	¾	3¾	25
99180	C703525	¾	4	25
*	MPC703525	¾	4	10
99181	C703527	¾	4½	25
99182	*	¾	5	25
*	C703529	¾	5	10
99183	99511	¾	5½	25
99184	*	¾	6	25
*	C703533	¾	6	10
99185	*	¾	6½	10
99186	*	¾	7	10
99187	99512	¾	7½	10
99188	99513	¾	8	10
99189	*	¾	8½	5
*	¤98177	¾	8½	1
C703544	99514	¾	9	5
C703546	99515	¾	9½	5
¤98027	*	¾	9½	1
C703548	99516	¾	10	5
¤98015	*	¾	10	1
¤98015-1	¤98165-1	¾	10½	1
¤98016	¤98166	¾	11	1
*	¤98167-1	¾	11½	1

UNC (USS) Part No. TPI-10	UNF (SAE) Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
¤98017	¤98168	¾	12	1
¤98017-1	¤98168-1	¾	12½	1
¤98018	¤98169	¾	13	1
¤98018-1	*	¾	13½	1
¤98019	*	¾	14	1
*	¤98170-1	¾	14½	1
¤98020	¤98171	¾	15	1
¤98020-1	¤98171-1	¾	15½	1
¤98021	¤98172	¾	16	1
¤98021-1	¤98172-1	¾	16½	1
¤98022	*	¾	17	1
¤98022-1	¤98173-1	¾	17½	1
¤98023	¤98174	¾	18	1
¤98023-1	¤98174-1	¾	18½	1
¤98024	¤98175	¾	19	1
¤98024-1	¤98175-1	¾	19½	1
¤98025	¤98176	¾	20	1

UNC (USS) Part No. TPI-9	UNF (SAE) Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
C703600	C703601	⅞	1½	10
C703602	C703603	⅞	1¾	10
99196	*	⅞	2	25
*	C703605	⅞	2	10
C703606	C703607	⅞	2¼	25
99197	*	⅞	2½	25
*	C703609	⅞	2½	10
C703610	C703611	⅞	2¾	25
99198	*	⅞	3	25
*	C703613	⅞	3	10
121810	*	⅞	3¼	25
*	C703615	⅞	3¼	10
99199	*	⅞	3½	25
*	C703617	⅞	3½	10
C703618	C703619	⅞	3¾	10
99200	*	⅞	4	25
*	C703621	⅞	4	10
99201	99520	⅞	4½	25
99202	*	⅞	5	25
*	C703625	⅞	5	10
99203	99521	⅞	5½	10
99204	*	⅞	6	10
*	C703629*	⅞	6	5
*	99522	⅞	6½	10
¤98039	*	⅞	6½	1
99206	99523	⅞	7	5
99208	99524	⅞	8	5
*	¤98191-1	⅞	7½	1
¤98041	¤98192-1	⅞	8½	1
C703640	99525	⅞	9	5
C703642	*	⅞	9½	5
99211	*	⅞	10	5
*	¤98179	⅞	10	1
¤98028-1	*	⅞	10½	1
¤98029	¤98180	⅞	11	1
¤98030	¤98181	⅞	12	1
*	¤98181-1	⅞	12½	1
¤98031	¤98182	⅞	13	1
¤98031-1	¤98182-1	⅞	13½	1
¤98032	*	⅞	14	1
*	¤98183-1	⅞	14½	1
¤98033	¤98184	⅞	15	1
¤98033-1	¤98184-1	⅞	15½	1
¤98034	¤98185	⅞	16	1
¤98034-1	¤98185-1	⅞	16½	1
¤98035	¤98186	⅞	17	1
¤98035-1	¤98186-1	⅞	17½	1
*	¤98187	⅞	18	1

UNC (USS) Part No. TPI-9	UNF (SAE) Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
¤98036-1	¤98187-1	⅞	18½	1
¤98037	¤98188	⅞	19	1
¤98037-1	¤98188-1	⅞	19½	1
¤98038	¤98189	⅞	20	1

UNC (USS) Part No. TPI-8	UNF (SAE) Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
C703700	*	1	1½	10
99216	C703705	1	2	10
*	135070	1	2¼	10
KP45645	*	1	2¼	20
99217	99526	1	2½	10
99218	99527	1	2¾	10
99219	C703713	1	3	10
KP45647	*	1	3¼	10
99220	C703717	1	3½	10
122330	*	1	3¾	10
99221	C703721	1	4	10
99222	*	1	4½	10
*	C703723	1	4½	5
99223	*	1	5	10
*	C703725	1	5	5
99224	99528	1	5½	10
99225	*	1	6	10
*	C703729	1	6	5
99226	*	1	6½	10
*	¤98205	1	6½	1
99227	99529	1	7	10
99228	*	1	7½	10
¤98055	¤98206-1	1	7½	1
99229	*	1	8	10
*	¤98207	1	8	1
99230	*	1	8½	10
*	¤98207-1	1	8½	1
99231	99531	1	9	10
¤98057	¤98208	1	9	1
99231-1	99531-1	1	9½	10
¤98057-1	¤98208-1	1	9½	1
99232	*	1	10	10
*	99532	1	10	5
¤98043-1	¤98294-1	1	10½	1
¤98044	¤98195	1	11	1
¤98044-1	*	1	11½	1
¤98045	¤98196	1	12	1
¤98045-1	¤98196-1	1	12½	1
¤98046	¤98197	1	13	1
¤98046-1	¤98197-1	1	13½	1
¤98047	¤98198	1	14	1
¤98047-1	¤98198-1	1	14½	1
¤98048	*	1	15	1
¤98048-1	¤98199-1	1	15½	1
*	¤98200	1	16	1
¤98049-1	¤98200-1	1	16½	1
¤98050	¤98201	1	17	1
*	¤98201-1	1	17½	1
¤98051	¤98202	1	18	1
¤	¤98202-1	1	18½	1
¤98052	¤98203	1	19	1
¤98052-1	¤98203-1	1	19½	1
¤98053	¤98204	1	20	1

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UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
C703750	*	1⅛	2½	5
C703754	*	1⅛	3	5
C703758	*	1⅛	3½	5
99236	*	1⅛	4	10
*	*	1⅛	4	5
C703764	*	1⅛	4½	5
99238	*	1⅛	5	5
99239	*	1⅛	5½	2
*	*	1⅛	5½	5
C703770	*	1⅛	6	5
99240	*	1⅛	6½	2
99241	*	1⅛	7	2
99242	*	1⅛	7½	2
99243	*	1⅛	8	2
99244	*	1⅛	9	2
99244-1	*	1⅛	10	2
*	¤98220	1⅛	6½	1
*	¤98221	1⅛	7	1
*	*	1⅛	7½	1
*	¤98222	1⅛	8	1
*	¤98222-1	1⅛	8½	1
*	¤98223	1⅛	9	1
¤98072-1	¤98223-1	1⅛	9½	1
*	¤98209	1⅛	10	1
¤98058-1	¤98209-1	1⅛	10½	1
¤98059	¤98210	1⅛	11	1
¤98059-1	¤98210-1	1⅛	11½	1
¤98060	¤98211	1⅛	12	1
¤98060-1	¤98211-1	1⅛	12½	1
*	¤98212	1⅛	13	1
¤98061-1	¤98212-2	1⅛	13½	1
*	¤98213	1⅛	14	1
¤98062-1	¤98213-1	1⅛	14½	1
¤98063-1	¤98214-1	1⅛	15½	1
*	¤98215	1⅛	16	1
¤98064-1	¤98215-1	1⅛	16½	1
¤98065	¤98216	1⅛	17	1
¤98065-1	¤98216-1	1⅛	17½	1

UNC (USS) Part No. TPI-7	UNF (SAE) Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
99244-2	*	1¼	2½	10
C703804	*	1¼	3	5
99245-1	*	1¼	3½	10
99245-2	*	1¼	4	5
99246	*	1¼	4½	5
99247	*	1¼	5	2
99248	*	1¼	5½	2
99249	*	1¼	6	2
99250	*	1¼	6½	2
99251	*	1¼	7	2
¤98085-1	*	1¼	7½	1
C703826	*	1¼	7½	5
99252	*	1¼	8	2
¤98086	*	1¼	8½	1
99254	*	1¼	9	2
*	¤98238	1¼	9	1
99255	*	1¼	9½	2
99256	*	1¼	10	1
*	¤98224	1¼	10	1
¤98074	*	1¼	11	1
¤98075	¤98226	1¼	12	1
¤98076	*	1¼	13	1
¤98077	*	1¼	14	1
¤98079	*	1¼	16	1

UNC (USS) Part No. TPI-7	UNF (SAE) Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
*	¤98230-1	1¼	16½	1
¤98081	*	1¼	18	1
¤98282-1	*	1¼	19½	1

UNC Part No. TPI-6	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
¤98100	*	1⅜	7	1
¤98101	*	1⅜	8	1

UNC Part No. TPI-6	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
99260	*	1½	3	2
99261	*	1½	3½	2
99262	*	1½	4	1
99263	*	1½	4½	1
99264	*	1½	5	1
99265	*	1½	5½	1
99266	*	1½	6	1
99267	*	1½	6½	1
99268	*	1½	7	1
99269	¤99262	1½	8	1
¤98117-1	*	1½	8½	1
99270	¤98263	1½	9	1
¤98118-1	¤98263-1	1½	9½	1
99271	¤98249	1½	10	1
*	¤98249-1	1½	10½	1
¤98104	*	1½	11	1
¤98104-1	*	1½	11½	1
¤98105	*	1½	12	1

UNC Part No. TPI-5	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
¤98132	*	1¾	7	1
¤98133	*	1¾	8	1
¤98120	*	1¾	10	1
¤98122	*	1¾	12	1
¤98122	¤98266	1¾	12	1

UNC Part No. TPI-4-½	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
¤98147	*	2	7	1
¤98149	*	2	9	1
¤98135	*	2	10	1
¤98137	*	2	12	1
¤98138	*	2	13	1

*Item not available

Grade 8 Hex Nuts - Non-Plated
Made in U.S.A.



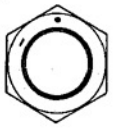
Grade 8 Hex Nuts are used to be with Grade 8 Hex Head Cap Screws, Grade 8 Plow Bolts and other alloy bolts.

Specifications:

- 150,000 psi proof load
- Black natural finish

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C767000	¼ - 20	C767001	¼ -28	100
C767002	5/16 - 18	C767003	5/16 - 24	100
C767004	⅜ - 16	C767005	⅜ - 24	100
C767006	⅞ - 14	C767007	7/16 - 20	50
C767008	½ - 13	C767009	½ - 20	50
C767010	9/16 - 12	C767011	9/16 - 18	50
C767012	⅝ - 11	C767013	⅝ - 18	50
C767014	¾ - 10	C767015	¾ - 16	25
C767016	⅞ - 9	C767017	⅞ - 14	25
C767018	1 - 8	C767019	1 - 14	10
C767020	1 - ⅛ - 7	C767021	1 -⅛ - 12	10
C767022	1 - ¼ - 7	C767023	1 - ¼ -12	10
C767024	1 - ½ - 6			10

Grade 8 Finished Hex Nuts — Non-Plated

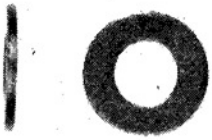


- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 150,000 psi proof load

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
99780	¼ - 20	C713001	¼ - 28	100
99781	5/16 - 18	C713003	5/16 - 24	100
99782	⅜ - 16	99797	⅜ - 24	100
99783	7/16 - 14	C713007	7/16 - 20	50
99784	½ - 13	99799	½ - 20	50
99785	9/16 - 12	C713011	9/16 - 18	50
99786	⅝ - 11	99801	⅝ - 18	50
99787	¾ - 10	99802	¾ - 16	25
99788	⅞ - 9	99803	⅞ - 14	25
99789	1 - 8	99804	1 - 14	10
99790	1⅛ - 7	C713021	1⅛ - 12	10
99791	1¼ - 7	C713023	1¼ - 12	10
KP26423	1⅜-6	KP26447	1⅜-12	2
99792	1½ - 6	*		10
*		KP26448	1½-12	2
KP26425	1¾-5	KP26449	1¾-12	1
KP26426	2-4-½	KP26450	2-12	1

* Item not available

Through-Hardened Flat Washers
Narrow (SAE) — Non-Plated



- Made in USA
- Meets ASTM F436 specifications
- Carbon steel
- Non-plated

Continued on next page

GRAYSON INDUSTRIES, INC.

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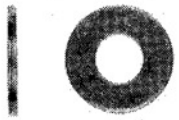
Cap Screws & Matching Components 13

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Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
99740	¼	9/32	5/8	.051 - .080	200
99741	5/16	11/32	11/16	.051 - .080	200
99742	3/8	13/32	13/16	.051 - .080	200
99743	7/16	15/32	59/64	.051 - .080	100
99744	½	17/32	1 1/16	.097 - .177	100
99745	9/16	19/32	1 3/16	.097 - .177	50
99746	5/8	11/16	1 3/16	.122 - .177	50
99747	¾	13/16	1 15/32	.122 - .177	50
99748	7/8	15/16	1¾	.136 - .177	20
99749	1	1⅛	2	.136 - .177	20
99750	1⅛	1¼	2¼	.136 - .177	10
99751	1¼	1⅜	2½	.136 - .177	10
KP47823	1⅜	1½	2¾	.136 - .177	20
99752	1½	1⅝	3	.136 - .177	10
▫99755	1½	1⅝	3	.136 - .177	100
KP47825	1¾	1⅞	3⅜	.178 - .280	10
KP47826	2	2⅛	3¾	.178 - .280	5
KP86956	2¼	2⅜	4	.240 - .340	5
KP47827	2½	2⅝	4½	.240 - .340	5

Through-Hardened Flat Washers

Wide (USS) — Non-Plated



- Made in USA
- Meets ANSI B18.22.1 specifications
- Carbon steel
- Non-plated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
99760	¼	5/16	¾	.051 - .080	200
99761	5/16	3/8	7/8	.064 - .104	200
99762	3/8	7/16	1	.064 - .104	200
99763	7/16	½	1¼	.064 - .104	100
99764	½	9/16	1⅜	.086 - .132	100
99765	9/16	5/8	1½	.086 - .132	50
99766	5/8	11/16	1¾	.105 - .160	50
99767	¾	13/16	2	.122 - .177	50
99768	7/8	15/16	2¼	.136 - .192	20
99769	1	1 1/16	2½	.136 - .192	20
99770	1⅛	1¼	2¾	.136 - .192	10
99771	1¼	1⅜	3	.136 - .192	10
99772	1½	1⅝	3½	.136 - .192	10

Grade 8 Lock Washers — Non-Plated



- Made in USA
- Meets ANSI/ASME B18.21.1 specifications
- High carbon alloy steel
- Through-hardened
- Non-plated
- Non-linking type

Part No.	Bolt Size (In.)	Unit
99720	¼	100
99721	5/16	100
99722	3/8	100
99723	7/16	50
99724	½	50
99725	9/16	25
99726	5/8	25
99727	¾	25
99728	7/8	10
99729	1	10
99730	1⅛	10
99731	1¼	10
C713072	1½	10

Grade 8 Flange Cap Screws

Grade 8 Hex Flange Head Cap Screws



BOWMAN Gold Unichrome PLATING™

- UNC (USS) or UNF (SAE)
- Meets SAE J429 Grade 8 specifications
- Medium carbon alloy steel
- Through-hardened
- 150,000 psi minimum tensile strength
- Recessed fillet radius
- Used for truck frame applications

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
47054	*	3/8	1	100
47055	*	3/8	1¼	100
47056	*	3/8	1½	100

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
47104	*	½	1	50
47105	*	½	1¼	50
47106	47116	½	1½	50
47107	47117	½	1¾	50
47108	47118	½	2	50
47110	*	½	2½	25
47112	*	½	3	25
47113	*	½	3½	25

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
47147	*	5/8	1½	25
47148	*	5/8	1¾	25
47149	47159	5/8	2	25
47150	47160	5/8	2¼	25
47151	47161	5/8	2½	25
*	47162	5/8	2¾	25
47153	*	5/8	3	25

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
47171	*	¾	2	10
47172	*	¾	2¼	10
47173	*	¾	2½	10
47174	*	¾	3	10
47175	*	¾	3½	10
47176	*	¾	4	10

* Item not available

Bowma-Grip® Hex Flange Lock Nuts

All-Metal Prevailing-Torque Type



- UNC (USS) or UNF (SAE)
- Meets IFI 100/107 Grade G (Grade 8) mechanical specifications
- Medium carbon steel
- Through-hardened
- 150,000 psi proof load
- Cadmium electroplate with yellow dichromate finish and waxed
- Multiple locking surfaces to resist vibration
- For temperature applications up to 400° F
- Compatible for use with Bowmalloy®, Bowma-Torq®/Grade 8 and SAE Grade 5 strength fasteners

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
46980	¼-20	46990	¼-28	100
46981	5/16-18	46991	5/16-24	100
46982	3/8-16	46992	3/8-24	100
46983	7/16-14	46993	7/16-20	50
46984	½-13	46994	½-20	50
46985	5/8-11	46995	5/8-18	50
46986	¾-10	46996	¾-16	25

Grade 8 Flange Cap Screws-Black

Hex Flange Screws - Grade 8 Non-Plated



Grade 8 Hex Flange Screws are commonly used in truck applications and are also known as Frame Bolts. The flange eliminates the need for flat washers. We supply only the best, true Grade 8. Grade 8.2 may weaken when used in higher heat applications.

- 150,000 psi minimum tensile strength
- UNC coarse thread and UNF fine thread
- Black natural finish

Continued on next page

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UNC Part No. TPI-16	UNF Part No. TPI-24	Diameter (In.)	Length (In.)	Unit
C39026	*	⅜	1	25
C39027	*	⅜	1¼	25
C39028	*	⅜	1½	25
C39029	*	⅜	1¾	25
C39030	*	⅜	2	25
*	*	⅜	2¼	
C39031	*	⅜	2½	10
*	*	⅜	2¾	
C39032	*	⅜	3	10
*	*	⅜	3½	
*	*	⅜	4	

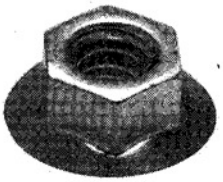
UNC Part No. TPI-13	UNF Part No. TPI-20	Diameter (In.)	Length (In.)	Unit
C39033	*	½	1	25
C39034	C39059	½	1¼	25
C39035	C39060	½	1½	25
C39036	C39060-1	½	1¾	10
C39037	C39061	½	2	10
C39038	C39061-1	½	2¼	10
C39039	C39062	½	2½	10
C39040	*	½	2¾	10
C39041	C39063	½	3	10
C39042	*	½	3½	10
C39043	*	½	4	10

UNC Part No. TPI-11	UNF Part No. TPI-18	Diameter (In.)	Length (In.)	Unit
C39044	*	⅝	1¼	10
C39045	C39064	⅝	1½	10
C39046	C39064-1	⅝	1¾	10
C39047	C39065	⅝	2	10
C39048	C39065-1	⅝	2¼	10
C39049	C39066	⅝	2½	10
C39050	C39066-1	⅝	2¾	10
C39051	C39067	⅝	3	10
C39052	*	⅝	3½	10
C39053	*	⅝	4	10
KP7156	*	⅝	4½	25
KP7157	*	⅝	5	25
KP7158	*	⅝	5½	20

UNC Part No. TPI-10	UNF Part No. TPI-16	Diameter (In.)	Length (In.)	Unit
C39054	*	¾	2	5
KP88426	*	¾	2¼	10
C39055	C39067-5	¾	2½	5
*	*	¾	2¾	
C39056	C39067-7	¾	3	5
C39057	*	¾	3½	5
C39058	*	¾	4	5
KP7160	*	¾	4½	10

* Not Available

Grade 8 Hex Flange Hex Nuts - Non-Plated



- For use with Grade 8 Hex Flange Cap Screws
- 150,000 psi load
- Black (Unplated) Finish

Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C39068	⅜-16	*	⅜-24	25
C39069	½-13	C39072	½-20	25
C39070	⅝-11	C39073	⅝-18	10
C39071	¾-10	C39074	¾-16	5

Grade 5

Grade 5 Hex Head Cap Screws

Made in U.S.A.



BOWMAN Unichrome PLATING™

- UNC (USS) or UNF (SAE)
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- Tensile Strength:
  120,000 psi minimum for ¼" through 1" diameters
  105,000 psi minimum for 1⅛" through 1¼" diameters

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
KP62000-1	*	¼	⅜	100
30000	30175	¼	½	100
MP30000	MP30175	¼	½	50
30001	C7390	¼	⅝	100
30002	30177	¼	¾	100
MP30002	MP30177	¼	¾	50
30003	30178	¼	⅞	100
30004	30179	¼	1	100
MP30004	MP30179	¼	1	50
30005	30180	¼	1¼	100
MP30005	*	¼	1¼	50
30006	30181	¼	1½	100
MP30006	MP30181	¼	1½	50
30007	30182	¼	1¾	100
MP30007	MP30182	¼	1¾	50
30008	30183	¼	2	100
MP30008	MP30183	¼	2	50
30009	30184	¼	2¼	100
MP30009	*	¼	2¼	50
30010	30185	¼	2½	100
MP30010	*	¼	2½	50
*	MP30185	¼	2½	25
30011	30186	¼	2¾	100
MP30011	*	¼	2¾	50
30012	30187	¼	3	100
MP30012	*	¼	3	50
*	MP30187	¼	3	25
30013	*	¼	3¼	50
30014	30189	¼	3½	100
MP30014	*	¼	3½	50
C702030	*	¼	3	25
30016	30191	¼	4	50
30017	*	¼	4½	50
30018	*	¼	5	50
30019	*	¼	5½	50
30020	*	¼	6	50

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
30025	30200	5/16	½	100
MP30025	MP30200	5/16	½	50
30026	30201	5/16	⅝	100
30027	30202	5/16	¾	100
MP30027	MP30202	5/16	¾	50
30028	30203	5/16	⅞	100
30029	30204	5/16	1	100
MP30029	MP30204	5/16	1	50
30030	30205	5/16	1¼	100
MP30030	*	5/16	1¼	50
30031	30206	5/16	1½	100
MP30031	MP30206	5/16	1½	50
30032	30207	5/16	1¾	100
MP30032	*	5/16	1¾	50
30033	30208	5/16	2	100
MP30033	MP30208	5/16	2	25
30034	30209	5/16	2¼	100
MP30034	*	5/16	2¼	25
30035	30210	5/16	2½	100
MP30035	MP30210	5/16	2½	25
30036	30211	5/16	2¾	100
MP30036	*	5/16	2¾	25
30037	30212	5/16	3	100
MP30037	MP30212	5/16	3	25
30038	*	5/16	3¼	100
30039	30214	5/16	3½	100
MP30039	*	5/16	3½	25
C702080	*	5/16	3¾	25
30040	30215	5/16	4	100
MP30040	*	5/16	4	25
30041	30216	5/16	4½	50
MP30041	*	5/16	4½	25
30042	KP63035	5/16	5	50
MP30042	*	5/16	5	25
30043	*	5/16	5½	50
MP30043	*	5/16	5½	25
30044	*	5/16	6	50
MP30044	*	5/16	6	25

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
30050	30225	⅜	½	100
MP30050	*	⅜	½	25
30051	*	⅜	⅝	100
30052	30227	⅜	¾	100
MP30052	MP30227	⅜	¾	25
30053	*	⅜	⅞	100
30054	30229	⅜	1	100
MP30054	MP30229	⅜	1	25
30055	30230	⅜	1¼	100
MP30055	MP30230	⅜	1¼	25
30056	30231	⅜	1½	100
MP30056	MP30231	⅜	1½	25

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Cap Screws & Matching Components

Continued from previous page

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
30057	30232	3/8	1 3/4	100
MP30057	*	3/8	1 3/4	25
30058	30233	3/8	2	50
MP30058	MP30233	3/8	2	25
30059	30234	3/8	2 1/4	50
MP30059	*	3/8	2 1/4	25
30060	30235	3/8	2 1/2	50
MP30060	MP30235	3/8	2 1/2	25
30061	30236	3/8	2 3/4	50
MP30061	*	3/8	2 3/4	10
30062	30237	3/8	3	50
MP30062	MP30237	3/8	3	10
30063	30238	3/8	3 1/4	50
MP30063	*	3/8	3 1/4	10
30064	30239	3/8	3 1/2	50
MP30064	MP30239	3/8	3 1/2	10
30065	30240	3/8	3 3/4	25
MP30065	*	3/8	3 3/4	10
30066	30241	3/8	4	25
MP30066	MP30241	3/8	4	10
30067	30242	3/8	4 1/2	25
MP30067	MP30242	3/8	4 1/2	10
30068	30243	3/8	5	25
MP30068	MP30243	3/8	5	10
30069	30244	3/8	5 1/2	25
MP30069	*	3/8	5 1/2	10
30070	30245	3/8	6	25
MP30070	*	3/8	6	10
30071	*	3/8	6 1/2	25
C702144	*	3/8	7	25
MPC702144	*	3/8	7	10
C702148	*	3/8	8	25
MPC702148	*	3/8	8	10

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
30077	30252	7/16	3/4	100
MP30077	*	7/16	3/4	25
30079	30254	7/16	1	100
MP30079	MP30254	7/16	1	25
30080	30255	7/16	1 1/4	100
MP30080	MP30255	7/16	1 1/4	25
30081	30256	7/16	1 1/2	100
MP30081	MP30256	7/16	1 1/2	25
30082	30257	7/16	1 3/4	100
MP30082	*	7/16	1 3/4	25
30083	30258	7/16	2	50
MP30083	MP30258	7/16	2	25
30084	30259	7/16	2 1/4	50
MP30084	*	7/16	2 1/4	25
30085	30260	7/16	2 1/2	50
MP30085	MP30260	7/16	2 1/2	10
30086	30261	7/16	2 3/4	25
30087	30262	7/16	3	25
MP30087	MP30262	7/16	3	10
30088	30263	7/16	3 1/4	25
30089	30264	7/16	3 1/2	25
MP30089	MP30264	7/16	3 1/2	10
30091	30266	7/16	4	25
MP30091	MP30266	7/16	4	10
30092	30267	7/16	4 1/2	25
MP30092	*	7/16	4 1/2	10
30093	30268	7/16	5	25
MP30093	MP30268	7/16	5	10

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
30094	30269	7/16	5 1/2	25
MP30094	*	7/16	5 1/2	10
30095	30270	7/16	6	25
MP30095	*	7/16	6	10
C702190	*	7/16	7	25

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
30102	30277	1/2	3/4	50
C702202	*	1/2	7/8	50
30104	30279	1/2	1	50
MP30104	MP30279	1/2	1	25
30105	30280	1/2	1 1/4	50
MP30105	MP30280	1/2	1 1/4	25
30106	30281	1/2	1 1/2	50
MP30106	MP30281	1/2	1 1/2	25
30107	30282	1/2	1 3/4	50
MP30107	*	1/2	1 3/4	25
30108	30283	1/2	2	50
MP30108	MP30283	1/2	2	25
30109	30284	1/2	2 1/4	25
30110	30285	1/2	2 1/2	25
MP30110	MP30285	1/2	2 1/2	10
30111	30286	1/2	2 3/4	25
30112	30287	1/2	3	25
MP30112	MP30287	1/2	3	10
30113	30288	1/2	3 1/4	25
30114	30289	1/2	3 1/2	25
MP30114	MP30289	1/2	3 1/2	10
30115	*	1/2	3 3/4	25
30116	30291	1/2	4	25
MP30116	MP30291	1/2	4	10
30117	30292	1/2	4 1/2	25
MP30117	*	1/2	4 1/2	10
30118	30293	1/2	5	25
MP30118	MP30293	1/2	5	10
30119	30294	1/2	5 1/2	25
30120	30295	1/2	6	25
MP30120	*	1/2	6	10
30121	*	1/2	6 1/2	25
MP30121	*	1/2	6 1/2	10
30122	30297	1/2	7	25
MP30122	*	1/2	7	10
30123	*	1/2	7 1/2	25
30124	*	1/2	8	10

UNC Part No. TPI-12	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
30130	30304	9/16	1	25
MP30130	MP30304	9/16	1	5
30130-1	30305	9/16	1 1/4	25
30131	30306	9/16	1 1/2	25
MP30131	MP30306	9/16	1 1/2	5
30132	30307	9/16	1 3/4	25
30133	30308	9/16	2	25
MP30133	MP30308	9/16	2	5
30134	30309	9/16	2 1/4	10
30135	30310	9/16	2 1/2	10
MP30135	MP30310	9/16	2 1/2	5
C93832	C93834	9/16	2 3/4	25
30137	30312	9/16	3	10
MP30137	MP30312	9/16	3	5
30139	30314	9/16	3 1/2	10
C702322	*	9/16	3 3/4	25
30141	30316	9/16	4	10
30142	30317	9/16	4 1/2	10
30143	30318	9/16	5	10
30144	30319	9/16	6	10

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
30145-1	30320-1	5/8	1	25
30145-11/4	30320-11/4	5/8	1 1/4	25
30145-11/2	30320-11/2	5/8	1 1/2	25
MP30145-11/2	MP30320-11/2	5/8	2 1/4	10
30145-13/4	30320-13/4	5/8	1 3/4	25
30145-2	30320-2	5/8	2	25
MP30145-2	MP30320-2	5/8	2	10
30145-21/4	30320-21/4	5/8	2 1/4	25
30145-21/2	30320-21/2	5/8	2 1/2	25
MP30145-21/2	MP30320-21/2	5/8	2 1/2	10
30145-23/4	30320-23/4	5/8	2 3/4	25
30145-3	30320-3	5/8	3	25
MP30145-3	MP30320-3	5/8	3	10
30145-31/4	*	5/8	3 1/4	25
30145-31/2	30320-31/2	5/8	3 1/2	25
MP30145-31/2	MP30320-31/2	5/8	3 1/2	10
30145-33/4	*	5/8	3 3/4	25
30145-4	30320-4	5/8	4	25
MP30145-4	MP30320-4	5/8	4	10
30145-41/2	30320-41/2	5/8	4 1/2	25
MP30145-41/2	MP30320-41/2	5/8	4 1/2	10
30145-5	30320-5	5/8	5	25
MP30145-5	*	5/8	5	10
30145-51/2	30320-51/2	5/8	5 1/2	25
MP30145-51/2	*	5/8	5 1/2	10
30145-6	30320-6	5/8	6	25
MP30145-6	*	5/8	6	10
30145-61/2	*	5/8	6 1/2	25
MP30145-61/2	*	5/8	6 1/2	10
30145-7	30320-7	5/8	7	10
30145-71/2	*	5/8	7 1/2	10
30145-8	30320-8	5/8	8	10
30145-9	*	5/8	9	10
30145-10	*	5/8	10	10

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
30160-1	*	3/4	1	25
30160-11/4	*	3/4	1 1/4	25
30160-11/2	C93835	3/4	1 1/2	25
30160-13/4	C93836	3/4	1 3/4	25
30160-2	30330-2	3/4	2	25
MP30160-2	MP30330-2	3/4	2	10
30160-21/4	30330-21/4	3/4	2 1/4	25
30160-21/2	30330-21/2	3/4	2 1/2	25
MP30160-21/2	MP30330-21/2	3/4	2 1/2	10
30160-23/4	30330-23/4	3/4	2 3/4	25
30160-3	30330-3	3/4	3	25
MP30160-3	MP30330-3	3/4	3	10
30160-31/4	*	3/4	3 1/4	25
30160-31/2	30330-31/2	3/4	3 1/2	25
MP30160-31/2	MP30330-31/2	3/4	3 1/2	10
30160-33/4	*	3/4	3 3/4	25
30160-4	30330-4	3/4	4	25
MP30160-4	MP30330-4	3/4	4	25
30160-41/2	30330-41/2	3/4	4 1/2	25
MP30160-41/2	MP30330-41/2	3/4	4 1/2	10
30160-5	30330-5	3/4	5	25
MP30160-5	MP30330-5	3/4	5	10
30160-51/2	*	3/4	5 1/2	25
MP30160-51/2	*	3/4	5 1/2	10
*	C14522	3/4	5 1/2	10
30160-6	*	3/4	6	20
MP30160-6	C10280	3/4	6	10
30160-61/2	*	3/4	6 1/2	20
MP30160-61/2	*	3/4	6 1/2	10
30160-7	C80847	3/4	7	10

Continued on next page

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UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
30160-71/2	*	¾	7½	10
30160-8	*	¾	8	10
30160-81/2	*	¾	8½	10
30160-9	*	¾	9	10
30160-10	*	¾	10	10

UNC Part No. TPI-9	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
30165-11/2	*	⅞	1½	25
*	C93839	⅞	1½	10
30165-13/4	*	⅞	1¾	25
30165-2	30335-2	⅞	2	25
MP30165-2	*	⅞	2	10
30165-21/4	*	⅞	2¼	25
30165-21/2	30335-21/2	⅞	2½	25
MP30165-21/2	*	⅞	2½	10
30165-3	30335-3	⅞	3	25
MP30165-3	*	⅞	3	10
30165-31/4	*	⅞	3¼	25
30165-31/2	*	⅞	3½	25
MP30165-31/2	*	⅞	3½	10
*	C83537	⅞	3½	10
30165-4	*	⅞	4	25
MP30165-4	*	⅞	4	10
*	C83539	⅞	4	10
30165-41/2	*	⅞	4½	25
MP30165-41/2	*	⅞	4½	10
30165-5	*	⅞	5	25
MP30165-5	*	⅞	5	10
*	C702625	⅞	5	10
30165-51/2	*	⅞	5½	25
MP30165-51/2	*	⅞	5½	10
30165-6	*	⅞	6	25
MP30165-6	C10286	⅞	6	10
30165-61/2	*	⅞	6½	10
30165-7	*	⅞	7	10
30165-71/2	*	⅞	7½	10
30165-8	*	⅞	8	10
30165-9	*	⅞	9	10
30165-10	*	⅞	10	10

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
C702700	*	1	1½	10
30170-2	*	1	2	25
MP30170-2	*	1	2	10
30170-21/2	*	1	2½	25
MP30170-21/2	*	1	2½	10
30170-3	*	1	3	20
MP30170-3	*	1	3	10
*	C702713	1	3	10
30170-31/2	*	1	3½	20
MP30170-31/2	*	1	3½	10
*	C702717	1	3½	10
30170-4	*	1	4	16
MP30170-4	*	1	4	10
*	C702721	1	4	10
30170-41/2	*	1	4½	16
MP30170-41/2	*	1	4½	10
*	C702723	1	4½	10
30170-5	*	1	5	12
*	C83551	1	5	10
30170-51/2	*	1	5½	12
30170-6	*	1	6	12
30170-61/2	*	1	6½	10
30170-7	*	1	7	10

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
30170-71/2	*	1	7½	10
30170-8	*	1	8	10
30170-81/2	*	1	8½	10
30170-9	*	1	9	10
30170-10	*	1	10	10

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
30172-4	*	1⅛	4	10
30172-41/2	*	1⅛	4½	5
30172-5	*	1⅛	5	10
30172-6	*	1⅛	6	10
30172-7	*	1⅛	7	5

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
30174-3	*	1¼	3	10
30174-4	*	1¼	4	10
30174-41/2	*	1¼	4½	5
30174-5	*	1¼	5	10
30174-6	*	1¼	6	10
30174-7	*	1¼	7	5
30174-8	*	1¼	8	5
30174-9	*	1¼	9	5
30174-10	*	1¼	10	5

* Item not available

Grade 5 Hex Head Cap Screws



- UNC (USS)
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- Tensile Strength:
  120,000 psi minimum for ¼" through 1" diameters
  105,000 psi minimum for 1⅛" through 1½" diameters
- Zinc plated

Part No.	Dia. - TPI	Length (In.)	Unit
33101	½-13	8½	10
33102	½-13	9	10
33103	½-13	10	10
33104	½-13	11	10
33105	½-13	12	10
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
33142	⅝-11	11	10
33143	⅝-11	12	10
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
33168	¾-10	11	10
33169	¾-10	12	10
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
33205	1-8	11	10
33206	1-8	12	10
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
33221	1½-6	4½	1

NOTE: These sizes are not available from our U.S.A. manufacturer

Grade 5 Hex Head Cap Screws Threaded to Head



- UNC (USS)
- Meets SAE Grade 5 specifications
- Medium carbon steel
- Zinc plated

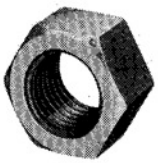
UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
30000	30175	¼	½	100
30001	C7390	¼	⅝	100
30002	30177	¼	¾	100
30003	*	¼	⅞	100
30004	30179	¼	1	100

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
30025	30200	5⁄16	½	100
30026	30201	5⁄16	⅝	100
30027	30202	5⁄16	¾	100
30028	30203	5⁄16	⅞	100
30029	30204	5⁄16	1	100
C9253	C9258	5⁄16	1½	100
C10908	*	5⁄16	1¾	100
34008	*	5⁄16	2	100

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
30050	30225	⅜	½	100
30051	*	⅜	⅝	100
30052	30227	⅜	¾	100
30053	*	⅜	⅞	100
30054	30229	⅜	1	100
C9255	C9260	⅜	1½	50
34012	*	⅜	2	50

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
30077	30252	7⁄16	¾	100
30079	30254	7⁄16	1	100
30080	30255	7⁄16	1¼	100

Grade 5 Finished Hex Nuts



BOWMAN Unichrome PLATING™

- Made in USA
- UNC or UNF
- Meets SAE J995 Grade 5 Specifications
- Designed for use with Grade 5 Cap Screws
- Zinc Clear Plating
- Made in U.S.A.

Continued on next page

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Cap Screws & Matching Components 17

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UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
33000	¼-20	33013	¼-18	100
33001	5/16-18	33014	5/16-24	100
33002	⅜-16	33015	⅜-24	100
33003	7/16-14	33016	7/16-20	50
33004	½-13	33017	½-20	50
33005	9/16-12	33018	9/16-18	50
33006	⅝-11	33019	⅝-18	50
33007	¾-10	33020	¾-16	25
33008	⅞-9	33021	⅞-14	25
33009	1-8	33022	1-14	25
C712020	1⅛-7	C712021	1⅛-12	10
C712022	1¼-7	C712023	1¼-12	10

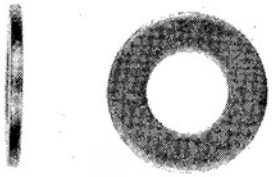
Grade 5 Finished Hex Nuts



- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 5 Specifications
- Carbon steel
- Designed for use with Grade 5 cap screws

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
31201	¼-20	31211	¼-28	200
MP31201	¼-20	MP31211	¼-28	50
31202	5/16-18	31212	5/16-24	200
MP31202	5/16-18	MP31212	5/16-24	50
31203	⅜-16	31213	⅜-24	200
MP31203	⅜-16	MP31213	⅜-24	50
31204	7/16-14	31214	7/16-20	100
MP31204	7/16-14	MP31214	7/16-20	25
31205	½-13	31215	½-20	50
MP31205	½-13	MP31215	½-20	25
31206	9/16-12	31216	9/16-18	50
MP31206	9/16-12	MP31216	9/16-18	25
31207	⅝-11	31217	⅝-18	50
MP31207	⅝-11	MP31217	⅝-18	25
31208	¾-10	31218	¾-16	50
MP31208	¾-10	MP31218	¾-16	25
31209	⅞-9	31219	⅞-14	25
31210	1-8	31220	1-14	25
31210-11/8	1⅛-7	31220-11/8	1⅛-12	10
31210-11/4	1¼-7	31220-11/4	1¼-12	10
31210-11/2	1½-6	31220-11/2	1½-12	10

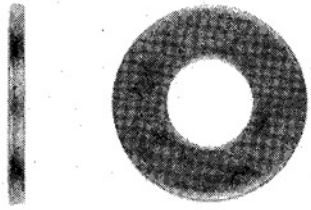
Hardened Zinc-Clear Flat Washers - For use with Grade 5 Hex Head Cap Screws - SAE



- Made in USA
- Zinc-Clear plating

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
C82949	¼	9/32	⅝	1/16	100
C82950	5/16	11/32	11/16	1/16	100
C82951	⅜	13/32	13/16	1/16	100
C82952	7/16	15/32	15/16	1/16	50
C82953	½	17/32	1 1/16	7/64	50
C82954	9/16	19/32	1 3/16	7/64	50
C82955	⅝	21/32	1 5/16	9/64	25
C82924	¾	13/16	1½	9/64	25
C82925	⅞	15/16	1¾	5/32	25
C82926	1	1 1/16	2	5/32	25
C82927	1⅛	1¼	2¼	5/32	10
C82928	1¼	1⅜	2½	5/32	10
C712055		1⅝	3	.168-.192	25

Hardened Zinc-Clear Flat Washers - For use with Grade 5 Hex Head Cap Screws - USS



- Made in USA
- Zinc-Clear plating

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
C39871	¼	5/16	¾	1/16	250
C85878	¼	5/16	¾	1/16	100
C39872	5/16	⅜	⅞	5/64	250
C85879	5/16	⅜	⅞	5/64	100
C39873	⅜	7/16	1	5/64	250
C85880	⅜	7/16	1	5/64	100
C39874	7/16	½	1¼	5/64	100
C85881	7/16	½	1¼	5/64	50
C39875	½	9/16	1⅜	7/64	100
C85882	½	9/16	1⅜	7/64	50
C85883	9/16	⅝	1½	7/64	50
C39876	⅝	11/16	1¾	9/64	50
C85884	⅝	11/16	1¾	9/64	25
C39877	¾	13/16	2	9/64	50
C85885	¾	13/16	2	9/64	10
C85886	⅞	15/16	2¼	5/32	10
C85887	1	1 1/16	2½	5/32	10
C85888	1⅛	1¼	2¾	5/32	5
C85889	1¼	1⅜	3	5/32	5
C712054		1⅝	3½	.168-.213	25

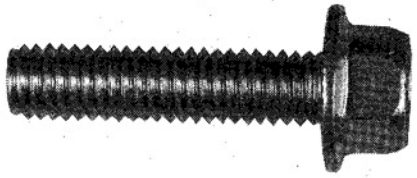
Grade 5 Lock Washers



- Meets ANSI/ASME B18.21.1 specifications
- High carbon spring steel
- Through-hardened
- Non-linking

Part No.	Bolt Size (In.)	Unit
31320	No. 4	250
31321	No. 6	250
31322	No. 8	250
31323	No. 10	250
31324	No. 12	250
31325	¼	250
MP31325	¼	100
31326	5/16	250
MP31326	5/16	100
31327	⅜	250
MP31327	⅜	100
31328	7/16	250
MP31328	7/16	100
31329	½	250
MP31329	½	100
31330	9/16	100
MP31330	9/16	50
31331	⅝	100
MP31331	⅝	50
31332	¾	50
31333	⅞	50
31334	1	50
31335	1⅛	25
31336	1¼	25
31337	1½	25

Hex Flange Spinlock Screws



- 120,000 PSI tensile strength
- Zinc Plating
- Serrated flange

Part No.	Dia-TPI	Length (In.)	Unit
KP24713	10-24	½	100
KP24714	10-24	⅝	100
KP24715	10-24	¾	100
KP24716	10-24	1	100
Part No.	**Dia-TPI**	**Length (In.)**	**Unit**
KP24722	¼-20	½	100
KP24723	¼-20	⅝	100
KP24724	¼-20	¾	100
KP24725	¼-20	⅞	100
KP60860	¼-20	1	50
KP24726	¼-20	1¼	50
KP24728	¼-20	1½	50
KP24729	¼-20	1¾	50
KP24730	¼-20	2	50
Part No.	**Dia-TPI**	**Length (In.)**	**Unit**
KP24731	5/16-18	½	50
KP24732	5/16-⅛	⅝	50
KP24733	5/16-18	¾	50

Continued on next page

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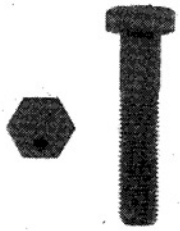
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Part No.	Dia-TPI	Length (In.)	Unit
KP24734	5/16-18	7/8	50
KP24735	5/16-18	1	50
KP24736	5/16-18	1 1/4	50
KP24737	5/16-18	1 1/2	50
KP24738	5/16-18	2	50

Part No.	Dia-TPI	Length (In.)	Unit
KP24739	3/8-16	1/2	50
KP24741	3/8-16	3/4	50
KP24742	3/8-16	7/8	50
KP24743	3/8-16	1	50
KP24744	3/8-16	1 1/4	50
KP24745	3/8-16	1 1/2	50
KP24746	3/8-16	2	50

Grade 5 - Black

Grade 5 Hex Head Cap Screws — Non-Plated



- UNC (USS) or UNF (SAE)
- Meets SAE Grade 5 specifications
- Medium carbon steel
- Through-hardened
- Tensile Strength:
  120,000 psi minimum for 1/4" through 1" diameters
  105,000 psi minimum for 1 1/8" through 1 1/2" diameters

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
97000	97300	1/4	1/2	100
MP97000	*	1/4	1/2	50
97001	97301	1/4	5/8	100
*	97301-B	1/4	5/8	4800
97002	97302	1/4	3/4	100
MP97002	*	1/4	3/4	50
97003	97303	1/4	7/8	100
97004	97304	1/4	1	100
MP97004	*	1/4	1	50
97005	*	1/4	1 1/4	100
97006	97306	1/4	1 1/2	100
MP97006	*	1/4	1 1/2	50
97007	*	1/4	1 3/4	100
97008	*	1/4	2	100
MP97008	*	1/4	2	50
97009	*	1/4	2 1/4	100
97010	*	1/4	2 1/2	100
97011	*	1/4	2 3/4	100
97012	*	1/4	3	100
97013	*	1/4	3 1/4	100
97014	*	1/4	3 1/2	100
C701030	*	1/4	3 3/4	50
97016	*	1/4	4	50
C701034	*	1/4	4 1/2	50
97018	*	1/4	5	50
97020	*	1/4	6	50

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
97025	97325	5/16	1/2	100
C701052	97325-1	5/16	5/8	100
*	97325-1B	5/16	5/8	2800
97027	97327	5/16	3/4	100
MP97027	*	5/16	3/4	50
97028	97328	5/16	7/8	100
*	97328-B	5/16	7/8	2400
97029	97329	5/16	1	100
MP97029	*	5/16	1	50
97029-1	*	5/16	1 1/8	100
97030	97330	5/16	1 1/4	100
97031	97331	5/16	1 1/2	50
MP97031	*	5/16	1 1/2	50
97032	*	5/16	1 3/4	100
97033	97333	5/16	2	100
MP97033	*	5/16	2	25
97034	*	5/16	2 1/4	100
97035	*	5/16	2 1/2	100
MP97035	*	5/16	2 1/2	25
97036	*	5/16	2 3/4	100
97037	*	5/16	3	100
MP97037	*	5/16	3	25
97038	*	5/16	3 1/4	100
97039	*	5/16	3 1/2	100
C701080	*	5/16	3 3/4	50
97040	*	5/16	4	100
C701084	*	5/16	4 1/2	25
97042	*	5/16	5	50
97043	*	5/16	5 1/2	50
97044	*	5/16	6	50

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
C701100	*	3/8	1/2	100
C701102	*	3/8	5/8	100
97052	97352	3/8	3/4	100
MP97052	*	3/8	3/4	25
97053	97353	3/8	7/8	100
97053-B	*	3/8	7/8	1600
97054	97354	3/8	1	100
MP97054	*	3/8	1	25
97055	97355	3/8	1 1/4	100
MP97055	*	3/8	1 1/4	25
97056	97356	3/8	1 1/2	100
MP97056	*	3/8	1 1/2	25
97057	97357	3/8	1 3/4	100
*	97358	3/8	2	100
97058	*	3/8	2	50
MP97058	*	3/8	2	25
97059	*	3/8	2 1/4	100
97060	97360	3/8	2 1/2	50
MP97060	*	3/8	2 1/2	25
97061	*	3/8	2 3/4	50
97062	*	3/8	3	50
MP97062	*	3/8	3	10
*	97363	3/8	3 1/4	25
97063	*	3/8	3 1/4	50
*	*	3/8	3 1/2	25
97064	*	3/8	3 1/2	50
C701130	*	3/8	3 3/4	50
97066	*	3/8	4	25
97067	*	3/8	4 1/2	25
97068	*	3/8	5	25
97069	*	3/8	5 1/2	25
97070	*	3/8	6	25
97071	*	3/8	6 1/2	25
97072	*	3/8	7	25

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
97077	*	7/16	3/4	100
*	97378	7/16	7/8	100
*	97378-B	7/16	7/8	1200
97079	97379	7/16	1	100
MP97079	*	7/16	1	25
97080	97380	7/16	1 1/4	100
*	97380-B	7/16	1 1/4	950
97081	*	7/16	1 1/2	100
MP97081	*	7/16	1 1/2	25
97082	*	7/16	1 3/4	100
97083	97381	7/16	2	50
MP97083	*	7/16	2	25
97084	97382	7/16	2 1/4	50
97085	*	7/16	2 1/2	50
MP97085	*	7/16	2 1/2	10
97087	*	7/16	3	25
MP97087	*	7/16	3	10
97089	*	7/16	3 1/2	25
97091	*	7/16	4	25
C701180	*	7/16	4 1/2	25
97093	*	7/16	5	25
C701184	*	7/16	5 1/2	25
97095	*	7/16	6	25

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
97102	97402	1/2	3/4	50
97104	97404	1/2	1	50
MP97104	*	1/2	1	25
97105	97405	1/2	1 1/4	50
97106	97406	1/2	1 1/2	50
MP97106	*	1/2	1 1/2	25
97107	*	1/2	1 3/4	50
*	97407	1/2	1 3/4	100
97108	*	1/2	2	50
MP97108	*	1/2	2	25
*	97408	1/2	2	100
97109	97409	1/2	2 1/4	50
*	97410	1/2	2 1/2	50
97110	*	1/2	2 1/2	25
MP97110	*	1/2	2 1/2	10
97111	97412	1/2	2 3/4	25
97112	*	1/2	3	25
MP97112	*	1/2	3	10
97113	*	1/2	3 1/4	25
97114	*	1/2	3 1/2	25
C701226	*	1/2	3 3/4	25
*	97416	1/2	4	50
97116	*	1/2	4	25
97117	*	1/2	4 1/2	25
97118	*	1/2	5	25
97119	*	1/2	5 1/2	25
97120	97420	1/2	6	25
97121	*	1/2	6 1/2	25
97122	*	1/2	7	25
97124	*	1/2	8	10
97126	*	1/2	9	10
97128	*	1/2	10	10
97128-1	*	1/2	11	10

UNC Part No. TPI-12	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
97130	*	9/16	1	25
97131	*	9/16	1 1/2	25
97133	*	9/16	2	25
C701310	*	9/16	2 1/4	25
97135	*	9/16	2 1/2	10

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Cap Screws & Matching Components 19

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UNC Part No. TPI-12	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
*	97437	9/16	3	25
97137	*	9/16	3	10
*	97439	9/16	3½	25
97139	*	9/16	3½	10
C701324	*	9/16	4	25
*CD558101	*	9/16	4½	10
97143	*	9/16	5	10

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
97145	*	5/8	1	25
97146	*	5/8	1¼	25
97147	97447	5/8	1½	25
MP97147	*	5/8	1½	10
97148	*	5/8	1¾	25
97149	97449	5/8	2	25
MP97149	*	5/8	2	10
97150	*	5/8	2¼	25
97151	97451	5/8	2½	25
MP97151	*	5/8	2½	10
97152	*	5/8	2¾	25
97153	97453	5/8	3	25
MP97153	*	5/8	3	10
97154	*	5/8	3¼	25
97155	*	5/8	3½	25
97156	*	5/8	3¾	25
97157	*	5/8	4	25
MP97157	*	5/8	4	10
97157-1	*	5/8	4¼	25
97158	*	5/8	4½	25
97159	*	5/8	5	25
97160	*	5/8	5½	25
97161	*	5/8	6	25
*CD558120	*	5/8	6½	10
97162	*	5/8	7	10
97163	*	5/8	8	10
97163-1	*	5/8	8½	10
97164	*	5/8	9	10
*	¤97668-4	5/8	9	1
¤97501	¤97668	5/8	9½	1
97165	*	5/8	10	10
¤97502	*	5/8	10½	1
97166	*	5/8	11	10
¤97503	*	5/8	11½	1
97167	*	5/8	12	10
97168	*	5/8	12½	10
¤97505	*	5/8	13	1
¤97507	*	5/8	14	1
¤97509	*	5/8	15	1
¤97511	*	5/8	16	1

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
97169	*	¾	1	25
97169-1	*	¾	1¼	25
97170	*	¾	1½	25
97171	*	¾	1¾	25
97172	*	¾	2	25
MP97172	*	¾	2	10
97173	*	¾	2¼	25
97174	*	¾	2½	25
97175	*	¾	2¾	25
97176	*	¾	3	25
MP97176	*	¾	3	10
97177	*	¾	3¼	25
97178	*	¾	3½	25

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
97179	*	¾	3¾	25
97180	*	¾	4	25
MP97180	*	¾	4	10
97181	97481	¾	4½	25
97182	*	¾	5	25
97183	*	¾	5½	25
97184	*	¾	6	25
97185	*	¾	6½	25
97186	*	¾	7	10
97187	*	¾	7½	10
97188	*	¾	8	10
97190	*	¾	9	10
¤97531	*	¾	9½	1
97191	*	¾	10	10
¤97520	*	¾	10½	1
¤97520-1	*	¾	11	1
¤97521	*	¾	11½	1
¤97521-1	*	¾	12	1
¤97522	*	¾	12½	1
¤97523	*	¾	13	1
¤97523-1	*	¾	13½	1
¤97525	*	¾	15	1
¤97526	*	¾	16	1

UNC Part No. TPI-9	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
97193	*	⅞	1½	25
97193-1	*	⅞	1¾	25
97194	*	⅞	2	25
97195	*	⅞	2¼	25
97196	*	⅞	2½	25
97197	*	⅞	2¾	25
97198	*	⅞	3	25
97199	*	⅞	3¼	25
97200	*	⅞	3½	25
97200-1	*	⅞	3¾	25
97201	*	⅞	4	25
97202	*	⅞	4½	25
97203	*	⅞	5	25
*	97480	⅞	5	10
97204	*	⅞	5½	25
97205	*	⅞	6	25
*	97482	⅞	6	10
97206	*	⅞	6½	10
97207	*	⅞	7	10
¤97530-1	*	⅞	7½	1
97209	*	⅞	8	10
¤97543	*	⅞	8½	1
97211	*	⅞	9	10
¤97544	*	⅞	9½	1
97212	*	⅞	10	10
*	¤97684	⅞	10	1
¤97532	*	⅞	10½	1
¤97633	*	⅞	11	1
¤97533-1	*	⅞	11½	1
¤97534	*	⅞	12	1

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
97213	*	1	1½	25
97214	*	1	2	25
97214-1	*	1	2¼	25
97215	*	1	2½	25
97216	*	1	3	25
**	¤97490	1	3	10
97219	*	1	3½	25
97221	*	1	4	15
97222	*	1	4½	15

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
97223	*	1	5	10
97224	*	1	5½	10
97225	*	1	6	10
¤97558	*	1	6½	1
97227	*	1	7	10
97228	*	1	7½	10
97229	*	1		10
*	*	1	8	1
¤97559	*	1	8½	1
97231	*	1	9	10
*	¤97714	1	9	1
¤97565	*	1	9½	1
97232	*	1	10	10
¤97545-1	*	1	11	1
¤97546	*	1	11½	1
¤97546-1	*	1	12	1
¤97548	*	1	13	1
¤97549	*	1	14	1
¤97560	*	1	16	1
¤97563	*	1	19	1

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
97233	*	1⅛	2½	10
97234	*	1⅛	3	10
97234-1	*	1⅛	3½	10
97235	*	1⅛	3¾	10
97236	*	1⅛	4	10
97237	*	1⅛	4½	5
97238	*	1⅛	5	10
C701768	*	1⅛	5½	5
97240	*	1⅛	6	10
C701774	*	1⅛	7	5
97242	*	1⅛	8	5
¤97579-1	*	1⅛	8½	1
¤97580	*	1⅛	9	1
¤97566	*	1⅛	10	1
¤97568	*	1⅛	12	1
¤97569-1	*	1⅛	13½	1

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
97243	*	1¼	3	10
C701808	*	1¼	3½	5
97245	*	1¼	4	10
97246	*	1¼	4½	5
97247	*	1¼	5	10
97247-1	*	1¼	5½	5
97248	*	1¼	6	10
97248-1	*	1¼	6½	5
97249	*	1¼	7	5
¤97593	*	1¼	7½	1
¤97593-1	*	1¼	8	1
97251	*	1¼	9	5
¤97587	*	1¼	16	1

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UNC Part No. TPI-6	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
¤97608	*	1⅜	7	1
¤97609	¤97758	1⅜	8	1

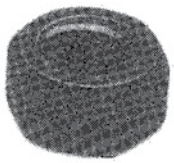
UNC Part No. TPI-6	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
97255	*	1½	2½	2
97256	*	1½	3	2
97256-1	*	1½	3½	2
97257	*	1½	4	1
97257-1	*	1½	4½	1
97258	*	1½	5	1
97259	*	1½	6	1
97260	*	1½	7	1
97261	*	1½	8	1
¤97624-1	*	1½	8½	1
¤97625	*	1½	9	1
97262	*	1½	10	1
*	¤97760	1½	10	1
97612	*	1½	11	1
97613	*	1½	12	1
¤97617	*	1½	16	1

UNC Part No. TPI-5	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
¤97637	*	1¾	6½	1
¤97638-1	*	1¾	7½	1
¤97630	*	1¾	14	1
¤97631	*	1¾	15	1
¤97633	*	1¾	17	1

UNC Part No. TPI-4½	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
¤97655	*	2	9	1
¤97645	*	2	14	1
¤97647	*	2	17	2

✦Canada only

Grade 5 Hex Nuts - Non-Plated



Grade 5 Hex Nuts are to be used with Grade 5 Hex Head Cap Screws, Grade 5 Plow'Bolts and other medium carbon bolts.

Specifications:

- Made in USA
- 120,000 psi proof load for diameters 1 in. and smaller; 105,000 psi proof load for diameters over 1 in.
- Black natural finish

Part No.	Size (In.)	Unit
C768000	¼-20	100
C768002	5/16-18	100
C768004	⅜-16	100
C768006	7/16-14	50
C768008	½-13	50
C768010	9/16-12	50
C768012	⅝-11	50
C768014	¾-10	25
C768016	⅞-9	25
C768018	1-8	10
C768020	1⅛-7	10
C768022	1¼-7	10

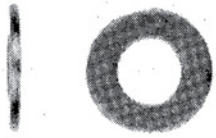
Grade 5 Finished Hex Nuts — Non-Plated



- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 5 specifications
- Carbon steel
- Designed for use with Grade 5 cap screws
- Through-hardened

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
96780	¼-20	96795	¼-28	100
96781	5/16-18	96796	5/16-24	100
96782	⅜-16	96797	⅜-24	100
96783	7/16-14	96798	7/16-20	50
96784	½-13	96799	½-20	50
96785	9/16-12	96800	9/16-18	50
96786	⅝-11	96801	⅝-18	50
96787	¾-10	96802	¾-16	25
96788	⅞-9	96803	⅞-14	25
96789	1-8	96804	1-14	25
96790	1⅛-7	¤96805-11/8	1⅛-12	10
96791	1¼-7	¤96805-11/4	1¼-12	10
*	1⅜-6	¤96805-13/8	1⅜-12	1
96792	1½-6	¤96805-11/2	1½-12	10
*	1¾-5	¤96805-13/4	1¾-12	1
¤99793-2	2-4½	*	-	10

Through-Hardened Flat Washers Narrow (SAE) — Non-Plated

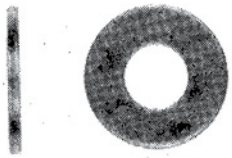


- Made in USA
- Meets ASTM F436 specifications
- Carbon steel
- Non-plated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
99740	¼	9/32	⅝	.051 - .080	200
99741	5/16	11/32	11/16	.051 - .080	200
99742	⅜	13/32	13/16	.051 - .080	200
99743	7/16	15/32	59/64	.051 - .080	100
99744	½	17/32	1 1/16	.097 - .177	100

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
99745	9/16	19/32	1 3/16	.097 - .177	50
99746	⅝	11/16	1 5/16	.122 - .177	50
99747	¾	13/16	1 13/32	.122 - .177	50
99748	⅞	15/16	1¾	.136 - .177	20
99749	1	1⅛	2	.136 - .177	20
99750	1⅛	1¼	2¼	.136 - .177	10
99751	1¼	1⅜	2½	.136 - .177	10
KP47823	1⅜	1½	2¾	.136 - .177	20
99752	1½	1⅝	3	.136 - .177	10
¤99755	1½	1⅝	3	.136 - .177	100
KP47825	1¾	1⅞	3⅜	.178 - .280	10
KP47826	2	2⅛	3¾	.178 - .280	5
KP86956	2¼	2⅜	4	.240 - .340	5
KP47827	2½	2⅝	4½	.240 - .340	5

Through-Hardened Flat Washers Wide (USS) — Non-Plated



- Made in USA
- Meets ANSI B18.22.1 specifications
- Carbon steel
- Non-plated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
99760	¼	5/16	¾	.051 - .080	200
99761	5/16	⅜	⅞	.064 - .104	200
99762	⅜	7/16	1	.064 - .104	200
99763	7/16	½	1¼	.064 - .104	100
99764	½	9/16	1⅜	.086 - .132	100
99765	9/16	⅝	1½	.086 - .132	50
99766	⅝	11/16	1¾	.105 - .160	50
99767	¾	13/16	2	.122 - .177	50
99768	⅞	15/16	2¼	.136 - .192	20
99769	1	1 1/16	2½	.136 - .192	20
99770	1⅛	1¼	2¾	.136 - .192	10
99771	1¼	1⅜	3	.136 - .192	10
99772	1½	1⅝	3½	.136 - .192	10

Grade 5 Lock Washers — Non-Plated



- Meets ANSI/ASME B18.21.1 specifications
- High carbon spring steel
- Through-hardened
- Non-linking

Part No.	Bolt Size (In.)	Unit
✦CD558250	No. 4	1000
✦CD558251	No. 6	100
✦CD558252	No. 8	500
✦CD558253	No. 10	500
✦CD558254	No. 12	100

Continued on next page

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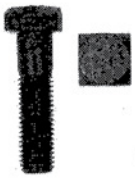
Cap Screws & Matching Components & Bolts 21

Continued from previous page

Part No.	Bolt Size (In.)	Unit
33560	¼	200
33561	5⁄16	200
33562	⅜	200
33563	7⁄16	200
33564	½	200
33565	9⁄16	100
33566	⅝	100
33567	¾	100
33568	⅞	50
33569	1	50
33569-1	1⅛	50
33569-2	1¼	25
33569-3	1½	10

♣Canada only

Grade 5 Square Head Cap Screws



- UNC (USS)
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- Non-plated

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
2105-21/2	¾-10	2½	95
2105-23/4	¾-10	2¾	90
2105-3	¾-10	3	85

Grade 5 Slotted Flat Head Cap Screws



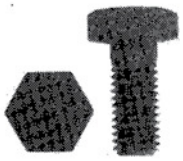
- UNC (USS)
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- Non-plated

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
2010-2	¾-10	2	25
2010-21/2	¾-10	2½	25
2010-3	¾-10	3	25
2010-31/2	¾-10	3½	25
2010-4	¾-10	4	25

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
2020-3	⅞-9	3	25
2020-31/2	⅞-9	3½	25
2020-4	⅞-9	4	25

A325 Hex Head Bolts

Structural Bolts



- UNC (USS)
- Meets ASTM A325 specifications
- Type 1
- Medium carbon steel
- Through-hardened
- 120,000 psi minimum tensile strength
- Non-plated
- Heavy hex dimensions

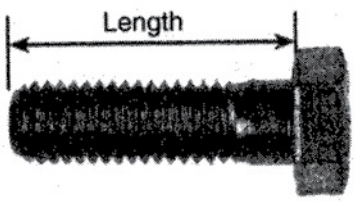
◆Indicates manufacturers identification symbol

Part No.	Dia.-TPI (In.)	Length (In.)	Unit
37000	⅝ -11	1½	75
37001	⅝ -11	1¾	100
37002	⅝ -11	2	75
37003	⅝ -11	2¼	75
37004	⅝ -11	2½	75
37005	⅝ -11	2¾	60
37006	⅝ -11	3	60
37010	⅝ -11	4	50

Part No.	Dia.-TPI (In.)	Length (In.)	Unit
37011	¾ -10	2	50
37012	¾ -10	2¼	50
37013	¾ -10	2½	50
37014	¾ -10	2¾	50
37015	¾ -10	3	50
37016	¾ -10	3¼	50
37017	¾ -10	3½	50
37018	¾ -10	3¾	25
37019	¾ -10	4	30

Part No.	Dia.-TPI (In.)	Length (In.)	Unit
37021	⅞ -9	2	50
37022	⅞ -9	2¼	50
37023	⅞ -9	2½	25
37024	⅞ -9	2¾	30
37025	⅞ -9	3	40
37026	⅞ -9	3¼	25
37027	⅞ -9	3½	25
37028	⅞ -9	3¾	25
37029	⅞ -9	4	25
37030	⅞ -9	4¼	25
37031	⅞ -9	4½	25
37032	⅞ -9	5	25

Grade 2 Hex Head Cap Screws — Plated



- Zinc Plated

UNC Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
49000	¼	½	100
49001	¼	¾	100
49002	¼	1	100
49003	¼	1¼	100
49004	¼	1½	100
49005	¼	1¾	100
49006	¼	2	100
49007	¼	2¼	50
49008	¼	2½	50
49009	¼	2¾	50
49010	¼	3	50

UNC Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
49015	5⁄16	½	100
49016	5⁄16	¾	100
49017	5⁄16	1	100
49018	5⁄16	1¼	100
49019	5⁄16	1½	100
49020	5⁄16	1¾	100
49021	5⁄16	2	50
49022	5⁄16	2¼	50
49023	5⁄16	2½	50
49024	5⁄16	2¾	50
49025	5⁄16	3	50

UNC Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
49030	⅜	½	100
49031	⅜	¾	100
49032	⅜	1	100
49033	⅜	1¼	50
49034	⅜	1½	50
49035	⅜	1¾	50
49036	⅜	2	50
49037	⅜	2¼	25
49038	⅜	2½	25
49039	⅜	2¾	25
49040	⅜	3	25
49041	⅜	3½	25
49042	⅜	4	25

UNC Part No. TPI-13	Dia. (In.)	Length (In.)	Unit
49049	½	1	50
49050	½	1¼	50
49051	½	1½	50
49052	½	1¾	25

Continued on next page

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Continued from previous page

UNC Part No. TPI-13	Dia. (In.)	Length (In.)	Unit
49053	½	2	25
49054	½	2¼	25
49055	½	2½	25
49056	½	2¾	25
49057	½	3	25
49058	½	3½	10
49059	½	4	10
49060	½	4½	10
49061	½	5	10
49062	½	5½	10
49063	½	6	10

UNC Part No. TPI-11	Dia. (In.)	Length (In.)	Unit
49070	⅝	1	25
49071	⅝	1¼	25
49072	⅝	1½	25
49073	⅝	1¾	25
49074	⅝	2	25
49075	⅝	2¼	10
49076	⅝	2½	10
49077	⅝	2¾	10
49078	⅝	3	10
49079	⅝	3½	10
49080	⅝	4	10
49081	⅝	4½	10
49082	⅝	5	10
49083	⅝	5½	10
49084	⅝	6	10

UNC Part No. TPI-10	Dia. (In.)	Length (In.)	Unit
49090	¾	1	10
49091	¾	1¼	10
49092	¾	1½	10
49093	¾	1¾	10
49094	¾	2	10
49095	¾	2¼	10
49096	¾	2½	10
49097	¾	2¾	10
49098	¾	3	10
49099	¾	3½	10
49100	¾	4	10
49101	¾	4½	10
49102	¾	5	5
49103	¾	5½	5
49104	¾	6	5
49105	¾	7	5

UNC Part No. TPI-8	Dia. (In.)	Length (In.)	Unit
49110	⅞	2	10
49111	⅞	2¼	10
49112	⅞	2½	10
49113	⅞	2¾	10
49114	⅞	3	10
49115	⅞	3½	5
49116	⅞	4	5
49117	⅞	4½	5
49118	⅞	5	5
49119	⅞	5½	5
49120	⅞	6	5
49121	⅞	7	5

UNC Part No. TPI-8	Dia. (In.)	Length (In.)	Unit
49130	1	2	5
49131	1	2¼	5
49132	1	2½	5
49133	1	2¾	5
49134	1	3	5
49135	1	3½	5
49136	1	4	5
49137	1	4½	5
49138	1	5	5
49139	1	5½	5
49140	1	6	5
49141	1	7	5

UNC Part No. TPI-7	Dia. (In.)	Length (In.)	Unit
49150	1⅛	4	5
49151	1⅛	4½	5
49152	1⅛	5	5
49153	1⅛	5½	5
49154	1⅛	6	5
49155	1⅛	7	5

UNC Part No. TPI-7	Dia. (In.)	Length (In.)	Unit
49160	1¼	4	5
49161	1¼	4½	5
49162	1¼	5	5
49163	1¼	5½	5
49164	1¼	6	5
49165	1¼	7	5

UNC Part No. TPI-8	Dia. (In.)	Length (In.)	Unit
49170	1⅛	4	5
49171	1⅛	4½	5
49172	1⅛	5	5
49173	1⅛	5½	5
49174	1⅛	6	5
49175	1⅛	7	5

UNC Part No. TPI-8	Dia. (In.)	Length (In.)	Unit
49180	1¼	4	5
49181	1¼	4½	5
49182	1¼	5	5
49183	1¼	5½	5
49184	1¼	6	5
49185	1¼	7	5

T Head Bolts

Grade 5 T-Head Bolts



- UNC (USS)
- Meets SAE J429 Grade 5 and ANSI/ASME B18.5 specifications
- Medium carbon steel
- Through-hardened
- Non-plated

Part No.	Dia. - TPI	Length (In.)	Unit
63230-T	⅜-16	1¼	100
63231-T	⅜-16	1½	100
63232-T	⅜-16	2	50
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63241-T	½-13	1¾	50
63242-T	½-13	2	50
63243-T	½-13	2½	50
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63255-T	¾-10	½	50
63256-T	¾-10	2¾	50
63257-T	¾-10	3	25

Grade 2 Hex Bolts

Muffler Clamp Bolts

Hex Head Cap Screw-Full Thread



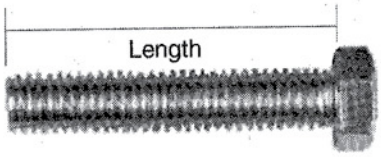
- Zinc plating
- Grade 2
- Use with most muffler clamps

Part No.	Dia-TPI	Length (In.)	Unit
KP28000	¼-20	1¼	100
KP28001	¼-20	1½	100
KP28003	¼-20	2	100
Part No.	**Dia-TPI**	**Length (In.)**	**Unit**
KP28004	5⁄16-18	1¼	100
KP28005	5⁄16-18	1½	100
KP28007	5⁄16-18	2	100
Part No.	**Dia-TPI**	**Length (In.)**	**Unit**
KP28011	⅜-16	2	100

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Hex Head Bolt Full Thread

Fully Threaded
Canada Only



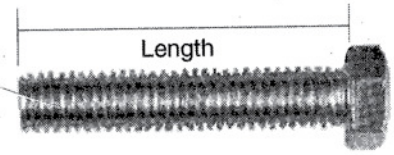
- Duraplate finish protects against rust and corrosion
- Grade 2/A307
- Use with most muffler clamps

Part No.	Dia.	Length	Unit
✦CD28000-1	¼	1¼	50
✦CD28001-1	¼	1½	50
✦CD28003-1	¼	2	50
Part No.	**Dia.**	**Length**	**Unit**
✦CD28005-1	5⁄16	1½	50
✦CD28007-1	5⁄16	2	50
✦CD559719	5⁄16	3	50
Part No.	**Dia.**	**Length**	**Unit**
✦CD559190	⅜	1¼	100
✦CD28011-1	⅜	2	50
✦CD559293	⅜	2½	100
✦CD559325	⅜	3	25
✦CD559391	⅜	4	25
Part No.	**Dia.**	**Length**	**Unit**
✦CD557513	½	2	25
✦CD557812	½	3	25
✦CD557861	½	4	25

✦Canada only

Hex Head Bolt Non-Plated

Fully Threaded
Canada Only



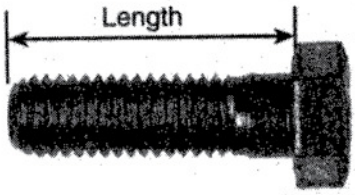
- Plain finish
- Grade 2/A307
- Use with most muffler clamps

Part No.	Dia.	Length	Unit
✦CD558287	¼	1½	50
✦CD558528	¼	2	50
Part No.	**Dia.**	**Length**	**Unit**
✦CD559607	5⁄16	1½	50
✦CD559679	5⁄16	2	50
✦CD559773	5⁄16	4	50
Part No.	**Dia.**	**Length**	**Unit**
✦CD559189	⅜	1½	50
✦CD559273	⅜	2	50
✦CD559292	⅜	2½	25
✦CD559324	⅜	3	25
✦CD559390	⅜	4	25
Part No.	**Dia.**	**Length**	**Unit**
✦CD557512	½	2	25
✦CD557860	½	4	25
Part No.	**Dia.**	**Length**	**Unit**
✦CD560145	⅝	4	10
Part No.	**Dia.**	**Length**	**Unit**
✦CD559047	¾	4	10

✦Canada only

Grade 2 Hex Head Cap Screws

Canada Only



- Duraplate finish protects against rust and corrosion

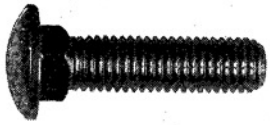
UNC Part No.	Dia.	Length	Unit
✦CD558439	¼	½	100
✦CD558590	¼	¾	100
✦CD558179	¼	1	100
✦CD558228	¼	1½	100
✦CD558519	¼	2	100
UNC Part No.	**Dia.**	**Length**	**Unit**
✦CD559733	5⁄16	¾	100
✦CD559573	5⁄16	1	100
✦CD559598	5⁄16	1½	100
✦CD559671	5⁄16	2	100
✦CD559690	5⁄16	2½	50
✦CD559711	5⁄16	3	50
UNC Part No.	**Dia.**	**Length**	**Unit**
✦CD559347	⅜	¾	100
✦CD559152	⅜	1	100
✦CD559205	⅜	1¼	100
✦CD563800	⅜	1½	100
✦CD559251	⅜	1¾	100
✦CD559264	⅜	2	50
✦CD559304	⅜	2¼	50
✦CD559285	⅜	2½	50
✦CD559315	⅜	3	50
✦CD559382	⅜	4	50
UNC Part No.	**Dia.**	**Length**	**Unit**
✦CD557413	½	1	50
✦CD557450	½	1¼	50
✦CD557432	½	1½	50
✦CD557490	½	2	50
✦CD557801	½	3	25

✦Canada only

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Carriage Bolts

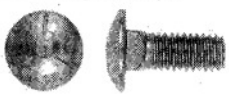
Grade 8 Carriage Bolts
Shaker Screen Bolts



- Fully threaded shaker screen bolts
- Meets industry standards for grade 8
- Zinc clear Unichrome plating

Part No.	Dia-TPI	Length (In.)	Unit
KP64898	⅛-13	2	50
KP64899	¼-13	2½	50
KP64900	¼-13	3	50
KP64901	¼-13	3½	50
KP64902	¼-13	4	50
KP64903	¼-13	4½	50
KP64904	¼-13	5	25
Part No.	**Dia-TPI**	**Length (In.)**	**Unit**
KP64907	⅝-11	2	25
KP64908	⅝-11	2½	25
KP64909	⅝-11	3	25
KP64910	⅝-11	3½	25
KP64911	⅝-11	4	25
KP64912	⅝-11	4½	25
KP64913	⅝-11	5	25
KP64914	⅝-11	6	25
Part No.	**Dia-TPI**	**Length (In.)**	**Unit**
KP64918	¾-10	4	25
KP64919	¾-10	4½	25
KP64920	¾-10	5	25
KP64921	¾-10	5½	25
KP64922	¾-10	6	25

Grade 5 Carriage Bolts



BOWMAN Unichrome PLATING™

- UNC (USS)
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- 120,000 psi minimum tensile strength
- Threaded to square (unless otherwise noted)

Part No.	Dia. - TPI	Thread	Length (In.)	Unit
32198	¼-20	Full	¾	100
32199	¼-20	Full	1	100
32199-1	¼-20	Full	1¼	100
32200	¼-20	Full	1½	100
32200-1	¼-20	Full	1¾	100
32157	¼-20	Full	2	100
KP75217	¼-20	Partial	2	100
32157-1	¼-20	Full	2¼	100
32158	¼-20	Full	2½	100
KP75219	¼-20	Partial	2½	100
32159	¼-20	Full	3	100
KP75220	¼-20	Partial	3	100
32159-1	¼-20	Full	3½	100
32160	¼-20	Full	4	100
KP75222	¼-20	Partial	4	100
32160-41/2	¼-20	Full	4½	100
Part No.	**Dia. - TPI**	**Thread**	**Length (In.)**	**Unit**
32160-3/4	5⁄16-18	Full	¾	100
32160-1	5⁄16-18	Full	1	100
32160-11/4	5⁄16-18	Full	1¼	100
32160-11/2	5⁄16-18	Full	1½	100
32160-13/4	5⁄16-18	Full	1¾	100
32161	5⁄16-18	Full	2	100
KP75226	5⁄16-18	Partial	2	100
32161-1	5⁄16-18	Full	2¼	100
32162	5⁄16-18	Full	2½	100
KP75227	5⁄16-18	Partial	2½	100
32162-1	5⁄16-18	Full	3	100
KP75228	5⁄16-18	Partial	3	100
32162-31/2	5⁄16-18	Full	3½	100
KP75229	5⁄16-18	Partial	3½	50
32162-4	5⁄16-18	Full	4	100
KP75230	5⁄16-18	Partial	4	50
KP71666	5⁄16-18	Full	4½	50
32162-5	5⁄16-18	Full	5	100
32163	5⁄16-18	Full	6	100
Part No.	**Dia. - TPI**	**Thread**	**Length (In.)**	**Unit**
32163-1	⅜-16	Full	¾	50
32164	⅜-16	Full	1	50
32164-11/4	⅜-16	Full	1¼	50
32164-11/2	⅜-16	Full	1½	50
32164-13/4	⅜-16	Full	1¾	50
KP75234	⅜-16	Partial	1¾	100
32164-2	⅜-16	Full	2	50
KP75235	⅜-16	Partial	2	100
32164-21/4	⅜-16	Full	2¼	50
32164-21/2	⅜-16	Full	2½	50
KP75236	⅜-16	Partial	2½	100
32164-23/4	⅜-16	Full	2¾	50
32164-3	⅜-16	Full	3	50
KP75237	⅜-16	Partial	3	100
32164-31/2	⅜-16	Full	3½	50
KP75238	⅜-16	Partial	3½	50

Part No.	Dia. - TPI	Thread	Length (In.)	Unit
32164-4	⅜-16	Full	4	50
KP75239	⅜-16	Partial	4	50
KP75240	⅜-16	Partial	4½	50
KP71675	⅜-16	Full	5	50
32165	⅜-16	Full	6	50
Part No.	**Dia. - TPI**	**Thread**	**Length (In.)**	**Unit**
32176	7⁄16-14	Full	1	50
32176-1	7⁄16-14	Full	1¼	50
32176-2	7⁄16-14	Full	1½	50
32176-3	7⁄16-14	Full	1¾	50
32176-4	7⁄16-14	Full	2	50
KP75242	7⁄16-14	Partial	2	50
32176-5	7⁄16-14	Full	2¼	50
32176-6	7⁄16-14	Full	2½	50
KP75243	7⁄16-14	Partial	2½	50
32177	7⁄16-14	Full	2¾	50
32176-7	7⁄16-14	Full	3	50
*32176-8	7⁄16-14	Full	3½	50
*32176-9	7⁄16-14	Full	4	50
Part No.	**Dia. - TPI**	**Thread**	**Length (In.)**	**Unit**
32165-1	½-13	Full	1	50
32165-5	½-13	Full	1¼	50
32165-2	½-13	Full	1½	50
32168	½-13	Full	1¾	50
30982	½-13	Full	2	50
32169	½-13	Full	2¼	50
32165-3	½-13	Full	2½	50
KP75246	½-13	Partial	2½	50
32169-1	½-13	Full	2¾	50
32165-4	½-13	Full	3	25
KP75247	½-13	Partial	3	50
32165-6	½-13	Full	3½	25
KP75248	½-13	Partial	3½	50
32166	½-13	Full	4	25
32167	½-13	Full	4½	25
32167-1	½-13	Full	5	25
32167-2	½-13	Full	5½	25
C731200	½-13	Full	6	10
Part No.	**Dia. - TPI**	**Thread**	**Length (In.)**	**Unit**
30983	⅝-11	Full	1½	25
30984	⅝-11	Full	1¾	25
30985	⅝-11	Full	2	25
KP75250	⅝-11	Partial	2	50
30985-1	⅝-11	Full	2¼	25
30986	⅝-11	Full	2½	25
KP75251	⅝-11	Partial	2½	50
30986-1	⅝-11	Full	2¾	25
30987	⅝-11	Full	3	25
KP75791	⅝-11	Partial	3	50
30988	⅝-11	Full	3½	25
KP75792	⅝-11	Partial	3½	50
30989	⅝-11	Full	4	25
KP75252	⅝-11	Partial	4	50
32170	⅝-11	Full	4½	25
32171	⅝-11	Full	5	25
32171-1	⅝-11	Full	5½	25
32171-2	⅝-11	Full	6	25
32171-3	⅝-11	Full	6½	25
Part No.	**Dia. - TPI**	**Thread**	**Length (In.)**	**Unit**
32171-4	¾-10	Full	3	10
32171-5	¾-10	Full	3½	10
32171-6	¾-10	Full	4	10
32172	¾-10	Full	4½	10
32173	¾-10	Full	5	10
32174	¾-10	Full	5½	10
32175	¾-10	Full	6	10

*Not full thread

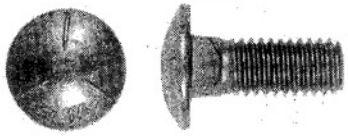
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Bolts

Grade 5 Carriage Bolts
Round Head with Square Neck

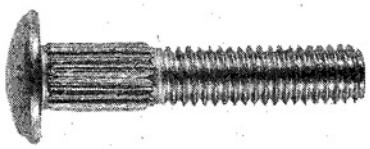


- Non-plated
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- 120,000 psi minimum tensile strength
- Threaded to square (unless otherwise noted)

Part No.	Dia.-TPI	Length(In.)	Unit
34620-1	¼-20	1	100
34620-11/4	¼-20	1¼	100
34620-11/2	¼-20	1½	100
34620-2	¼-20	2	100
34620-21/2	¼-20	2½	100
34620-3	¼-20	3	100
34620-31/2	¼-20	3½	100
34620-4	¼-20	4	100
Part No.	**Dia.-TPI**	**Length(In.)**	**Unit**
34621-1	5⁄16-18	1	100
34621-11/2	5⁄16-18	1½	100
34621-2	5⁄16-18	2	100
34621-21/2	5⁄16-18	2½	100
34621-3	5⁄16-18	3	100
34621-31/2	5⁄16-18	3½	100
34621-4	5⁄16-18	4	100
34621-5	5⁄16-18	5	100
Part No.	**Dia.-TPI**	**Length(In.)**	**Unit**
34622-1	⅜-16	1	100
34622-11/2	⅜-16	1½	100
34622-2	⅜-16	2	100
34622-21/4	⅜-16	2¼	50
34622-3	⅜-16	3	50
34622-31/2	⅜-16	3½	50
34622-4	⅜-16	4	50
34622-5	⅜-16	5	50
34622-6	⅜-16	6	50
34622-7	⅜-16	7*	50
34622-9	⅜-16	9*	50
Part No.	**Dia.-TPI**	**Length(In.)**	**Unit**
34623-1	½-13	1	50
34623-11/2	½-13	1½	50
34623-13/4	½-13	1¾	50
34623-2	½-13	2	50
34623-21/2	½-13	2½	50
34623-3	½-13	3	50
34623-31/2	½-13	3½	25
34623-4	½-13	4	25
34623-41/2	½-13	4½	25
34623-51/2	½-13	5½	25
Part No.	**Dia.-TPI**	**Length(In.)**	**Unit**
34624-1	⅝-11	1	25
34624-2	⅝-11	2	25
✦CD560081	⅝-11	2¼	25
✦CD560065	⅝-11	2½	25
✦CD560099	⅝-11	3	25
34626-31/2	⅝-11	3½	25
34626-4	⅝-11	4	25
34626-41/2	⅝-11	4½	25
34626-51/2	⅝-11	5½	25

*Not threaded to head ✦Canada only

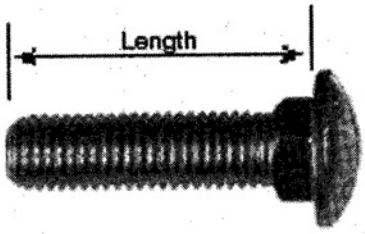
Grade 5 Ribbed Neck Carriage Bolts



- Straight ribs around the shank grip the material and resist spinning of the bolt in the hole
- Excellent for trailer repair
- 120,000 psi tensile strength
- Zinc plated steel resists corrosion.

Part No.	Dia. TPI	Length (In.)	Unit
C29717	¼-20	1	50
C29718	¼-20	1 ¼	50
C29719	¼-20	1½	50
C29720	¼-20	2	50
C29721	5⁄16-18	1	50
C29722	5⁄16-18	1 ¼	50
C29723	5⁄16-18	1 ½	50
C29724	5⁄16-18	2	50
C29725	⅜-16	1	50
C29726	⅜-16	1 ¼	50
C29727	⅜-16	1 ½	50
C29728	⅜-16	2	50
C29729	⅜-16	2 ½	25

Grade 5 Shaker Screen Bolts
Canada Only

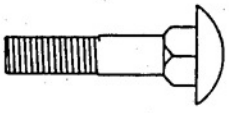


- Fully threaded shaker screen bolt
- Packaged without nuts
- UNC threads

Part No.	Dia. TPI	Length (In.)	Unit
✦CD560102	⅝	3	25
✦CD560118	⅝	3½	25
✦CD560144	⅝	4	25
✦CD560157	⅝	4½	25

✦Canada only

Carriage Bolts
Round Head with Square Neck *



BOWMAN Unichrome PLATING™

- UNC (USS)
- Low carbon steel
- Zinc plated with chromate coating
- Threaded to square (unless otherwise noted)

Part No.	Dia.-TPI	Length (In.)	Unit
34571	No. 10-24	½	100
34573	No. 10-24	¾	100
34574	No. 10-24	1	100
¤34574-1	No. 10-24	1¼	100
34574-2	No. 10-24	1½	100
¤34574-3	No. 10-24	1¾	100
34574-4	No. 10-24	2	100
Part No.	**Dia.-TPI**	**Length (In.)**	**Unit**
34572	¼-20	½	100
34575	¼-20	¾	100
34576	¼-20	1	100
34577	¼-20	1¼	100
34578	¼-20	1½	100
34578-1	¼-20	1¾	100
34579	¼-20	2	100
34579-1	¼-20	2¼	100
34580	¼-20	2½	100
34581	¼-20	3	100
34582	¼-20	3½	100
34583	¼-20	4	100
34584	¼-20	4½	100
34585	¼-20	5	100
34586	¼-20	5½	100
34587	¼-20	6	100
¤*34588	¼-20	6½	50
¤*34589	¼-20	7	50
Part No.	**Dia.-TPI**	**Length (In.)**	**Unit**
34600	5⁄16-18	¾	50
34601	5⁄16-18	1	50
34602	5⁄16-18	1¼	50
34603	5⁄16-18	1½	50
34603-1	5⁄16-18	1¾	50
34604	5⁄16-18	2	50
34605	5⁄16-18	2½	50
34606	5⁄16-18	3	50
34607	5⁄16-18	3½	50
34608	5⁄16-18	4	50
34609	5⁄16-18	4½	50
34610	5⁄16-18	5	50
34611	5⁄16-18	5½	50
34612	5⁄16-18	6	50
*34614	5⁄16-18	7	50
*34615	5⁄16-18	7½	50
*34616	5⁄16-18	8	50
Part No.	**Dia.-TPI**	**Length (In.)**	**Unit**
34625	⅜-16	¾	50
34626	⅜-16	1	50
34627	⅜-16	1¼	50
34628	⅜-16	1½	50
34628-1	⅜-16	1¾	50
34629	⅜-16	2	50
34629-1	⅜-16	2¼	50
34630	⅜-16	2½	50
¤34630-1	⅜-16	2¾	50
34631	⅜-16	3	50
34632	⅜-16	3½	50
34633	⅜-16	4	50
34634	⅜-16	4½	50
34635	⅜-16	5	50
34636	⅜-16	5½	50
34637	⅜-16	6	50
*34639	⅜-16	7	25
*34641	⅜-16	8	25
Part No.	**Dia.-TPI**	**Length (In.)**	**Unit**
34651	7⁄16-14	1	50
34652	7⁄16-14	1¼	50
34653	7⁄16-14	1½	50
34653-1	7⁄16-14	1¾	50

Continued on next page

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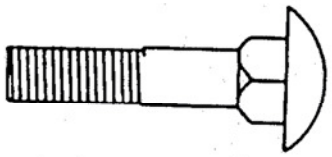
Part No.	Dia.-TPI	Length (In.)	Unit
34654	7/16-14	2	50
34654-1	7/16-14	2¼	50
34655	7/16-14	2½	50
34656	7/16-14	3	50
¤34657	7/16-14	3½	50
¤34658	7/16-14	4	50
¤34660	7/16-14	5	50

Part No.	Dia.-TPI	Length (In.)	Unit
34677	½-13	1	50
34678	½-13	1½	50
34678-1	½-13	1¾	50
34679	½-13	2	50
34680	½-13	2½	50
34681	½-13	3	50
34682	½-13	3½	50
34683	½-13	4	50
34684	½-13	4½	50
34685	½-13	5	50
34686	½-13	5½	50
34687	½-13	6	50
34689	½-13	7	25
*34690	½-13	7½	25
*34690-1	½-13	8	25

Part No.	Dia.-TPI	Length (In.)	Unit
KP1080-2	5/8-11	1½	15
34691	5/8-11	2	25
34692	5/8-11	2½	25
34694	5/8-11	3	25
34694-31/2	5/8-11	3½	25
34694-4	5/8-11	4	25
¤34694-41/2	5/8-11	4½	10
34694-5	5/8-11	5	10
¤34694-51/2	5/8-11	5½	10
34694-6	5/8-11	6	10
¤34694-61/2	5/8-11	6½	10
*34694-7	5/8-11	7	10
*34694-8	5/8-11	8	10

* Not full thread

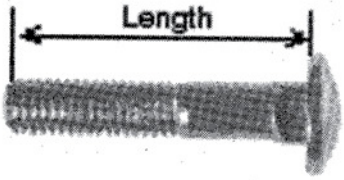
Grade 2 Galvanized Carriage Bolts



- Hot dip galvanized plating
- 74,000 psi tensile strength. All diameters 3/4" and above have 60,000 psi tensile strength

Part No.	Dia. TRI	Length (In.)	Unit
C97479	¼-20	1	100
C97480	¼-20	1½	100
C97481	¼-20	2	100
C97482	¼-20	2½	100
C97483	¼-20	3	100
C97484	¼-20	3½	100
C97485	¼-20	4	100
C97487	¼-20	5	100
C97489	¼-20	6	100
C97493	5/16-18	1	100
C97494	5/16-18	1½	100
C97495	5/16-18	2	100
C97496	5/16-18	2½	100
C97497	5/16-18	3	100
C97498	5/16-18	3½	100
C97499	5/16-18	4	100
C97501	5/16-18	5	100
C97503	5/16-18	6	50
C97505	5/16-18	8	50
C97507	3/8-18	1	100
C97508	3/8-18	1½	100
C97509	3/8-18	2	100
C97510	3/8-18	2½	100
C97511	3/8-18	3	100
C97512	3/8-18	3½	100
C97513	3/8-18	4	100
C97515	3/8-18	5	50
C97517	3/8-18	6	50
C97519	3/8-18	8	50
C97520	3/8-18	10	10
C97521	3/8-18	12	10
C97523	½-13	2	50
C97524	½-13	2½	50
C97525	½-13	3	50
C97526	½-13	3½	50
C97527	½-13	4	50
C97529	½-13	5	25
C97531	½-13	6	25
C97533	½-13	8	25
C97534	½-13	10	10
C97535	½-13	12	10

Grade 2 Carriage Bolts
Plain Finish - Canada Only



- Packaged without nuts
- UNC threads

UNC Part No.	Dia.	Length (In.)	Unit
✤CD558568	¼	3	50
✤CD558671	¼	6	50

UNC Part No.	Dia.	Length (In.)	Unit
✤CD559576	5/16	1	100
✤CD559693	5/16	2½	50
✤CD559714	5/16	3	50

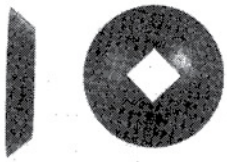
UNC Part No.	Dia.	Length (In.)	Unit
✤CD559318	3/8	3	50
✤CD559337	3/8	3½	50
✤CD559385	3/8	4	50
✤CD559430	3/8	6	25

UNC Part No.	Dia.	Length (In.)	Unit
✤CD557855	½	4	25
✤CD557872	½	4½	25
✤CD557881	½	5	25
✤CD557897	½	6	25
✤CD557907	½	7	25
✤CD557914	½	8	25
✤CD557922	½	10	10

UNC Part No.	Dia.	Length (In.)	Unit
✤CD560098	5/8	3	10
✤CD560141	5/8	4	10
✤CD560156	5/8	4½	10
✤CD560168	5/8	5	10

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Carriage Bolt Adapters

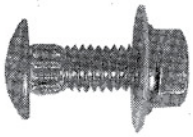


- Black 101 nylon construction
- Allows you to raise a carriage bolt head so the square neck does not affect a drilled hole

Part No.	Size (In.)	Height (In.)	O.D. (In.)	Unit
¤48019	5/16	.20	1.2	100
¤48020	3/8	.20	1.2	100

Crossmember Repair Kit

Crossmember Rail Repair Kit



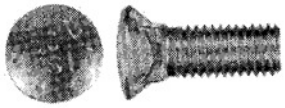
- Kit includes:
  8 - 3/8-16 x 1-1/4" Grade 5 Ribbed Neck Carriage Bolts (C29726)
  8 - 3/8 x 1" Nylon Washer (37134)
  8 - 3/8-16 Berrated Flange Hex Nuts (34294)
- Zinc plating

Part No.	Unit
59325	1

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Plow Bolts

Grade 8 Plow & Blade Bolts



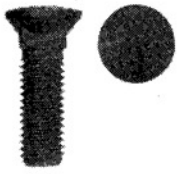
BOWMAN Gold Unichrome PLATING™

- UNC (USS)
- Meets SAE J429 Grade 8 specifications
- Medium carbon alloy steel
- Through-hardened
- No. 3 head (round, countersunk, square neck)
- 150,000 psi minimum tensile strength

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
37777	⅝-11	1¾	25
37778	⅝-11	2	25
37779	⅝-11	2¼	25
37780	⅝-11	2½	25
37781	⅝-11	2¾	25
37782	⅝-11	3	25
37783	⅝-11	3½	25
37784	⅝-11	4	25
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
37789	¾-10	2¼	25
37790	¾-10	2½	25
37791	¾-10	2¾	25
37792	¾-10	3	25
37794	¾-10	3½	10
37796	¾-10	4	10
37797	¾-10	4½	10
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
37800	⅞-9	2½	25
37801	⅞-9	3	25
37802	⅞-9	3½	25
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
37810	1-8	2¾	25
37811	1-8	3	25
37812	1-8	3½	25
37814	1-8	4	10
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
37817	1¼-7	4	10

NOTE: Install with Bowmalloy hex nuts 36601-36610-2

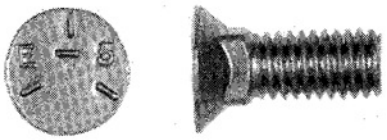
Grade 8 Plow & Blade Bolts — Non-Plated



- UNC (USS)
- Meets SAE J429 Grade 8 specifications
- Medium carbon alloy steel
- Through-hardened
- No. 3 head (round, countersunk, square neck)
- 150,000 psi minimum tensile strength

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
37689	½-13	1	25
37690	½-13	1¼	25
37691	½-13	1½	25
37692	½-13	1¾	25
37693	½-13	2	25
37694	½-13	2¼	25
37695	½-13	2½	25
37696	½-13	2¾	25
37697	½-13	3	25
37698	½-13	3½	25
37699	½-13	4	25
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
C736530	⅝-11	1½	25
37700	⅝-11	1¾	25
37701	⅝-11	2	25
37702	⅝-11	2¼	25
37703	⅝-11	2½	25
37704	⅝-11	2¾	25
37705	⅝-11	3	25
37706	⅝-11	3½	25
37707	⅝-11	4	25
C39272	⅝-11	4½	10
C39273	⅝-11	5	10
C39274	⅝-11	6	10
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
C39275	¾-10	2	25
37708	¾-10	2¼	25
37709	¾-10	2½	25
37710	¾-10	2¾	25
37711	¾-10	3	25
37712	¾-10	3½	25
37713	¾-10	4	25
37714	¾-10	4½	25
C39282	¾-10	5	10
C39283	¾-10	6	10
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
C39284	⅞-9	2¼	10
37715	⅞-9	2½	10
C737610	⅞-9	2¾	10
37716	⅞-9	3	10
37717	⅞-9	3½	10
C39288	⅞-9	4	5
C39289	⅞-9	4½	5
C39290	⅞-9	5	5
C39291	⅞-9	6	5
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
C737708	1-8	2½	5
37718	1-8	2¾	10
37719	1-8	3	10
C737714	1-8	3¼	5
37720	1-8	3½	10
C39294	1-8	3¾	5
37721	1-8	4	10
C39296	1-8	4½	5
C39297	1-8	5	5
C39298	1-8	6	5
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
37723	1¼	3	5
37722	1¼-7	4	5
C24043	1¼-7	4	25
C737822	1¼-7	4½	5
C24044	1¼-7	4½	25
C737824	1¼-7	5	5
C24045	1¼-7	5	25
C24046	1¼-7	5½	25

Grade 5 Plow & Blade Bolts

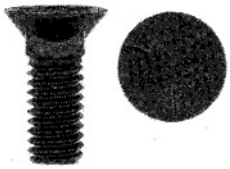


BOWMAN Unichrome PLATING™

- UNC (USS)
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- 120,000 psi minimum tensile strength
- No. 3 countersunk head with square shoulder

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
33724-1	⅜-16	1	50
33724-11/4	⅜-16	1¼	50
33724-2	⅜-16	1½	50
¤33724-3	⅜-16	1¾	50
33724-4	⅜-16	2	50
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
¤33725-11/4	7⁄16-14	1¼	50
33725-2	7⁄16-14	1½	50
33725-3	7⁄16-14	1¾	50
33725-4	7⁄16-14	2	50
¤33725-5	7⁄16-14	2¼	50
33725-6	7⁄16-14	2½	50
33725-8	7⁄16-14	3	50
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
33726-1	½-13	1½	50
¤33726-2	½-13	1¾	50
33726-3	½-13	2	50
33726-5	½-13	2½	50
33726-7	½-13	3	50
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
33729	⅝-11	2	25
33730	⅝-11	2¼	25
33731	⅝-11	2½	25
33732	⅝-11	3	25
33733	⅝-11	3½	25

Grade 5 Plow & Blade Bolts — Non-Plated



- UNC (USS)
- Meets SAE J429 Grade 5 specifications
- Medium carbon steel
- Through-hardened
- 120,000 psi minimum tensile strength
- No. 3 flat head (dome head ⅛ " diameter only), square neck

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
33740	⅜-16	1	50
33742	⅜-16	1½	50
33743	⅜-16	1¾	50
33744	⅜-16	2	50
C80698	⅜-16	2½	25

Continued on next page

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Continued from previous page

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
¤C80699	7/16-14	1	50
33745	7/16-14	1¼	50
33746	7/16-14	1½	50
33747	7/16-14	1¾	50
33748	7/16-14	2	50
33749	7/16-14	2¼	50
33750	7/16-14	2½	50
33751	7/16-14	3	50
¤C29853	7/16-14	3½	25

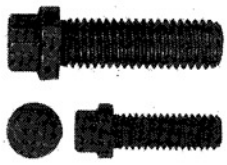
Part No.	Dia. - TPI (In.)	Length (In.)	Unit
33752	½-13	1½	50
33754	½-13	1¾	50
33755	½-13	2	50
KP54163	½-13	2¼	50
33756	½-13	2½	50
33757	½-13	3	50

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
33758	5/8-11	1¾	25
33759	5/8-11	2	25
33760	5/8-11	2¼	25
33761	5/8-11	2½	25
33762	5/8-11	3	25
33763	5/8-11	3½	25
KP70680	5/8-11	4	25

Counterbore 12 Point Flange Bolts

Counterbore Screws

1960 Series Head Type - 12 Point Flange



- UNC (USS) and UNF (SAE)
- Meets ANSI/ASME B18.3 dimensional specifications
- Class 3A thread fit
- Medium carbon alloy steel
- Through-hardened
- 170,000 psi minimum tensile strength
- Black finish

UNC (USS) Part No. TPI-20	UNF (SAE) Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
34695-1/2		¼	½	10
34695-3/4		¼	¾	10
34695-1	*	¼	1	10
C739010	*	¼	1¼	25
C739012	*	¼	1½	25
C739016	*	¼	2	25

UNC (USS) Part No. TPI-18	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
34696-3/4	34796-3/4	5/16	¾	10
34696-1	34796-1	5/16	1	10
34696-11/4	C739061	5/16	1¼	25
34696-11/2	34796-11/2	5/16	1½	10
34696-2	*	5/16	2	10
34696-21/4	*	5/16	2¼	10

UNC (USS) Part No. TPI-16	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
34697-3/4	34797-3/4	3/8	¾	10
34697-1	34797-1	3/8	1	10
34697-11/4	34797-11/4	3/8	1¼	10
34697-11/2	34797-11/2	3/8	1½	10
34697-13/4	*	3/8	1¾	10
34697-2	*	3/8	2	10
34697-21/2	*	3/8	2½	10

UNC (USS) Part No. TPI-14	UNF (SAE) Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
34698-1	*	7/16	1	10
2055		7/16	1¼	10
34698-11/2	*	7/16	1½	10
34698-2	*	7/16	2	10
34698-21/2	*	7/16	2½	10

UNC (USS) Part No. TPI-13	UNF (SAE) Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
34699-1	34799-1	½	1	10
34699-11/4	*	½	1¼	10
34699-11/2	34799-11/2	½	1½	10
34699-13/4	*	½	1¾	10
34699-2		½	2	10
C739216		½	2½	10
C739220		½	3	10

UNC (USS) Part No. TPI-11	UNF (SAE) Part No. TPI-	Dia. (In.)	Length (In.)	Unit
34700-11/4	*	5/8	1¼	10
34700-11/2	*	5/8	1½	10
34700-13/4	*	5/8	1¾	10
2054	*	5/8	2	25
34700-21/4	*	5/8	2¼	10

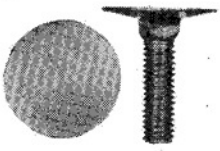
UNC (USS) Part No. TPI-11	UNF (SAE) Part No. TPI-	Dia. (In.)	Length (In.)	Unit
34700-21/2	*	5/8	2½	10
34700-3	*	5/8	3	10

UNC (USS) Part No. TPI-10	UNF (SAE) Part No. TPI-	Dia. (In.)	Length (In.)	Unit
34701-21/2	*	¾	2½	10
34701-4	*	¾	4	10

Elevator Bolts

Elevator Bolts

Flat Countersunk Head with Square Neck



- UNC (USS)
- Low carbon steel
- Zinc plated

Part No.	Dia.-TPI	Length (In.)	Unit
33800	¼-20	¾	100
33802	¼-20	1	100
33803	¼-20	1¼	100
33804	¼-20	1½	100
33805	¼-20	1¾	100

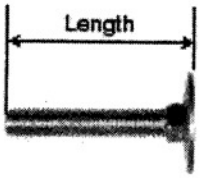
Part No.	Dia.-TPI	Length (In.)	Unit
33806	¼-20	2	100
33807	¼-20	2½	100
33808	¼-20	3	50

Part No.	Dia.-TPI	Length (In.)	Unit
33812	5/16-18	1	50
33813	5/16-18	1¼	50
33814	5/16-18	1½	50
33816	5/16-18	2	50
33818	5/16-18	2½	50

Part No.	Dia.-TPI	Length (In.)	Unit
33821	3/8-16	1¼	50
33822	3/8-16	1½	50
KP68	3/8-16	1¾	50
33824	3/8-16	2	50
KP70	3/8-16	2½	50

Norway #1 Flat Head Elevator Bolts

Plain Finish - Canada Only



Part No.	Dia.	Length (In.)	Unit
✦CD558184	¼	1	100
✦CD558410	¼	1¼	100
✦CD558266	¼	1½	100
✦CD558523	¼	2	100

Part No.	Dia.	Length (In.)	Unit
✦CD559578	5/16	1	50
✦CD559621	5/16	1½	50
✦CD559604	5/16	1½	50
✦CD559676	5/16	2	50

Part No.	Dia.	Length (In.)	Unit
✦CD559210	3/8	1¼	50
✦CD559185	3/8	1½	50
✦CD559269	3/8	2	50
✦CD671248	3/8	2½	50

✦Canada only

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Part No.	Dia.-TPI	Unit
38653	5/16-18	10
38653-1	5/16-18	10
38654	5/16-18	10
38654-1	5/16-18	5
38654-2	5/16-18	5
Part No.	**Dia.-TPI**	**Unit**
38655	3/8-16	10
38655-1	3/8-16	10
38656	3/8-16	10
38656-1	3/8-16	5
38657	3/8-16	10
38657-1	3/8-16	5
Part No.	**Dia.-TPI**	**Unit**
38657-2	1/2-13	10
38658	1/2-13	10
38658-1	1/2-13	10
38659	1/2-13	10
38659-1	1/2-13	5
38660-1	1/2-13	5
38660-2	1/2-13	5
Part No.	**Dia.-TPI**	**Unit**
38663	5/8-11	5
38664	5/8-11	5
38665	5/8-11	1
38666	5/8-11	1
Part No.	**Dia.-TPI**	**Unit**
38668	3/4-10	5
38669	3/4-10	5
38901	3/4-10	1
38903	3/4-10	1
Part No.	**Dia.-TPI**	**Unit**
38910	7/8-9	1
38914	7/8-9	1
Part No.	**Dia.-TPI**	**Unit**
38922	1-8	1

Closed Eyebolt Dimensions

Part No.	Shank Lgth. (In.)	Thread Lgth. (In.)	OAL (In.)	Eye I.D. (In.)	Eye O.D. (In.)
38651	2	1½	3	½	1
38651-1	3	1½	4	½	1
38652	4	2	5	½	1
38652-1	5	2½	6	½	1
38652-2	6	3	7	½	1
Part No.	**Shank Lgth. (In.)**	**Thread Lgth. (In.)**	**OAL (In.)**	**Eye I.D. (In.)**	**Eye O.D. (In.)**
38653	2¼	1½	3½	⅝	1¼
38653-1	3¼	1½	4½	⅝	1¼
38654	4¼	2½	5½	⅝	1¼
38654-1	5	2½	6¼	⅝	1¼
38654-2	6	3	7¼	⅝	1¼
Part No.	**Shank Lgth. (In.)**	**Thread Lgth. (In.)**	**OAL (In.)**	**Eye I.D. (In.)**	**Eye O.D. (In.)**
38655	2½	1½	4	¾	1½
38655-1	3	1½	4½	¾	1½
38656	4¼	2	5¾	¾	1½
38656-1	5	2½	6½	¾	1½
38657	6	3	7½	¾	1½
38657-1	8	4	9½	¾	1½
Part No.	**Shank Lgth. (In.)**	**Thread Lgth. (In.)**	**OAL (In.)**	**Eye I.D. (In.)**	**Eye O.D. (In.)**
38657-2	2	1⅞	4	1	2
38658	3¼	1½	5¼	1	2
38658-1	4½	2	6½	1	2
38659	6	3	8	1	2
38659-1	8	4	10	1	2
38660-1	10	4	12	1	2
38660-2	12	4	14	1	2
Part No.	**Shank Lgth. (In.)**	**Thread Lgth. (In.)**	**OAL (In.)**	**Eye I.D. (In.)**	**Eye O.D. (In.)**
38663	4½	2	6½	1¼	2 5/16
38664	6	3	8 5/16	1¼	2 5/16
38665	8	4	10 5/16	1¼	2 5/16
38666	10	4	12 5/16	1¼	2 5/16
Part No.	**Shank Lgth. (In.)**	**Thread Lgth. (In.)**	**OAL (In.)**	**Eye I.D. (In.)**	**Eye O.D. (In.)**
38668	4½	2½	7¼	1½	2¾
38669	6	3	8¾	1½	2¾
38901	10	4	12¾	1½	2¾
38903	15	6	17¾	1½	2¾
Part No.	**Shank Lgth. (In.)**	**Thread Lgth. (In.)**	**OAL (In.)**	**Eye I.D. (In.)**	**Eye O.D. (In.)**
38910	5	2½	8¼	1¾	3¼
38914	24	6	27¼	1¾	3¼
Part No.	**Shank Lgth. (In.)**	**Thread Lgth. (In.)**	**OAL (In.)**	**Eye I.D. (In.)**	**Eye O.D. (In.)**
38922	12	4	15¾	2	3¾

*NOT FOR OVERHEAD LIFTING!

Crosby Forged Eye Bolts

Crosby® Forged Eye Bolts



- Recommended for straight line pull
- All bolts hot dip galvanized after threading
- Furnished with standard hot dip galvanized hex nuts
- Forged steel - quenched and tempered
- Fatigue tested to 1½ times the working load limit for 20,000 cycles

Part No.	Shank Dia. & Lgth. (In)	Working Load Limits (Lbs.)	Weight per 100 (Lbs.)	Unit
✦50432	¼ x 4	650	11.70	5
✦50433	5/16 x 4¼	1200	25.00	5
✦50434	⅜ x 4½	1550	29.50	5
✦50435	½ x 3¼	2600	50.30	5
✦50436	⅝ x 4	5200	103.10	5
✦50437	¾ x 4½	7200	168.60	5
✦50438	⅞ x 5	10600	270.00	2
✦50439	1 x 6	13300	421.00	2

✦Part numbers available in Canada only.

Turned Eye Bolts

Turned Eye Bolts
Light-Duty Type*



- NOT FOR OVERHEAD LIFTING
- UNC (USS)
- Low carbon steel
- Not heat treated
- Zinc plated
- With one grade 2 nut per eye bolt

Part No.	Dia.-TPI	OAL (In.)	Unit
C33019	No. 10-24	1⅜	25
C89379	No. 10-24	2	25
C33020	No. 10-24	2½	25
Part No.	**Dia.-TPI**	**OAL (In.)**	**Unit**
38634	No. 12-24	2¼	25
Part No.	**Dia.-TPI**	**OAL (In.)**	**Unit**
38630	¼-20	2	25
38631	¼-20	2½	25
38632	¼-20	3	25
38633	¼-20	4	25
Part No.	**Dia.-TPI**	**OAL (in.)**	**Unit**
C33022	5/16-18	3¼	25
38635	5/16-18	3⅜	25
C189214	5/16-18	4	25
38636	5/16-18	4⅛	25
C189218	5/16-18	.6	25
Part No.	**Dia.-TPI**	**OAL (In.)**	**Unit**
38641	⅜-16	4	25
C189222	⅜-16	5	10
C33026	⅜-16	6	10
C4385	⅜-16	8	5
Part No.	**Dia.-TPI**	**OAL (In.)**	**Unit**
C33027	½-13	4	10
C4386	½-13	6	10
C4387	½-13	8	5
C95604	½-13	10	5
C95605	½-13	12	5

Turned Eye Bolt Dimensions

Part No.	Shank Lgth. (In.)	Thread Lgth. (In.)	OAL (In.)	Eye I.D. (In.)
C33019	⅞	⅝	1⅜	5/16
C89379	1 1/16	1¼	2	5/16
C33020	1⅜	1¼	2½	5/16
38634	1½	1⅜	2¼	⅜
38630	1	⅞	2	½
38631	1½	1¼	2½	½
38632	2	1¼	3	½
38633	3	1½	4	½
C33022	2	1¾	3¼	5/16
38635	2¼	2	3⅜	5/16

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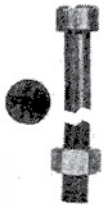
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Spring Center Bolts

Spring Center Bolts



- UNF (SAE)
- Low carbon steel
- Includes one Unichrome™ plated SAE J995 Grade 5 hex nut per bolt
- Non-plated

Part No.	Dia.-TPI	Length (In.)	Head	Unit
32502	5/16-24	5	F	10
Part No.	**Dia.-TPI**	**Length (In.)**	**Head**	**Unit**
KP1987	3/8-24	4	F	25
32516	3/8-24	6	F	10
32518	3/8-24	8	F	10
32519	3/8-24	10	F	10
32520	3/8-24	12	F	10
Part No.	**Dia.-TPI**	**Length (In.)**	**Head**	**Unit**
32522	7/16-20	4	F	10
32523	7/16-20	6	F	10
32525	7/16-20	8	F	10
C7534	7/16-20	10	F	10
32530	7/16-20	12	F	10
Part No.	**Dia.-TPI**	**Length (In.)**	**Head**	**Unit**
32535	1/2-20	8	F	10
32537	1/2-20	10	HF†	10
32539	1/2-20	12	HF†	10
32540	1/2-20	12	F	10
32542	1/2-20	14	F	10

†Not supplied with nut

Roller Coaster Bolts

Roller Coaster Bolts



- Unslotted flat countersunk (82°) head machine bolt
- Low carbon 1008-1010 cold rolled steel
- Zinc plated with clear chromate finish
- Standard three-inch thread length on all bolts

Part No.	Dia. TPI	Length (In.)	Thread Length (In.)	Unit
RC100-321-11	3/8-16	11	3	200
RC100-321-12	3/8-16	12	3	200
RC100-321-13	3/8-16	13	3	150
RC100-321-14	3/8-16	14	3	175
RC100-321-16	3/8-16	16	3	175

High Strength Universal Studs

Grade 8 Universal Studs



BOWMAN Gold Unichrome PLATING™

- UNC (USS) and UNF (SAE)
- Alloy steel
- Through-hardened
- Meets SAE Grade 8 requirements

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
36956	5/16-24 x 5/8	5/16-18 x 1/2	1 1/4	25
*CD560513	5/16-18 X 7/16	5/16-18 X 1/8	1 1/2	10
36957	5/16-24 x 3/4	5/16-18 x 9/16	1 1/2	25
36959	5/16-24 x 1	5/16-18 x 5/8	2	25
*CD560514	5/16-18 X 7/16	5/16-18 X 1	2	10
*CD560530	3/8-16 X 7/16	3/8-16 X 1 1/2	2 7/32	10
*CD560531	3/8-16 X 7/16	3/8-16 X 1	3 5/16	10
Part No.	**UNF Thd. Dia.-TPI x Lgth. (In.)**	**UNC Thd. Dia.-TPI x Lgth. (In.)**	**OAL (In.)**	**Unit**
36965	3/8-24 x 3/4	3/8-16 x 1/2	1 1/2	25
36966	3/8-24 x 1	3/8-16 x 9/16	1 3/4	25
36967	3/8-24 x 1 1/16	3/8-16 x 5/8	2	25
*CD560454	3/8-16 X 5/8	3/8-16 X 1	2 1/8	10
36968	3/8-24 x 1 1/4	3/8-16 x 1/2	2 1/4	25
36969	3/8-24 x 1 1/2	3/8-16 x 5/8	2 1/2	15
*CD560456	3/8-16 X 3/4	3/8-24 X 1	2 3/4	10
36971	3/8-24 x 2	3/8-16 x 5/8	3	15
*CD560517	3/8-16 X 3/8	3/8-16 X 1 1/8	2	10
*CD560455	3/8-16 X 3/4	3/8-16 X 2	4	10
*CD560457	3/8-16 X 5/8	3/8-24 X 1 15/16	4	10

Continued on next page

Hook Bolts

Hook Bolts

Light-Duty Type*



- NOT FOR OVERHEAD LIFTING
- UNC (USS)
- Medium carbon steel
- Through-hardened
- Zinc plated

Part No.	Dia.-TPI	Length (In.)	Unit
C87649	1/2-13	4	10
KP1955	1/2-13	4 1/2	25
30975	1/2-13	5	10
30976	1/2-13	6	10
Part No.	**Dia.-TPI**	**Length (In.)**	**Unit**
30977	5/8-11	5	10
30978	5/8-11	6	10

*NOT FOR OVERHEAD LIFTING!

Bumper Bolts

Bumper Bolts

Round Head With Square Neck



- UNC (USS)
- Carbon steel bolt
- Stainless steel cap
- Includes nuts
- Zinc plated with chromate coating

Part No.	Dia.-TPI	Length (In.)	Unit
32993	3/8-16	1	10
32952	7/16-14	1 1/2	10

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Continued from previous page

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
36976	7/16-20 x 7/8	7/16-14 x 3/4	1 3/4	25
36977	7/16-20 x 15/16	7/16-14 x 3/4	2	25
36978	7/16-20 x 1 1/16	7/16-14 x 1 3/16	2 1/4	25
36979	7/16-20 x 1	7/16-14 x 7/8	2 1/2	15
36980	7/16-20 x 1 11/16	7/16-14 x 3/4	2 3/4	15
36981	7/16-20 x 1 13/16	7/16-14 x 1 3/16	3	10
*CD560500	1/2-13 X 3/4	1/2-20 X 2	3	10
*CD560468	7/16-14 X 5/8	7/16-14 X 1 7/8	3 1/8	10
*CD560522	7/16-14 X 3/4	7/16-14 X 1 1/4	2 1/2	10
*CD560469	7/16-14 X 5/8	7/16-14 X 1 7/8	3 1/4	10

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
36986	1/2-20 x 15/16	1/2-13 x 1 3/16	2	10
36987	1/2-20 x 1 1/16	1/2-13 x 3/4	2 1/4	10
36989	1/2-20 x 1 11/16	1/2-13 x 3/4	2 3/4	10
*CD560470	1/2-13 X 3/4	1/2-20 X 1 1/16	2 1/2	10
36990	1/2-20 x 2	1/2-13 x 3/4	3	10
*CD560495	5/8-11 X 1 3/16	5/8-11 X 1 1/2	2 5/8	10
*CD560496	3/4-10 X 1	3/4-10 X 1 3/4	3	10

*Canada only

Grade 5 Universal Studs



- UNC (USS) and UNF (SAE)
- Meets SAE Grade 5 specifications
- Medium carbon steel
- Through-hardened
- Non-plated

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
32411	5/16-24 x 7/16	5/16-18 x 3/8	1	25
32412	5/16-24 x 5/8	5/16-18 x 1/2	1 1/4	25
32413	5/16-24 x 3/4	5/16-18 x 9/16	1 1/2	25
32414	5/16-24 x 7/8	5/16-18 x 5/8	1 3/4	25
32415	5/16-24 x 1	5/16-18 x 9/16	2	25

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
32423	3/8-24 x 3/4	3/8-16 x 1/2	1 1/2	25
32424	3/8-24 x 1	3/8-16 x 9/16	1 3/4	25
KP3051	3/8-16 x 7/8	3/8-16 x 5/8	1 3/4	25
32425	3/8-24 x 1 1/16	3/8-16 x 5/8	2	25
KP3073	3/8-16 x 1	3/8-16 x 3/4	2	25
32426	3/8-24 x 1 1/4	3/8-16 x 1/2	2 1/4	25
32427	3/8-24 x 1 1/2	3/8-16 x 5/8	2 1/2	15
C15140	3/8-24 x 1	3/8-16 x 7/8	2 3/4	25
32428	3/8-24 x 2	3/8-16 x 5/8	3	15
KP3051-1	3/8-16 x 2	3/8-16 x 1 1/16	3	25
32429	3/8-24 x 2	3/8-16 x 1	3 1/2	15

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
32433	7/16-20 x 3/4	7/16-14 x 5/8	1 1/2	25
32434	7/16-20 x 7/8	7/16-14 x 3/4	1 3/4	25
32435	7/16-20 x 15/16	7/16-14 x 3/4	2	25
32436	7/16-20 x 1 1/16	7/16-14 x 1 3/16	2 1/4	25
32437	7/16-20 x 1	7/16-14 x 7/8	2 1/2	25
32438	7/16-20 x 1 11/16	7/16-14 x 3/4	2 3/4	15
32439	7/16-20 x 1 13/16	7/16-14 x 1 3/16	3	10

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
32444	1/2-20 x 7/8	1/2-13 x 1 3/4	1 3/4	10
32445	1/2-20 x 15/16	1/2-13 x 1 3/16	2	10
32446	1/2-20 x 1 1/16	1/2-13 x 3/4	2 1/4	10
32447	1/2-20 x 1 1/4	1/2-13 x 3/4	2 1/2	10
KP3076-4	1/2-13 X 3/4	1/2-20 X 1 5/8	2 3/4	25
32448	1/2-20 x 1 11/16	1/2-13 x 3/4	2 3/4	10
32449	1/2-20 x 2	1/2-13 x 3/4	3	10

Part No.	UNF Thd. Dia.-TPI x Lgth. (In.)	UNC Thd. Dia.-TPI x Lgth. (In.)	OAL (In.)	Unit
C682166	5/8-18 x 1	5/8-11 x 3/4	2 1/2	10
32455	5/8-18 x 1 1/4	5/8-11 x 7/8	3	5

B7 Studs

B7 Studs



- UNC (USS)
- Meets ASTM A193-B7 specifications
- Medium carbon alloy steel
- Through-hardened
- 125,000 psi minimum tensile strength
- Non-plated
- For use with high temperature and high pressure flange connections
- Length measured from first full thread to first full thread

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
40594	25	40594-B	200	1/2-13	2
40596	25	40596-B	200	1/2-13	2 1/2
40596-1	25	40596-1B	200	1/2-13	2 3/4
40597	25	40597-B	200	1/2-13	3
*	*	¤40597-1B	200	1/2-13	3 1/4
40598	25	40598-B	200	1/2-13	3 1/2
40599	25	*	200	1/2-13	4
*	*	¤40599-1B	100	1/2-13	4 1/2
KP68856	10	¤40599-2B	200	1/2-13	5
*	*	¤40599-3B	100	1/2-13	5 1/2
40599-4	25	40599-4B	100	1/2-13	6
*	*	¤40599-5B	50	1/2-13	6 1/2
*	*	¤40599-6B	100	1/2-13	7
*	*	¤40599-8B	100	1/2-13	8

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
*	*	¤40599-9B	100	5/8-11	2
KP68976	10	¤40599-10B	200	5/8-11	2 1/2
40599-11	25	40599-11B	100	5/8-11	2 3/4
40599-12	25	40599-12B	100	5/8-11	3
40599-13	25	40599-13B	100	5/8-11	3 1/4
40600	25	40600-B	100	5/8-11	3 1/2
40600-1	25	40600-1B	100	5/8-11	3 3/4
40601	25	40601-B	100	5/8-11	4
40602	25	40602-B	100	5/8-11	4 1/2
40603	25	40603-B	100	5/8-11	5
40603-2	25	40603-2B	100	5/8-11	5 1/2
40603-3	25	40603-3B	100	5/8-11	6

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
40603-4	10	40603-4B	50	5/8-11	6 1/2
40603-5	10	40603-5B	100	5/8-11	7
*	*	40603-6B	50	5/8-11	7 1/2
*	*	40603-7B	50	5/8-11	8

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
KP68998	10	¤40604-B	100	3/4-10	3
40605	25	40605-B	100	3/4-10	3 1/2
40605-1	25	40605-1B	100	3/4-10	3 3/4
40606	25	40606-B	100	3/4-10	4
40606-1	25	40606-1B	100	3/4-10	4 1/4
40607	25	40607-B	100	3/4-10	4 1/2
40608	25	40608-B	100	3/4-10	4 3/4
40609	15	40609-B	100	3/4-10	5
40611	15	40611-B	100	3/4-10	5 1/2
40612	15	40612-B	100	3/4-10	6
40613	10	*	100	3/4-10	6 1/2
KP69044	2	40613-2B	50	3/4-10	7
KP69045	2	40613-4B	50	3/4-10	8
*	*	40613-5B	50	3/4-10	8 1/2
*	*	40613-6B	50	3/4-10	9

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
40615	10	40615-B	50	7/8-9	4
40615-1	10	40615-1B	50	7/8-9	4 1/2
40616	10	40616-B	50	7/8-9	5
*	*	40616-3B	50	7/8-9	5 1/4
40616-1	10	40616-1B	50	7/8-9	5 1/2
*	*	40616-4B	50	7/8-9	5 3/4
40616-2	10	40616-2B	50	7/8-9	6
*	*	40617-B	50	7/8-9	6 1/4
KP69059	5	40618-B	50	7/8-9	6 1/2
KP69062	2	40619-B	50	7/8-9	7
*	*	¤40620-B	50	7/8-9	7 1/2
KP69063	2	40621-B	50	7/8-9	8
*	*	¤40621-1B	50	7/8-9	8 1/2

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
*	*	40622-B	50	1-8	4
*	*	¤40622-2B	50	1-8	5
*	*	40622-3B	50	1-8	5 1/2
40622-4	10	40622-4B	50	1-8	6
40622-5	5	40622-5B	25	1-8	6 1/2
*	*	40622-6B	25	1-8	7
*	*	40622-7B	25	1-8	7 1/2
*	*	40622-8B	25	1-8	8
*	*	¤40622-9B	25	1-8	8 1/2

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
*	*	40623-3B	25	1 1/8-8	6 1/2
*	*	40623-4B	25	1 1/8-8	7
*	*	¤40623-5B	25	1 1/8-8	7 1/2
*	*	40623-6B	25	1 1/8-8	8

Standard Part No.	Unit	Bulk Part No.	Unit	Dia.-TPI	Length (In.)
*	*	¤40623-9B	25	1 1/4-8	6
*	*	40626-B	25	1 1/4-8	8
*	*	40627-B	20	1 1/4-8	8 1/2
*	*	40628-B	20	1 1/4-8	9
*	*	¤40630-B	25	1 1/4-8	10

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Tufbolt Theft Resistant System

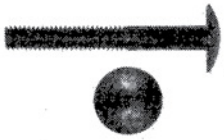
Tufbolt Theft-Resistant System



- For U-Channel and square tube posts
- Includes: Tufbolts, Tufnuts®, Tufbolt washers

Part No.	Dia. (In.)	Length (In.)	Unit
¤48012	5/16	2½	100
¤48013	5/16	3	100

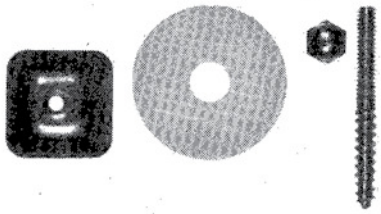
Tufbolt Security Bolts



- Round head "neckless" carriage bolts
- Serrated under the head to provide additional resistance to turning

Part No.	Dia. (In.)	Length (In.)	Unit
¤48009	5/16	2½	100
¤48010	5/16	3	100

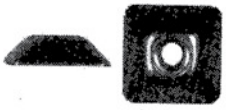
Tufscrew Theft-Resistant System



- For lag-type wood post and structure security fastening
- Includes: Tufscrews, Tufnuts®, security washers, Acorn installation nuts

Part No.	Dia. (In.)	Length (In.)	Unit
¤48014	3/16	2	100
¤48015	1/4	3	100
¤48016	5/16	3	100
¤48017	3/8	3½	100

Tufnut® Theft-Resistant Nuts



- Cold-rolled steel
- Heat treated
- Zinc yellow chromate plating
- Instructions included

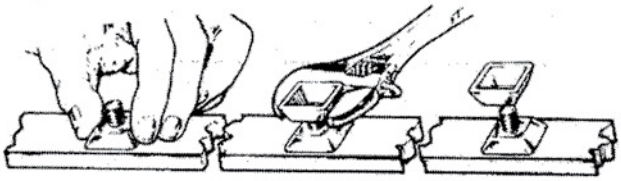
Part No.	Dia.-TPI	Unit
¤48000	3/16-18	100
¤48001	1/4-20	100
¤48002	5/16-18	100
¤48003	3/8-16	100
¤48004	1/2-13	100

TUFNUTS® SECURITY NUTS

- The angular sides of the Tufnut make it impossible to grasp, while its hard surface (harder than most hand tools) increases the noise made and time used in an effort to remove the nut
- Use nuts to secure highway signs and guard rails, anchor playground equipment and park benches, safeguard solar panels and equipment, protect exterior lights, alarm systems, loud speakers, etc. Secures remote installations from vandalism and theft
- Makes any carriage bolt, machine screw or tamperproof screw virtually tamper resistant
- Used by federal, state, city and county agencies and private business
- Tufnut is easy to use and requires no special tools (see below)

Install Tufnut #1 finger tight

Remove Tufnut #2, leaving property secured



Install Tufnut #2 and tighten or loosen by inserting wrench or vise grip between Tufnuts

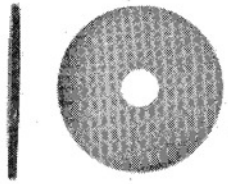
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Bolts/Socket Screws

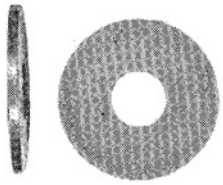
Tufnut® Nylon Security Washers



- White 101 nylon construction
- For use with Tufnut® Nuts to protect against surface abrasion

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
¤48005	¼	.328	1.50	.062	100
¤48006	5/16	.328	1.50	.062	100
¤48007	⅜	.390	1.50	.062	100
¤48008	½	.505	1.625	.062	100

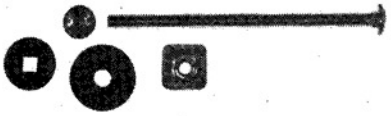
Tufbolt Washers



- White 101 nylon construction
- For use with Tufbolt Security Bolts to protect against surface abrasions

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
¤48011	5/16	.328	1	.062	100

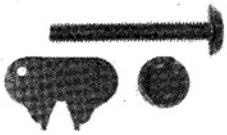
System 60



- For large wood signs (Government applications)
- Includes: Carriage bolts, carriage bolt adapters, Tufnuts® and Tufnut® washers

Part No.	Dia. (In.)	Length (In.)	Unit
¤48018	5/16	6	100

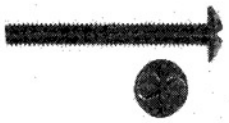
Spikebolt



- Notched head to allow holding with spike tool during fastening
- Spike tool included

Part No.	Dia. (In.)	Length (In.)	Unit
¤48023	5/16	2½	100

One-Way Bolt

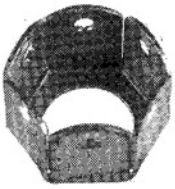


- Allows bolt to be held with screwdriver during fastening only
- Unique head design will not permit turning to unfasten

Part No.	Dia. (In.)	Length (In.)	Material	Unit
¤48021	5/16	2½	Steel	100
¤48022	5/16	2½	Aluminum	100

Safety Lock Wiring Device

Safety Lock Wiring Device



- Simply snap on to bolts or nuts providing easy to reach holes for safety wiring
- Kar Safety Lock eliminates:
  - Expensive bolt head drilling
  - Inventories of special predrilled fasteners
  - Vibration and shock loosening of fasteners
- Manufactured of spring steel, heat treated to Rockwell 40-42 C Scale—higher Rockwell hardness than SAE Grade 8
- Kar Safety Lock is approved for use by the U.S. Bureau of Mines
- Duraplate finish protects against rust and corrosion

Part No.	Bolt/Nut Size	Wrench Opening	Unit
KP70378	¼	½	25
KP70379	5/16	9/16	25
KP70380	⅜	⅝	25
KP70382	½	13/16	15
KP70383	⅝	1	10

Bowmalloy

Bowmalloy® Socket Head Cap Screws



UNRC (Coarse) or UNRF (Fine)

- 1960 series head type
- Heat treated alloy steel
- Thermo-Forged®
- Unified 3A thread fit
- Meets ASME/ANSI B18.3
- Meets ASTM A574
  - 180,000 psi min. for sizes 0 to ½" diameter
  - 170,000 psi min. for over ½" diameter

UNRC Part Number	UNRF Part Number TPI - 80	Dia. (In.)	Length (In.)	Unit
-	¤73002	No. 0	⅛	100
-	¤73004	No. 0	3/16	100
-	¤73006	No. 0	¼	100
-	¤73008	No. 0	⅜	100

UNRC Part Number TPI - 64	UNRF Part Number TPI - 72	Dia. (In.)	Length (In.)	Unit
-	¤73014	No. 1	¼	100
-	¤73016	No. 1	⅜	100

UNRC Part Number TPI - 56	UNRF Part Number TPI - 64	Dia. (In.)	Length (In.)	Unit
¤72002	-	No. 2	3/16	100
72004	-	No. 2	¼	100
72006	-	No. 2	⅜	100
72008	-	No. 2	½	100

UNRC Part Number TPI - 48	UNRF Part Number TPI - 56	Dia. (In.)	Length (In.)	Unit
¤72010	-	No. 3	3/16	100
¤72012	-	No. 3	¼	100
72014	-	No. 3	⅜	100
72016	-	No. 3	½	100

UNRC Part Number TPI - 40	UNRF Part Number TPI - 48	Dia. (In.)	Length (In.)	Unit
86150	-	No. 4	3/16	100
72018	-	No. 4	¼	100
MP72018	-	No. 4	¼	50
86154	-	No. 4	5/16	100
72020	-	No. 4	⅜	100
MP72020	-	No. 4	⅜	50
72022	-	No. 4	½	100
MP72022	-	No. 4	½	50
72024	-	No. 4	⅝	100
72026	-	No. 4	¾	100
MP72026	-	No. 4	¾	50
86172	-	No. 4	⅞	100
86176	-	No. 4	1	100

UNRC Part Number TPI - 40	UNRF Part Number TPI - 44	Dia. (In.)	Length (In.)	Unit
72028	-	No. 5	¼	100
MP72028	-	No. 5	¼	50
72030	-	No. 5	⅜	100
72032	-	No. 5	½	100
MP72032	-	No. 5	½	50
72034	-	No. 5	⅝	100
72036	-	No. 5	¾	100

UNRC Part Number TPI - 32	UNRF Part Number TPI - 40	Dia. (In.)	Length (In.)	Unit
72038	¤73018	No. 6	¼	100
MP72038	-	No. 6	¼	50
72040	¤73020	No. 6	⅜	100
MP72040	-	No. 6	⅜	50
72042	¤73022	No. 6	½	100
MP72042	-	No. 6	½	50
72044	¤73024	No. 6	⅝	100
72046	¤73026	No. 6	¾	100
MP72046	-	No. 6	¾	50

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UNRC Part Number TPI - 32	UNRF Part Number TPI - 40	Dia. (In.)	Length (In.)	Unit
72048	–	No. 6	⅞	100
72050	–	No. 6	1	100
MP72050	–	No. 6	1	50
86288	–	No. 6	1¼	100
86292	–	No. 6	1½	100
86296	–	No. 6	1¾	50
86300	–	No. 6	2	100

UNRC Part Number TPI - 32	UNRF Part Number TPI - 36	Dia. (In.)	Length (In.)	Unit
72052	–	No. 8	¼	100
MP72052	–	No. 8	¼	50
72054	73028	No. 8	⅜	100
MP72054	-	No. 8	⅜	50
72056	73030	No. 8	½	100
MP72056	-	No. 8	½	50
72058	–	No. 8	⅝	100
MP72058	–	No. 8	⅝	50
72060	73032	No. 8	¾	100
MP72060	-	No. 8	¾	50
72062	–	No. 8	⅞	100
72064	–	No. 8	1	100
MP72064	–	No. 8	1	50
72066	–	No. 8	1¼	100
MP72066	–	No. 8	1¼	50
72068	–	No. 8	1½	100
MP72068	–	No. 8	1½	50
86362	–	No. 8	1¾	100
86364	–	No. 8	2	100
86368	–	No. 8	2½	100

UNRC Part Number TPI - 24	UNRF Part Number TPI - 32	Dia. (In.)	Length (In.)	Unit
86424	77388	No. 10	¼	100
72070	73034	No. 10	⅜	100
MP72070	MP73034	No. 10	⅜	50
72072	73036	No. 10	½	100
MP72072	MP73036	No. 10	½	50
72074	73038	No. 10	⅝	100
MP72074	MP73038	No. 10	⅝	50
72076	73040	No. 10	¾	100
MP72076	MP73040	No. 10	¾	50
72078	73042	No. 10	⅞	100
72080	73044	No. 10	1	100
MP72080	MP73044	No. 10	1	50
72082	73046	No. 10	1¼	100
MP72082	MP73046	No. 10	1¼	25
72084	73048	No. 10	1½	100
MP72084	MP73048	No. 10	1½	25
72086	73050	No. 10	1¾	100
MP72086	MP73050	No. 10	1¾	25
72088	73052	No. 10	2	100
MP72088	MP73052	No. 10	2	25
86440	77440	No. 10	2¼	100
86442	77442	No. 10	2½	100
-	77446	No. 10	3	100

UNRC Part Number TPI - 20	UNRF Part Number TPI - 28	Dia. (In.)	Length (In.)	Unit
86526	77450	¼"	¼	100
72090	73054	¼"	⅜	100
MP72090	-	¼"	⅜	50
72092	73056	¼"	½	100
MP72092	-	¼"	½	50

UNRC Part Number TPI - 20	UNRF Part Number TPI - 28	Dia. (In.)	Length (In.)	Unit
72094	73058	¼"	⅝	100
MP72094	-	¼"	⅝	50
72096	73060	¼"	¾	100
MP72096	-	¼"	¾	50
72098	73062	¼"	⅞	100
MP72098	-	¼"	⅞	50
72100	73064	¼"	1	100
MP72100	-	¼"	1	50
72102	73066	¼"	1¼	100
MP72102	-	¼"	1¼	50
72104	73068	¼"	1½	100
MP72104	-	¼"	1½	50
72106	73070	¼"	1¾	100
MP72106	-	¼"	1¾	50
72108	73072	¼"	2	100
MP72108	-	¼"	2	25
72110	73074	¼"	2¼	100
MP72110	-	¼"	2¼	25
72112	77474	¼"	2½	100
MP72112	-	¼"	2½	25
72114	–	¼"	2¾	100
72116	77478	¼"	3	100
MP72116	-	¼"	3	25
86576	–	¼"	3¼	100
72117	–	¼"	3½	100
86580	–	¼"	3¾	100
72115	77482	¼"	4	100

UNRC Part Number TPI - 18	UNRF Part Number TPI - 24	Dia. (In.)	Length (In.)	Unit
72118	–	5⁄16"	⅜	100
72120	73076	5⁄16"	½	100
MP72120	-	5⁄16"	½	50
72122	73078	5⁄16"	⅝	100
MP72122	-	5⁄16"	⅝	50
72124	73080	5⁄16"	¾	100
MP72124	-	5⁄16"	¾	50
72126	73082	5⁄16"	⅞	100
MP72126	-	5⁄16"	⅞	50
72128	73084	5⁄16"	1	100
MP72128	-	5⁄16"	1	50
72130	73086	5⁄16"	1¼	100
MP72130	-	5⁄16"	1¼	50
72132	73088	5⁄16"	1½	100
MP72132	-	5⁄16"	1½	50
72134	73090	5⁄16"	1¾	100
MP72134	-	5⁄16"	1¾	50
72136	73092	5⁄16"	2	100
MP72136	-	5⁄16"	2	25
72138	73094	5⁄16"	2¼	100
MP72138	-	5⁄16"	2¼	25
72140	73096	5⁄16"	2½	100
MP72140	-	5⁄16"	2½	25
72142	–	5⁄16"	2¾	100
72144	–	5⁄16"	3	100
MP72144	–	5⁄16"	3	10
72146	–	5⁄16"	3¼	50
72148	–	5⁄16"	3½	50
86646	–	5⁄16"	4	50

UNRC Part Number TPI - 16	UNRF Part Number TPI - 24	Dia. (In.)	Length (In.)	Unit
72150	73098	⅜"	½	100
MP72150	-	⅜"	½	25
72152	73100	⅜"	⅝	100
72154	73102	⅜"	¾	100
MP72154	-	⅜"	¾	25

UNRC Part Number TPI - 16	UNRF Part Number TPI - 24	Dia. (In.)	Length (In.)	Unit
72156	⌑73104	⅜"	⅞	100
MP72156	-	⅜"	⅞	25
72158	73106	⅜"	1	100
MP72158	-	⅜"	1	25
72160	73108	⅜"	1¼	100
MP72160	-	⅜"	1¼	25
72162	73110	⅜"	1½	100
MP72162	-	⅜"	1½	25
72164	73112	⅜"	1¾	50
MP72164	-	⅜"	1¾	10
72166	73114	⅜"	2	50
MP72166	-	⅜"	2	10
72168	73116	⅜"	2¼	50
MP72168	-	⅜"	2¼	10
72170	73118	⅜"	2½	50
MP72170	-	⅜"	2½	10
72172	73119	⅜"	2¾	50
72174	73120	⅜"	3	50
MP72174	-	⅜"	3	10
72176	-	⅜"	3¼	50
72178	77500	⅜"	3½	50
MP72178	-	⅜"	3½	5
72180	77504	⅜"	4	50
MP72180	-	⅜"	4	5
72182	–	⅜"	4½	50
72184	77510	⅜"	5	50
86688	–	⅜"	5½	50
72185	–	⅜"	6	50

UNRC Part Number TPI - 14	UNRF Part Number TPI - 20	Dia. (In.)	Length (In.)	Unit
72188	–	7⁄16"	⅝	100
72190	–	7⁄16"	¾	100
72192	–	7⁄16"	⅞	100
72194	73122	7⁄16"	1	100
72196	73124	7⁄16"	1¼	50
72198	73126	7⁄16"	1½	50
72200	–	7⁄16"	1¾	50
72202	73128	7⁄16"	2	50
72204	–	7⁄16"	2¼	50
72206	–	7⁄16"	2½	50
72208	–	7⁄16"	2¾	25
72210	–	7⁄16"	3	25
72214	–	7⁄16"	3½	25
72216	–	7⁄16"	4	25
72271	–	7⁄16"	4½	25
86724	–	7⁄16"	5	25

UNRC Part Number TPI - 13	UNRF Part Number TPI - 20	Dia. (In.)	Length (In.)	Unit
72218	-	½"	½	50
72220	-	½"	⅝	50
72222	-	½"	¾	50
MP72222	-	½"	¾	10
72224	-	½"	⅞	50
72226	73130	½"	1	50
MP72226	-	½"	1	10
72228	73132	½"	1¼	50
MP72228	-	½"	1¼	10
72230	⌑73134	½"	1½	50
MP72230	-	½"	1½	10
72232	73136	½"	1¾	50
MP72232	-	½"	1¾	10
72234	73138	½"	2	50
MP72234	-	½"	2	10
72236	73140	½"	2¼	25

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UNRC Part Number TPI - 13	UNRF Part Number TPI - 20	Dia. (In.)	Length (In.)	Unit
72238	73142	½"	2½	25
MP72238	-	½"	2½	5
72240	¤73143	½"	2¾	25
72242	73144	½"	3	25
MP72242	-	½"	3	5
72244	–	½"	3¼	25
72246	73145	½"	3½	25
72247	–	½"	3¾	25
72248	77540	½"	4	25
MP72248	-	½"	4	5
72250	77544	½"	4½	25
72252	77548	½"	5	25
72254	¤77552	½"	5½	25
72256	77556	½"	6	25
72258	–	½"	6½	10
72260	–	½"	7	10
72262	–	½"	8	10

UNRC Part Number TPI - 11	UNRF Part Number TPI - 18	Dia. (In.)	Length (In.)	Unit
72264	73146	⅝"	1	25
MP72264	-	⅝"	1	5
72266	¤73148	⅝"	1¼	25
72268	73150	⅝"	1½	25
MP72268	-	⅝"	1½	5
72270	73152	⅝"	1¾	25
72272	73154	⅝"	2	25
MP72272	-	⅝"	2	5
72274	73155	⅝"	2¼	25
72276	73156	⅝"	2½	25
MP72276	-	⅝"	2½	5
72278	73158	⅝"	2¾	25
72280	73160	⅝"	3	25
MP72280	-	⅝"	3	5
72282	–	⅝"	3¼	25
72284	73164	⅝"	3½	25
MP72284	-	⅝"	3½	5
72286	¤73168	⅝"	4	25
MP72286	-	⅝"	4	5
72288	73172	⅝"	4½	20
72290	¤73176	⅝"	5	20
72292	–	⅝"	5½	10
72294	–	⅝"	6	10
72296	–	⅝"	6½	10
72298	–	⅝"	7	10
72300	–	⅝"	8	10

UNRC Part Number TPI - 10	UNRF Part Number TPI - 16	Dia. (In.)	Length (In.)	Unit
72302	–	¾"	1¼	25
72304	–	¾"	1½	25
72306	–	¾"	1¾	25
72308	–	¾"	2	25
MP72308	–	¾"	2	5
72310	–	¾"	2¼	25
72312	–	¾"	2½	25
MP72312	–	¾"	2½	5
72314	–	¾"	2¾	25
72316	–	¾"	3	25
MP72316	–	¾"	3	5
72318	–	¾"	3¼	25
72320	–	¾"	3½	25
MP72320	–	¾"	3½	5
72321	–	¾"	3¾	25
72322	–	¾"	4	25
MP72322	–	¾"	4	5

UNRC Part Number TPI - 10	UNRF Part Number TPI - 16	Dia. (In.)	Length (In.)	Unit
72324	-	¾"	4½	20
72326	–	¾"	5	20
72328	–	¾"	5½	10
72330	–	¾"	6	10
72332	–	¾"	6½	10
72334	–	¾"	7	10
72336	–	¾"	8	10

UNRC Part Number TPI - 9	UNRF Part Number TPI - 14	Dia. (In.)	Length (In.)	Unit
72338	-	⅞"	2	10
72340	-	⅞"	2¼	10
72342	-	⅞"	2½	10
72344	-	⅞"	2¾	10
72346	-	⅞"	3	10
72348	-	⅞"	3¼	10
72350	-	⅞"	3½	10
72352	-	⅞"	4	10
72354	-	⅞"	4½	10
72356	-	⅞"	5	10
72358	-	⅞"	5½	10
72360	-	⅞"	6	10
72364	-	⅞"	7	10
72366	-	⅞"	8	10

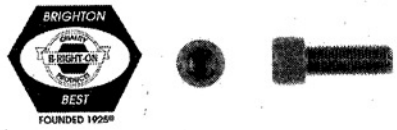
UNRC Part Number TPI - 8	UNRF Part Number TPI - 12	Dia. (In.)	Length (In.)	Unit
72368	–	1"	2	10
72370	–	1"	2¼	10
72372	–	1"	2½	10
72374	–	1"	2¾	10
72376	–	1"	3	10
72378	–	1"	3¼	10
72380	–	1"	3½	10
72382	–	1"	4	10
72384	–	1"	4½	10
72386	–	1"	5	10
72388	–	1"	5½	10
72390	–	1"	6	10
72392	–	1"	6½	10
72394	–	1"	7	10
72396	–	1"	8	10

UNRC Part Number UNIFIED 2A THREAD FIT TPI - 7	UNRF Part Number TPI - 12	Dia. (In.)	Length (In.)	Unit
72400	–	1¼"	3	1
72402	–	1¼"	3½	1
72404	–	1¼"	4	1
72406	–	1¼"	4½	1
72408	–	1¼"	5	1
72410	–	1¼"	5½	1
72412	–	1¼"	6	1
72414	–	1¼"	6½	1
72416	–	1¼"	7	1
72418	–	1¼"	8	1
72420	–	1¼"	9	1
¤72422	–	1¼"	10	1
¤72424	–	1¼"	11	1

UNRC Part Number UNIFIED 2A THREAD FIT TPI - 6	UNRF Part Number TPI - 12	Dia. (In.)	Length (In.)	Unit
72428	–	1½"	3½	1
72430	–	1½"	4	1
72432	–	1½"	4½	1
72434	–	1½"	5	1
¤72436	–	1½"	5½	1
72438	–	1½"	6	1
72440	–	1½"	6½	1
72442	–	1½"	7	1
72444	–	1½"	8	1

Socket Head Cap Screws

Socket Head Cap Screws
1960 Series Head Type



- UNC (USS) or UNF (SAE)
- Meets ASTM A574 specifications
- Medium carbon alloy steel
- Through-hardened
- 180,000 psi minimum tensile strength for ½" diameter and smaller 170,000 psi minimum tensile strength for ⅝" diameter and larger
- Non-plated

UNC Part No. TPI-*	UNF Part No. TPI-80	Dia. (In.)	Length (In.)	Unit
*	¤40180	No. 0	⅛	100
*	¤40182	No. 0	3⁄16	100
*	¤40183	No. 0	¼	100
*	¤48410†	No. 0	5⁄16	100
*	¤40184	No. 0	⅜	100
*	¤48411†	No. 0	½	100

UNC Part No. TPI-64	UNF Part No. TPI-72	Dia. (In.)	Length (In.)	Unit
*	¤40186	No. 1	⅛	100
¤48415†	¤48420†	No. 1	3⁄16	100
¤48416†	¤48421†	No. 1	¼	100
¤48417†	¤48422†	No. 1	⅜	100
¤48418†	¤48423†	No. 1	½	100
*	¤48424†	No. 1	⅝	100

UNC Part No. TPI-56	UNF Part No. TPI-64	Dia. (In.)	Length (In.)	Unit
¤48425†	*	No. 2	⅛	100
¤33570-3/16	¤48435†	No. 2	3⁄16	100
33570-1/4	¤48436†	No. 2	¼	100
¤48426†	*	No. 2	5⁄16	100
33570-3/8	¤48437†	No. 2	⅜	100
¤48427†	*	No. 2	7⁄16	100
33570-1/2	¤48438†	No. 2	½	100
¤48428†	¤48439†	No. 2	⅝	100
¤48429†	*	No. 2	¾	100
¤48430†	*	No. 2	⅞	100
¤48431†	*	No. 2	1	100

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UNC Part No. TPI-48	UNF Part No. TPI-56	Dia. (In.)	Length (In.)	Unit
¤48440†	¤48450†	No. 3	1/8	100
¤33571	¤48451†	No. 3	3/16	100
¤33571-1	¤48452†	No. 3	1/4	100
¤48441†	*	No. 3	5/16	100
¤33571-2	¤48453†	No. 3	3/8	100
¤33571-3	¤48454†	No. 3	1/2	100
¤48442†	¤48455†	No. 3	5/8	100
¤48443†	¤48456†	No. 3	3/4	100
¤48444†	*	No. 3	7/8	100
¤48445†	¤48457†	No. 3	1	100

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia. (In.)	Length (In.)	Unit
33572	*	No. 4	1/8	100
33572-1	¤40190	No. 4	3/16	100
33572-1/4	¤40191	No. 4	1/4	100
33572-2	¤40192	No. 4	5/16	100
33572-3/8	¤40193	No. 4	3/8	100
48460†	*	No. 4	7/16	100
33572-1/2	¤40194	No. 4	1/2	100
33572-5/8	¤40195	No. 4	5/8	100
33572-3/4	¤40196	No. 4	3/4	100
33572-3	*	No. 4	7/8	100
33572-4	*	No. 4	1	100
33572-5	*	No. 4	1 1/4	100
48461†	*	No. 4	1 1/2	100
48462†	*	No. 4	1 3/4	100
48463†	*	No. 4	2	100

UNC Part No. TPI-40	UNF Part No. TPI-44	Dia. (In.)	Length (In.)	Unit
48470†	*	No. 5	1/8	100
48471†	*	No. 5	3/16	100
33573-1/4	¤48480†	No. 5	1/4	100
48472†	*	No. 5	5/16	100
33573-3/8	¤48481†	No. 5	3/8	100
48473†	*	No. 5	7/16	100
33573-1/2	¤48482†	No. 5	1/2	100
33573-5/8	¤48483†	No. 5	5/8	100
33573-3/4	¤48484†	No. 5	3/4	100
48473-1†	*	No. 5	1	100
*	*	No. 5	1 1/4	100
48476†	*	No. 5	1 1/2	100
48477†	*	No. 5	2	100

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia. (In.)	Length (In.)	Unit
48485†	*	No. 6	1/8	100
33574-1	48490†	No. 6	3/16	100
33575	¤40200	No. 6	1/4	100
33575-1	48491†	No. 6	5/16	100
33576	¤40201	No. 6	3/8	100
33576-1	48492†	No. 6	7/16	100
33577	¤40202	No. 6	1/2	100
33578	¤40203	No. 6	5/8	100
33579	¤40203-1	No. 6	3/4	100
33579-1	¤40204	No. 6	7/8	100
33580	48494†	No. 6	1	100
33580-1	*	No. 6	1 1/4	50
33580-2	*	No. 6	1 1/2	50
48486†	*	No. 6	1 3/4	100

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia. (In.)	Length (In.)	Unit
48487†	*	No. 6	2	100

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia. (In.)	Length (In.)	Unit
48495†	*	No. 8	1/8	100
48496†	*	No. 8	3/16	100
33582	—	No. 8	1/4	50
—	48505†	No. 8	1/4	100
48497†	*	No. 8	5/16	100
33583	—	No. 8	3/8	50
—	¤40206	No. 8	3/8	100
48498†	*	No. 8	7/16	100
33584	—	No. 8	1/2	50
—	¤40207	No. 8	1/2	100
33585	—	No. 8	5/8	50
—	48506†	No. 8	5/8	100
33586	—	No. 8	3/4	50
—	¤40208	No. 8	3/4	100
33586-1	48507†	No. 8	7/8	100
33587	—	No. 8	1	50
—	48508†	No. 8	1	100
33588	—	No. 8	1 1/4	50
—	48509†	No. 8	1 1/4	100
33588-1	—	No. 8	1 1/2	50
—	48510†	No. 8	1 1/2	100
33588-2	*	No. 8	1 3/4	50
33588-3	*	No. 8	2	50
48499†	*	No. 8	2 1/4	100
33588-5	*	No. 8	2 1/2	25
48500†	—	No. 8	2 3/4	100
48501†	—	No. 8	3	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia. (In.)	Length (In.)	Unit
33589	40209	No. 10	3/16	100
33589-2	40209-1	No. 10	1/4	100
48515†	40209-2	No. 10	5/16	100
33589-1	40210	No. 10	3/8	50
48516†	40210-1†	No. 10	7/16	100
33590	40211	No. 10	1/2	50
33591	40212	No. 10	5/8	50
33592	40213	No. 10	3/4	50
33592-1	40213-1	No. 10	7/8	50
33593	40214	No. 10	1	50
48517†	48525†	No. 10	1 1/8	100
33593-1	40215	No. 10	1 1/4	50
33594	40216	No. 10	1 1/2	50
33595	40216-13/4	No. 10	1 3/4	50
33596	40216-2	No. 10	2	50
33597	40216-3	No. 10	2 1/4	25
33597-1	40216-4	No. 10	2 1/2	25
33597-2	40216-5	No. 10	2 3/4	25
33597-3	40216-6	No. 10	3	25
48518	48526†	No. 10	3 1/4	25
48519	48527†	No. 10	3 1/2	25
48520†	48528†	No. 10	4	25

UNC Part No. TPI-24	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
48530†	48540†	No. 12	3/8	100
48531†	48541†	No. 12	1/2	100
48532†	¤48542†	No. 12	5/8	100
48533†	48543†	No. 12	3/4	100
48534†	48544†	No. 12	1	100
48535†	48545†	No. 12	1 1/4	100

UNC Part No. TPI-24	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
48536†	48546†	No. 12	1 1/2	100
48537†	*	No. 12	1 3/4	100
48538†	*	No. 12	2	100

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
33598	40216-7	1/4	1/4	100
KP25097	*	1/4	5/16	25
33599-9	40216-9	1/4	3/8	50
KP25098	*	1/4	7/16	25
33600	40217	1/4	1/2	50
33601	40217-1	1/4	5/8	50
33602	40218	1/4	3/4	50
33603	40218-1	1/4	7/8	50
33604	40219	1/4	1	50
KP25099	*	1/4	1 1/8	25
33605	40220	1/4	1 1/4	50
KP25100	*	1/4	1 3/8	25
33606	40221	1/4	1 1/2	50
33607	40222	1/4	1 3/4	50
MP33607	-	1/4	1 3/4	25
33608	40223	1/4	2	50
33609	40224	1/4	2 1/4	50
33610	—	1/4	2 1/2	50
—	40225	1/4	2 1/2	25
33611	*	1/4	2 3/4	50
33612	—	1/4	3	50
—	40226	1/4	3	25
33612-1	*	1/4	3 1/4	50
33613	*	1/4	3 1/2	50
33614	*	1/4	4	50
33614-2	*	1/4	4 1/2	25
33614-3	*	1/4	5	10
33614-4	*	1/4	5 1/2	10
33614-5	*	1/4	6	10

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
33614-1	*	5/16	3/8	50
33615-1	40227-1	5/16	1/2	50
33616-1	—	5/16	5/8	50
—	40228	5/16	5/8	100
33617-1	40228-1	5/16	3/4	50
33618-1	—	5/16	7/8	50
—	40229	5/16	7/8	100
33619-1	40229-1	5/16	1	50
33620-1	40230-1	5/16	1 1/4	50
MP33620-1	-	5/16	1 1/4	25
33621-1	40231-1	5/16	1 1/2	50
33622-1	40232-1	5/16	1 3/4	50
33623-1	40233-1	5/16	2	50
33624-1	40234-1	5/16	2 1/4	25
33625-1	40235-1	5/16	2 1/2	25
33626-1	*	5/16	2 3/4	25
33627-1	40235-2	5/16	3	25
33627-2	*	5/16	3 1/4	25
33628-1	—	5/16	3 1/2	25
—	40235-4	5/16	3 1/2	10
33628-2	*	5/16	3 3/4	25
33629-1	—	5/16	4	25
—	40235-5	5/16	4	10
33629-2	*	5/16	4 1/2	10
33629-3	*	5/16	5	10
33629-4	*	5/16	5 1/2	10
33629-5	*	5/16	6	10

Continued on next page

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UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
33630	40236	⅜	½	50
33631	—	⅜	⅝	50
—	40236-1	⅜	⅝	100
33632	40237	⅜	¾	50
33633	*	⅜	⅞	50
33634	40238	⅜	1	50
33635	40239	⅜	1¼	50
33636	40240	⅜	1½	50
MP33636	-	⅜	1½	25
33637	40241	⅜	1¾	50
33638	40242	⅜	2	50
MP33638	-	⅜	2	10
33639	40243	⅜	2¼	50
33640	40244	⅜	2½	50
MP33640	-	⅜	2½	10
33641	*	⅜	2¾	50

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
MP33666	-	½	2	10
33667	40261	½	2¼	25
33668	40262	½	2½	25
MP33668	-	½	2½	10
33669	*	½	2¾	25
33670	40264	½	3	10
33671	*	½	3¼	10
33672	*	½	3½	10
33674	*	½	4	10
33675	*	½	4½	10
33676	*	½	5	10
33677	*	½	5½	10
33678	*	½	6	10
33678-1	*	½	6½	10
33679-1	*	½	7	10
33679-2	*	½	8	10
48547	*	½	9	5

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
—	48549-6†	¾	2½	5
33696-1	—	¾	2¾	10
—	48549-7†	¾	2¾	5
33697-1	—	¾	3	10
MP33697-1	—	¾	3	5
—	48549-8†	¾	3	5
33697-2	*	¾	3¼	10
33698-1	*	¾	3½	10
MP33698-1	*	¾	3½	5
33699-4	—	¾	4	10
MP33699-4	—	¾	4	5
—	48549-9†	¾	4	5
33699-41/2	—	¾	4½	10
—	48549-10†	¾	4½	5
33699-5	*	¾	5	10
33699-51/2	*	¾	5½	5
33701-1	*	¾	6	5

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
33659	*	½	½	25
33660	*	½	¾	25
33661	*	½	⅞	25
33662	40256	½	1	25
MP33662	-	½	1	10
33663	40257	½	1¼	25
33664	40258	½	1½	25
MP33664	-	½	1½	10
33665	40259	½	1¾	25
33666	40260	½	2	25

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
33690-1	*	¾	1¼	10
33691-1	48549-3†	¾	1½	10
MP33691-1	-†	¾	1½	5
33692-1	48549-4†	¾	1¾	10
33693-1	—	¾	2	10
MP33693-1	—	¾	2	5
—	48549-5†	¾	2	5
33694-1	*	¾	2¼	10
33695-1	—	¾	2½	10
MP33695-1	—	¾	2½	5

UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
¤581863	*	1⅛	2½	2
581869	*	1⅛	4	2

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UNC Part No. TPI-7	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
33721	*	1¼	3	2
33721-1	*	1¼	3½	2
33721-2	*	1¼	4	2
33721-3	*	1¼	4½	2
33721-4	*	1¼	5	2
33721-5	*	1¼	5½	2
33721-6	*	1¼	6	2
33721-7	*	1¼	7	2
33721-8	*	1¼	8	2
¤33722	*	1¼	10	2

UNC Part No. TPI-6	UNF Part No. TPI-12	Dia. (In.)	Length (In.)	Unit
33722-1	*	1½	3½	1
33722-2	*	1½	4	1
¤33722-3	*	1½	4½	1
33722-4	*	1½	5	1
33722-5	*	1½	6	1
33722-7	*	1½	8	1
33722-8	*	1½	9	1

† Bowman semi-standard socket products are offered in lengths that are not normally stocked by the industry. Pricing will vary.
*Canada only

Socket Low Head Cap Screws



- UNC (USS) or UNF (SAE)
- Medium carbon alloy steel
- Through-hardened
- Non-plated

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
33400	*	No. 8	⅜	100
33401	*	No. 8	½	100
33402	*	No. 8	⅝	100
33403	*	No. 8	¾	100
33404	*	No. 8	1	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
33405	33410	No. 10	⅜	100
33406	33411	No. 10	½	100
33407	33412	No. 10	⅝	100
33408	33413	No. 10	¾	100
33409	33414	No. 10	1	100

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
33415	*	¼	⅜	100
33416	*	¼	½	100
33417	*	¼	⅝	100
33418	*	¼	¾	100
33419	*	¼	1	100
KP10161	*	¼	1¼	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
33420	*	5⁄16	½	100
33421	*	5⁄16	¾	100
33422	*	5⁄16	1	100
33423	*	5⁄16	1¼	100
33424	*	5⁄16	1½	100

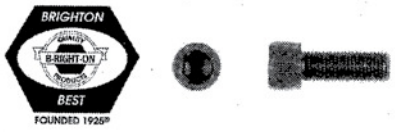
UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
33425	*	⅜	½	50
33426	*	⅜	¾	50
33427	*	⅜	1	50
33428	*	⅜	1¼	50
33429	*	⅜	1½	50

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
33430	*	½	1	25
33431	*	½	1¼	25
33432	*	½	1½	25

* Item not available

Socket Head Cap Screws with Nylon Locking Pellet

1960 Series Head Type



- UNC (USS) or UNF (SAE)
- Meets ASTM A574 specifications
- With pellet, meets MIL-F-18240 specifications
- Medium carbon alloy steel
- Through-hardened
- Nylon 11 pellet
- Non-plated

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
*	40210-P	No. 10	⅜	25
*	40211-P	No. 10	½	25
*	40212-P	No. 10	⅝	25
*	40214-P	No. 10	1	25
*	40215-P	No. 10	1¼	25

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
33600-P	*	¼	½	25
33601-P	*	¼	⅝	25
33602-P	*	¼	¾	25
33604-P	*	¼	1	25
33605-P	*	¼	1¼	25
¤33606-P	*	¼	1½	25
¤33607-P	*	¼	1¾	25
33608-P	*	¼	2	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
33616-1P	*	5⁄16	⅝	25
33617-1P	*	5⁄16	¾	25
33619-1P	*	5⁄16	1	25
33620-1P	*	5⁄16	1¼	25
33621-1P	*	5⁄16	1½	25

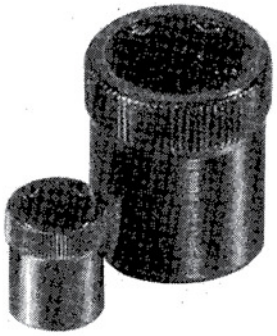
UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
¤33622-1P	*	5⁄16	1¾	25
¤33623-1P	*	5⁄16	2	25
¤33625-1P	*	5⁄16	2½	25
¤33627-1P	*	5⁄16	3	25

UNC Part No. TPI-16	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
33632-P	*	⅜	¾	25
33634-P	*	⅜	1	25
33635-P	*	⅜	1¼	25
33636-P	*	⅜	1½	25
33637-P	*	⅜	1¾	25
33638-P	*	⅜	2	25
¤33639-P	*	⅜	2¼	25
¤33640-P	*	⅜	2½	25
¤33642-P	*	⅜	3	25

UNC Part No. TPI-13	UNF Part No. TPI 20	Dia.	Length (In.)	Unit
33662-P	*	½	1	10
33663-P	*	½	1¼	10
33664-P	*	½	1½	10
33666-P	*	½	2	10
33667-P	*	½	2¼	10
33668-P	*	½	2½	10
33670-P	*	½	3	10

*Item not available

Allenuts



- Coarse and fine threads (UNC/UNF)
- Heat-treated steel

Part No.	Dia. (in.)	Key Size (in.)	Unit
06032	4-40	⅛	100
06034	5-40	⅛	100
06036	6-32	5⁄32	100
06038	8-32	3⁄16	100
06040	10-24	3⁄16	100
07030	10-32	3⁄16	100
06042	¼-20	¼	100
07032	¼-28	¼	100
06044	5⁄16-18	5⁄16	100
07034	5⁄16-24	5⁄16	100

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Part No.	Dia. (in.)	Key Size (in.)	Unit
06046	⅜-16	⅜	100
07036	⅜-24	⅜	100
06048	7/16-14	7/16	50
07038	7/16-20	7/16	50
06050	½-13	½	50
07040	½-20	½	50
06052	⅝-11	⅝	50
07042	⅝-18	⅝	50
06054	¾-10	¾	50
07044	¾-16	¾	50
06056	⅞-9	⅞	25
07046	⅞-14	⅞	25
06058	1-8	1	25
07048	1-14	1	25

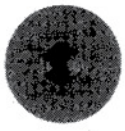
Socket Head Cap Screw Flat Washers Through Hardened

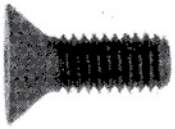
- Use with socket head cap screws to improve the bearing surface in most applications
- Made from 1050 spring steel, C40-45 hardness
- Plain finish

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
360000	No. 6	.143-.153	.218-.230	.022-.028	250
360001	No. 8	.183-.193	.262-.272	.022-.028	250
360002	No. 10	.212-.222	.303-.312	.022-.028	250
360003	¼	.278-.288	.365-.395	.034-.039	100
360004	5/16	.346-.356	.457-.490	.034-.039	100
360005	⅜	.415-.425	.550-.582	.044-.051	100
360006	7/16	.483-.493	.642-.676	.044-.051	50
360007	½	.552-.562	.735-.770	.057-.063	50
360008	⅝	.689-.699	.921-.958	.071-.082	25
360009	¾	.828-.838	1.107-1.145	.112-.127	25
360010	⅞	.963-.973	1.293-1.332	.112-.127	10
360011	1	1.10-1.11	1.479-1.52	.112-.127	10
360012	1¼	1.36-1.367	1.852-1.875	.112-.127	10

Bowmalloy

Bowmalloy Flat Socket Cap Screws





The flat head allows for flush mounting, minimal head exposure, and a better appearance as well as a hex socket head for limited head access, easy installation in recessed applications and resistance to stripping in high-torque applications. They also feature a countersunk shoulder that ensures centering and maximizes bearing surface.

Specifications:

- 160,000 psi minimum tensile strength
- UNC coarse thread and UNF fine thread
- Made in the U.S.A
- Black natural finish

UNC Part No. TPI-40	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C725022	*	No. 4	¼	100
C725024	*	No. 4	⅜	100
¤C725026	*	No. 4	½	100
¤C725030	*	No. 4	¾	100

UNC Part No. TPI-32	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C725062	*	No. 6	¼	100
C725064	*	No. 6	⅜	100
C725066	*	No. 6	½	100
¤C725068	*	No. 6	⅝	100
¤C725070	*	No. 6	¾	100

UNC Part No. TPI-32	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C725104	*	No. 8	⅜	100
C725106	*	No. 8	½	100
C725108	*	No. 8	⅝	100
C725110	*	No. 8	¾	100
¤C725114	*	No. 8	1	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
C725152	C725153	No. 10	⅜	100
C725154	C725155	No. 10	½	100
C725156	C725157	No. 10	⅝	100
C725158	C725159	No. 10	¾	100
C725162	C725163	No. 10	1	100
C725164	¤C725165	No. 10	1 - ¼	100
C725166	C725167	No. 10	1 - ½	100

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
C725202	¤C725203	¼	⅜	100
C725204	C725205	¼	½	100
C725206	C725207	¼	⅝	100
C725208	C725209	¼	¾	100
C725212	C725213	¼	1	100
C725214	C725215	¼	1 - ¼	100
C725216	C725217	¼	1 - ½	100
C725220	*	¼	2	100

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
C725252	C725253	5/16	½	100
¤C725254	¤C725255	5/16	⅝	100
C725256	C725257	5/16	¾	100
C725260	¤C725261	5/16	1	100
C725262	¤C725263	5/16	1 - ¼	100
C725264	*	5/16	1 - ½	100
C725266	*	5/16	1 - ¾	100
C725268	*	5/16	2	100
¤C725270	*	5/16	2 - ¼	100
C725272	*	5/16	2 - ½	100

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
C725306	C725307	⅜	¾	100
C725310	C725311	⅜	1	100
C725312	C725313	⅜	1 - ¼	100
C725314	C725315	⅜	1 - ½	100
C725316	*	⅜	1 - ¾	100
C725318	*	⅜	2	100
¤C725320	*	⅜	2 - ¼	100
C725322	*	⅜	2 - ½	100

UNC Part No. TPI-14	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C725404	*	7/16	¾	100
C725408	*	7/16	1	100
C725410	*	7/16	1 - ¼	50

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
C725504	C725505	½	¾	100
C725508	C725509	½	1	100
C725510	C725511	½	1 - ¼	50
C725512	C725513	½	1 - ½	50
C725514	C725515	½	1 - ¾	50
C725516	C725517	½	2	50
C725520	*	½	2 - ½	25
C725524	*	½	3	25

UNC Part No. TPI-11	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C725608	*	⅝	1 - ¼	25
C725610	*	⅝	1 - ½	25
C725612	*	⅝	1 - ¾	25
C725614	*	⅝	2	25
C725618	*	⅝	2 - ½	25
C725622	*	⅝	3	25

UNC Part No. TPI-10	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C725710	*	¾	1 - ½	25
C725714	*	¾	2	25
C725722	*	¾	3	25

Flat Socket Head Cap Screws

Socket Flat Countersunk Head Cap Screws







- UNC (USS) or UNF (SAE)
- Meets ASTM F835 specifications
- Medium carbon alloy steel
- Through-hardened
- Non-plated

UNC Part No. TPI-*	UNF Part No. TPI-80	Dia.	Length (In.)	Unit
*	¤48290†	No. 0	⅛	100
*	¤48291†	No. 0	3/16	100
*	¤48292†	No. 0	¼	100
*	¤48293†	No. 0	5/16	100
*	¤48294†	No. 0	⅜	100
*	¤48295†	No. 0	½	100

Continued on next page

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UNC Part No. TPI-*	UNF Part No. TPI-72	Dia.	Length (In.)	Unit
*	¤48300†	No. 1	1/8	100
*	¤48301†	No. 1	3/16	100
*	¤48302†	No. 1	1/4	100
*	¤48303†	No. 1	5/16	100
*	¤48304†	No. 1	3/8	100
*	¤48305†	No. 1	1/2	100
*	¤48306†	No. 1	5/8	100

UNC (USS) Part No. TPI-56	UNF (SAE) Part No. TPI-64	Dia.	Length (In.)	Unit
¤48310†	*	No. 2	1/8	100
¤48311†	*	No. 2	3/16	100
¤48312†	*	No. 2	1/4	100
¤48313†	*	No. 2	5/16	100
¤48314†	*	No. 2	3/8	100
¤48315†	*	No. 2	1/2	100
¤48316†	*	No. 2	5/8	100
¤48317†	*	No. 2	3/4	100
¤48318†	*	No. 2	7/8	100
¤48319†	*	No. 2	1	100

UNC Part No. TPI-48	UNF Part No. TPI-56	Dia.	Length (In.)	Unit
¤48320†	*	No. 3	3/16	100
¤48321†	*	No. 3	1/4	100
¤48322†	*	No. 3	5/16	100
¤48323†	*	No. 3	3/8	100
¤48324†	*	No. 3	1/2	100
¤48325†	*	No. 3	5/8	100
¤48326†	*	No. 3	3/4	100
¤48327†	*	No. 3	1	100

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
48330†	*	No. 4	3/16	100
36885	48335†	No. 4	1/4	100
48331†	*	No. 4	5/16	100
36886	¤48336†	No. 4	3/8	100
48332†	*	No. 4	7/16	100
36887	¤48337†	No. 4	1/2	100
36889	*	No. 4	5/8	100
36890	¤48339†	No. 4	3/4	100
36891	*	No. 4	7/8	100
36892	¤48340†	No. 4	1	100
¤48333†	*	No. 4	1 1/4	100

UNC Part No. TPI-40	UNF Part No. TPI-44	Dia.	Length (In.)	Unit
36893	*	No. 5	1/4	100
36894	*	No. 5	3/8	100
36895	*	No. 5	1/2	100
36896	*	No. 5	5/8	100
36897	*	No. 5	3/4	100
¤48345†	*	No. 5	1	100

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
¤48350†	*	No. 6	3/16	100
36899-5	¤48360†	No. 6	1/4	100
48351†	*	No. 6	5/16	100
36899-6	¤48361†	No. 6	3/8	100
¤48352†	*	No. 6	7/16	100
36900	¤48362†	No. 6	1/2	100
36900-1	¤48363†	No. 6	5/8	100

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
36901	¤48364†	No. 6	3/4	100
48353†	*	No. 6	7/8	100
48354†	¤48365†	No. 6	1	100
48355†	*	No. 6	1 1/4	100
48356†	*	No. 6	1 1/2	100
¤48357†	*	No. 6	1 3/4	100
48358†	*	No. 6	2	100

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
48370†	*	No. 8	1/4	100
48371†	*	No. 8	5/16	100
36902	¤48380†	No. 8	3/8	100
¤48372†	*	No. 8	7/16	100
36903	¤48381†	No. 8	1/2	100
36903-1	¤48382†	No. 8	5/8	100
36904	¤48383†	No. 8	3/4	100
48373†	*	No. 8	7/8	100
36905	¤48384†	No. 8	1	100
48374†	*	No. 8	1 1/4	100
48375†	*	No. 8	1 1/2	100
48376†	*	No. 8	1 3/4	100
48377†	*	No. 8	2	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
48390†	48400†	No. 10	1/4	100
48391†	48401†	No. 10	5/16	100
36905-5	36908-5	No. 10	3/8	100
48392†	48402†	No. 10	7/16	100
36906	36909	No. 10	1/2	100
36906-1	36909-1	No. 10	5/8	100
36907	36910	No. 10	3/4	100
48393†	48403†	No. 10	7/8	100
36908	36911	No. 10	1	100
36908-1	36912	No. 10	1 1/4	100
36908-2	36913	No. 10	1 1/2	100
48394†	48404†	No. 10	1 3/4	100
48395†	48405†	No. 10	2	100
¤48396†	¤48406†	No. 10	2 1/4	100
48397†	¤48407†	No. 10	2 1/2	100
48398†	¤48408†	No. 10	3	100

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
36811-1	36863	1/4	3/8	25
36812	36871-1	1/4	1/2	25
36813	36871	1/4	5/8	25
36814	36871-2	1/4	3/4	25
36815	36871-3	1/4	1	25
36816	36871-4	1/4	1 1/4	25
36817	36871-5	1/4	1 1/2	25
36817-1	*	1/4	1 3/4	25
36818	36871-7	1/4	2	25
36818-1	*	1/4	2 1/4	25
36818-2	*	1/4	2 1/2	25
36819	*	1/4	3	25
36820	*	1/4	3 1/2	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
36821	36872-1	5/16	1/2	25
36822	36872-5	5/16	5/8	25
36823	36872-2	5/16	3/4	25
36823-1	*	5/16	7/8	25
36824	36872-3	5/16	1	25
36825	36872-4	5/16	1 1/4	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
36826	36872-6	5/16	1 1/2	25
36826-1	*	5/16	1 3/4	25
36827	*	5/16	2	25
36827-1	*	5/16	2 1/4	25
36827-2	*	5/16	2 1/2	25
36828	*	5/16	3	25

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
36831	*	3/8	1/2	25
36832	36872-7	3/8	5/8	25
36833	36873	3/8	3/4	25
36834	36874	3/8	1	25
36835	36875	3/8	1 1/4	25
36836	36876	3/8	1 1/2	25
36837	*	3/8	1 3/4	25
36838	*	3/8	2	25
36839	*	3/8	2 1/4	25
36840	*	3/8	2 1/2	25
36842	*	3/8	3	25
48409-1†	*	3/8	3 1/2	25
48409-2†	*	3/8	4	10

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
36845	*	7/16	3/4	25
36846	*	7/16	1	25
36847	*	7/16	1 1/4	25
36848	*	7/16	1 1/2	25

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
36853	36878	1/2	3/4	10
36854	36879	1/2	1	10
36855	36880	1/2	1 1/4	10
36856	36881	1/2	1 1/2	10
36857	36882	1/2	1 3/4	10
36858	36883	1/2	2	10
36859	*	1/2	2 1/4	10
36860	*	1/2	2 1/2	10
36862	*	1/2	3	10
48409-3†	*	1/2	3 1/2	10
✦CD563426	*	1/2	4	25

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia.	Length (In.)	Unit
36864-1	*	5/8	1	10
36864	*	5/8	1 1/4	10
36865	*	5/8	1 1/2	10
36866	*	5/8	1 3/4	10
36867	*	5/8	2	10
36868	*	5/8	2 1/4	10
36869	*	5/8	2 1/2	10
KP58112	*	5/8	2 3/4	10
36869-3	*	5/8	3	10
✦CD564027	*	5/8	3 1/2	25

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia.	Length (In.)	Unit
36870	*	3/4	1 1/4	10
36870-1	*	3/4	1 1/2	10
36870-2	*	3/4	1 3/4	10
36870-3	*	3/4	2	10
36870-6	*	3/4	2 1/4	10
36870-4	*	3/4	2 1/2	10

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Socket Screws

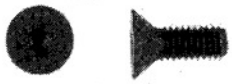
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UNC Part No. TPI-10	UNF Part No. TPI-16	Dia.	Length (In.)	Unit
36870-5	*	¾	3	10
48409-4†	*	¾	3½	5
48409-5†	*	¾	4	5

UNC Part No. TPI-9	UNF Part No. TPI-14	Dia.	Length (In.)	Unit
48409-6†	*	⅞	2½	5
48409-7†	*	⅞	3	5
48409-8†	*	⅞	3½	5
48409-9†	*	⅞	4	5

†Bowman semi-standard socket products are offered in lengths that are not normally stocked by the industry. Pricing will vary.
*Item not available
✦Canada only

Socket Flat Countersunk Head Cap Screws with Nylon Locking Pellet



- UNC (USS) or UNF (SAE)
- Meets ASTM F835 specifications
- With pellet, meets MIL-F-18240 specifications
- Medium carbon alloy steel
- Through-hardened
- Nylon 11 pellet
- Non-plated

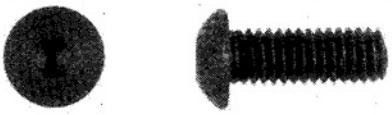
UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
*	36909-P	No. 10	½	25

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
36812-P	*	¼	½	25
36813-P	*	¼	⅝	25
36814-P	*	¼	¾	25

*Item not available

Bowmalloy

Bowmalloy Button Socket Head Cap Screws



The button head allows for low-profile fastening and a better appearance as well as a hex socket head for limited head access and resistance to stripping in high-torque applications.

Specifications:

- 160,000psi minimum tensile strength
- UNC coarse thread and UNF fine thread
- Black natural finish

UNC Part No. TPI-40	UNF Part No. TPI	Dia.	Length (In.)	Unit
C723022	*	No. 4	¼	100
¤C723024	*	No. 4	⅜	100
¤C723026	*	No. 4	½	100

UNC Part No. TPI-32	UNF Part No. TPI	Dia.	Length (In.)	Unit
C723062	*	No. 6	¼	100
C723064	*	No. 6	⅜	100
C723066	*	No. 6	½	100

UNC Part No. TPI-32	UNF Part No. TPI	Dia.	Length (In.)	Unit
C723102	*	No. 8	¼	100
C723104	*	No. 8	⅜	100
C723106	*	No. 8	½	100
C723110	*	No. 8	¾	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
	C723151	No. 10	¼	100
C723152	C723153	No. 10	⅜	100
C723154	C723155	No. 10	½	100
C723156	C723157	No. 10	⅝	100
C723158	C723159	No. 10	¾	100
¤C723160	*	No. 10	⅞	50
¤C723162	C723163	No. 10	1	50

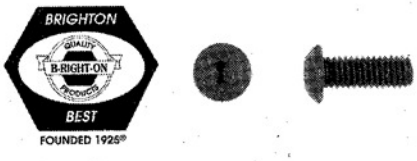
UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
C723202	*	¼	⅜	100
C723204	C723205	¼	½	100
C723206	C723207	¼	⅝	100
C723208	C723209	¼	¾	100
C723210	*	¼	⅞	50
C723212	¤C723213	¼	1	50

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
C723252	¤C723253	5⁄16	½	100
C723254	*	5⁄16	⅝	100
C723256	¤C723257	5⁄16	¾	100
¤C723258	*	5⁄16	⅞	50
C723260	C723261	5⁄16	1	50

UNC Part No. TPI-16	UNF Part No. TPI-	Dia.	Length (In.)	Unit
¤C723302	*	⅜	½	50
¤C723304	*	⅜	⅝	50
C723306	*	⅜	¾	50
C723310	*	⅜	1	50
¤C723312	*	⅜	1 - ¼	50

Button Socket Cap Screws

Socket Button Head Cap Screws



- UNC (USS) or UNF (SAE)
- Medium carbon alloy steel
- Through-hardened
- Non-plated
- Meets ASTM F835 specifications

UNC Part No. TPI-*	UNF Part No. TPI-80	Dia.	Length (In.)	Unit
*	¤48200†	No. 0	⅛	100
*	¤48201†	No. 0	3⁄16	100
*	¤48202†	No. 0	¼	100
*	¤48204†	No. 0	⅜	100

UNC Part No. TPI-*	UNF Part No. TPI-72	Dia.	Length (In.)	Unit
*	¤48210†	No. 1	⅛	100
*	¤48211†	No. 1	3⁄16	100
*	¤48212†	No. 1	¼	100
*	¤48213†	No. 1	5⁄16	100
*	¤48214†	No. 1	⅜	100
*	¤48215†	No. 1	½	100
*	¤48216†	No. 1	⅝	100

UNC Part No. TPI-56	UNF Part No. TPI-64	Dia.	Length (In.)	Unit
¤48220†	*	No. 2	⅛	100
¤48221†	*	No. 2	3⁄16	100
¤48222†	*	No. 2	¼	100
¤48223†	*	No. 2	5⁄16	100
¤48224†	*	No. 2	⅜	100
¤48225†	*	No. 2	½	100
¤48226†	*	No. 2	⅝	100
¤48227†	*	No. 2	¾	100
¤48228†	*	No. 2	1	100

UNC Part No. TPI-48	UNF Part No. TPI-56	Dia.	Length (In.)	Unit
¤48230†	*	No. 3	3⁄16	100
¤48231†	*	No. 3	¼	100
¤48232†	*	No. 3	5⁄16	100
¤48233†	*	No. 3	⅜	100
¤48234†	*	No. 3	½	100
¤48235†	*	No. 3	⅝	100
¤48236†	*	No. 3	¾	100
¤48237†	*	No. 3	1	100

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
40855-2	*	No. 4	3⁄16	100
40855	*	No. 4	¼	100
40855-3	*	No. 4	5⁄16	100
40855-1	*	No. 4	⅜	100
40855-4	*	No. 4	7⁄16	100
40856	*	No. 4	½	100

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UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
40856-1	*	No. 4	5/16	100
40856-2	*	No. 4	3/4	100
40856-3	*	No. 4	7/8	100
40856-4	*	No. 4	1	100

UNC Part No. TPI-40	UNF Part No. TPI-44	Dia.	Length (In.)	Unit
48240†	*	No. 5	1/4	100
48241†	*	No. 5	3/8	100
48242†	*	No. 5	1/2	100
48243†	*	No. 5	5/8	100
48244†	*	No. 5	3/4	100
48245†	*	No. 5	1	100

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
40857-1	*	No. 6	3/16	100
40857	¤48255†	No. 6	1/4	100
40857-2	*	No. 6	5/16	100
40858	—	No. 6	3/8	50
—	¤48256†	No. 6	3/8	100
40858-1	*	No. 6	7/16	100
40859	¤48257†	No. 6	1/2	100
40860	*	No. 6	5/8	50
40860-2	*	No. 6	3/4	100
40860-4	*	No. 6	1	100
48250†	*	No. 6	1 1/4	100
48251†	*	No. 6	1 1/2	100

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
40860-7	*	No. 8	3/16	100
40860-1	¤48265†	No. 8	1/4	100
40860-8	*	No. 8	5/16	100
40861	—	No. 8	3/8	50
—	¤48266†	No. 8	3/8	100
40861-1	*	No. 8	7/16	100
40862	—	No. 8	1/2	50
—	¤48267†	No. 8	1/2	100
40863	—	No. 8	5/8	50
—	¤48268†	No. 8	5/8	100
40863-1	—	No. 8	3/4	50
—	¤48269	No. 8	3/4	100
40863-2	*	No. 8	7/8	100
40863-3	¤48270†	No. 8	1	100
48260†	*	No. 8	1 1/4	100
48261†	*	No. 8	1 1/2	100
48262†	*	No. 8	1 3/4	100
48263†	*	No. 8	2	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
40864	40864-1	No. 10	1/4	100
40864-2	40864-3	No. 10	5/16	100
40865	40865-1	No. 10	3/8	100
40865-2	40865-3	No. 10	7/16	100
40866	40866-2	No. 10	1/2	50
40866-1	40866-3	No. 10	5/8	50
40867	40867-2	No. 10	3/4	50
40867-1	40867-3	No. 10	7/8	50
40868	40868-1	No. 10	1	50
48276†	48280†	No. 10	1 1/4	100
48277†	—	No. 10	1 1/2	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
—	40868-7	No. 10	1 1/2	50
48278†	48281†	No. 10	1 3/4	100
¤48279	¤48282	No. 10	2	100

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
40874	40869	1/4	3/8	50
40875	40869-1	1/4	1/2	50
40876	40869-2	1/4	5/8	100
MP40876	-	1/4	5/8	50
40877	40869-3	1/4	3/4	50
40877-1	*	1/4	7/8	50
40878	40869-4	1/4	1	50
40878-3	*	1/4	1 1/4	50
40878-4	*	1/4	1 1/2	50
40878-5	*	1/4	1 3/4	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
40878-1	*	5/16	3/8	50
40878-2	40870-1	5/16	1/2	50
40879-1	40870-4	5/16	5/8	50
40879-2	40870-2	5/16	3/4	50
40880-1	*	5/16	7/8	50
40881	40870-3	5/16	1	50
40881-1	*	5/16	1 1/4	50
40881-3	*	5/16	1 1/2	50

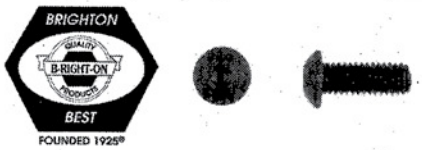
UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
40882	40870-5	3/8	1/2	50
40882-1	*	3/8	5/8	50
40882-2	*	3/8	3/4	50
40883-1	*	3/8	7/8	50
40883-2	40871	3/8	1	50
40884-1	*	3/8	1 1/4	50
40884-2	*	3/8	1 1/2	50
40884-3	*	3/8	1 3/4	50
40884-4	*	3/8	2	50

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
40885-1	*	1/2	3/4	25
40885	*	1/2	1	25
40886	*	1/2	1 1/4	25
40887	*	1/2	1 1/2	25
40888	*	1/2	2	25

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia.	Length (In.)	Unit
40889	*	5/8	1	25
40889-1	*	5/8	1 1/4	25
40889-2	*	5/8	1 1/2	25
40889-3	*	5/8	2	25

† Bowman semi-standard socket products are offered in lengths that are not normally stocked by the industry. Pricing will vary.
*Item not available.

Socket Button Head Cap Screws with Nylon Locking Pellet



- UNC (USS) or UNF (SAE)
- Meets ASTM F835 specifications
- With pellet, meets MIL-F-18240 specifications
- Medium carbon alloy steel
- Through-hardened
- Nylon 11 pellet
- Non-plated

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
¤40860-1P	*	No. 8	1/4	25
¤40861-P	*	No. 8	3/8	25

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
*	¤40865-1P	No. 10	3/8	25
*	¤40866-2P	No. 10	1/2	25
*	¤40866-3P	No. 10	5/8	25
*	¤40868-1P	No. 10	1	25

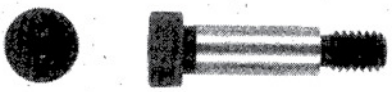
UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
¤40874-P	*	1/4	3/8	25
¤40875-P	*	1/4	1/2	25
¤40876-P	*	1/4	5/8	25
¤40877-P	*	1/4	3/4	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
¤40879-1P	*	5/16	5/8	25
¤40879-2P	*	5/16	3/4	25
¤40881-P	*	5/16	1	25

*Item not available

Bowmalloy

Bowmalloy Socket Head Shoulder Screws



Specifications:

- 160,000psi minimum tensile strength
- Black natural finish

These high strength screws feature a hex socket head design for improved appearance and easier access plus a precision machined shoulder that ensures roundness. Use them anywhere Stripper Bolts are used as part of a die spring assembly a fastener must apss through a sleeve or bushing to thread.

Continued on next page

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Part No.	Thread Size	Shoulder dia. (In.)	Shoulder Length (In.)	Unit
C727202	10 - 24 x 3/8	1/4	3/8	25
C727204	10 - 24 x 3/8	1/4	1/2	25
¤C727206	10 - 24 x 3/8	1/4	5/8	25
C727208	10 - 24 x 3/8	1/4	3/4	25
C727212	10 - 24 x 3/8	1/4	1	25
C727214	10 - 24 x 3/8	1/4	1 - 1/4	25
C727216	10 - 24 x 3/8	1/4	1 - 1/2	25

Part No.	Thread Size	Shoulder dia. (In.)	Shoulder Length (In.)	Unit
C727250	14 - 20 x 7/16	5/16	3/8	25
C727252	14 - 20 x 7/16	5/16	1/2	25
C727254	14 - 20 x 7/16	5/16	5/8	25
C727256	14 - 20 x 7/16	5/16	3/4	25
C727260	14 - 20 x 7/16	5/16	1	25
C727264	14 - 20 x 7/16	5/16	1 - 1/2	25
C727266	14 - 20 x 7/16	5/16	1 - 3/4	25
C727268	14 - 20 x 7/16	5/16	2	25

Part No.	Thread Size	Shoulder dia. (In.)	Shoulder Length (In.)	Unit
C727300	5/16 - 18 x 1/2	3/8	3/8	25
C727302	5/16 - 18 x 1/2	3/8	1/2	25
C727304	5/16 - 18 x 1/2	3/8	5/8	25
C727306	5/16 - 18 x 1/2	3/8	3/4	25
C727310	5/16 - 18 x 1/2	3/8	1	25
C727312	5/16 - 18 x 1/2	3/8	1 - 1/4	25
C727314	5/16 - 18 x 1/2	3/8	1 - 1/2	25
C727316	5/16 - 18 x 1/2	3/8	1 - 3/4	25
C727318	5/16 - 18 x 1/2	3/8	2	25
C727322	5/16 - 18 x 1/2	3/8	2 - 1/2	25
C727326	5/16 - 18 x 1/2	3/8	3	25
C727330	5/16 - 18 x 1/2	3/8	3 - 1/2	25
C727334	5/16 - 18 x 1/2	3/8	4	25

Part No.	Thread Size	Shoulder dia. (In.)	Shoulder Length (In.)	Unit
C727500	3/8 - 16 x 3/8	1/2	1/2	25
C727502	3/8 - 16 x 3/8	1/2	5/8	25
C727504	3/8 - 16 x 3/8	1/2	3/4	25
C727508	3/8 - 16 x 3/8	1/2	1	25
C727510	3/8 - 16 x 3/8	1/2	1 - 1/4	25
C727512	3/8 - 16 x 3/8	1/2	1 - 1/2	25
C727514	3/8 - 16 x 3/8	1/2	1 - 3/4	25
C727516	3/8 - 16 x 3/8	1/2	2	25
C727520	3/8 - 16 x 3/8	1/2	2 - 1/2	25
C727524	3/8 - 16 x 3/8	1/2	3	25
C727528	3/8 - 16 x 3/8	1/2	3 - 1/2	25
¤C727532	3/8-16 X 3/8	1/2	4	25
C727534	3/8 - 16 x 3/8	1/2	4 - 1/2	10
C727536	3/8 - 16 x 3/8	1/2	5	10

Part No.	Thread Size	Shoulder dia. (In.)	Shoulder Length (In.)	Unit
C727608	1/2 - 13 x 3/4	5/8	1 - 1/4	25
C727610	1/2 - 13 x 3/4	5/8	1 - 1/2	25
C727612	1/2 - 13 x 3/4	5/8	1 - 3/4	25
C727614	1/2 - 13 x 3/4	5/8	2	25
C727616	1/2 - 13 x 3/4	5/8	2 - 1/4	25
C727618	1/2 - 13 x 3/4	5/8	2 - 1/2	25
C727622	1/2 - 13 x 3/4	5/8	3	25
C727626	1/2 - 13 x 3/4	5/8	3 - 1/2	25
C727630	1/2 - 13 x 3/4	5/8	4	25
¤C727632	3/8 - 16 x 5/8	1/2	4	25
C727634	1/2 - 13 x 3/4	5/8	5	10
¤C727636	1/2 - 13 x 3/4	5/8	5 - 1/2	10
C727638	5/8 - 11 x 7/8	5/8	6	10

Part No.	Thread Size	Shoulder dia. (In.)	Shoulder Length (In.)	Unit
C727708	5/8 - 11 x 7/8	3/4	1 - 1/2	25
C727710	5/8 - 11 x 7/8	3/4	1 - 3/4	10
C727712	5/8 - 11 x 7/8	3/4	2	10
¤C727714	5/8 - 11 x 7/8	3/4	2 - 1/4	10
C727716	5/8 - 11 x 7/8	3/4	2 - 1/2	10
C727718	5/8 - 11 x 7/8	3/4	2 - 3/4	10
C727720	5/8 - 11 x 7/8	3/4	3	10
C727724	5/8 - 11 x 7/8	3/4	3 - 1/2	10
C727728	5/8 - 11 x 7/8	3/4	4	10
C727730	5/8 - 11 x 7/8	3/4	4 - 1/2	10
¤C727732	5/8 - 11 x 7/8	3/4	5	10
C727734	5/8 - 11 x 7/8	3/4	5 - 1/2	10
C727736	5/8 - 11 x 7/8	3/4	6	10

Socket Head Shoulder Screws

Socket Head Shoulder Screws





- UNC (USS)
- Meets ANSI/ASME B18.3 specifications
- Medium carbon alloy steel
- Through-hardened
- 140,000 psi minimum tensile strength
- Non-plated

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
40799	10-24 x 3/8	1/4	1/4	25
40800	10-24 x 3/8	1/4	3/8	25
40801	10-24 x 3/8	1/4	1/2	25
40801-1	10-24 x 3/8	1/4	5/8	25
40802	10-24 x 3/8	1/4	3/4	25
40803	10-24 x 3/8	1/4	1	25
40803-1	10-24 x 3/8	1/4	1 1/4	25
40803-2	10-24 x 3/8	1/4	1 1/2	25
40803-3	10-24 x 3/8	1/4	1 3/4	10
40803-4	10-24 x 3/8	1/4	2	10

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
40804-3	1/4-20 x 7/16	5/16	1/4	25
40804-2	1/4-20 x 7/16	5/16	3/8	25
40804	1/4-20 x 7/16	5/16	1/2	25
40804-1	1/4-20 x 7/16	5/16	5/8	25
40805	1/4-20 x 7/16	5/16	3/4	25
40806	1/4-20 x 7/16	5/16	1	25
40807	1/4-20 x 7/16	5/16	1 1/4	25
40807-1	1/4-20 x 7/16	5/16	1 1/2	25
40807-2	1/4-20 x 7/16	5/16	1 3/4	25
40807-3	1/4-20 x 7/16	5/16	2	25

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
40808	5/16-18 x 1/2	3/8	3/8	25
MP40808	5/16-18 x 1/2	3/8	3/8	10
40809	5/16-18 x 1/2	3/8	1/2	25
MP40809	5/16-18 x 1/2	3/8	1/2	10
40809-1	5/16-18 x 1/2	3/8	5/8	25
40810	5/16-18 x 1/2	3/8	3/4	25
MP40810	5/16-18 x 1/2	3/8	3/4	10
40811	5/16-18 x 1/2	3/8	1	25

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
MP40811	5/16-18 x 1/2	3/8	1	10
40812	5/16-18 x 1/2	3/8	1 1/4	25
MP40812	5/16-18 x 1/2	3/8	1 1/4	10
40813	5/16-18 x 1/2	3/8	1 1/2	25
40813-1	5/16-18 x 1/2	3/8	1 3/4	25
40814	5/16-18 x 1/2	3/8	2	25
40814-1	5/16-18 x 1/2	3/8	2 1/4	25
40814-2	5/16-18 x 1/2	3/8	2 1/2	25
40814-3	5/16-18 x 1/2	3/8	2 3/4	25
40814-4	5/16-18 x 1/2	3/8	3	25
40814-5	5/16-18 x 1/2	3/8	3 1/4	25
40814-6	5/16-18 x 1/2	3/8	3 1/2	25
40814-8	5/16-18 x 1/2	3/8	3 3/4	25
40814-7	5/16-18 x 1/2	3/8	4	25

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
40815	3/8-16 x 5/8	1/2	3/8	25
40816	3/8-16 x 5/8	1/2	1/2	25
MP40816	3/8-16 x 5/8	1/2	1/2	10
40816-1	3/8-16 x 5/8	1/2	5/8	25
40817	3/8-16 x 5/8	1/2	3/4	25
MP40817	3/8-16 x 5/8	1/2	3/4	10
40818	3/8-16 x 5/8	1/2	1	25
MP40818	3/8-16 x 5/8	1/2	1	10
40819	3/8-16 x 5/8	1/2	1 1/4	25
40820	3/8-16 x 5/8	1/2	1 1/2	25
40820-1	3/8-16 x 5/8	1/2	1 3/4	25
40821	3/8-16 x 5/8	1/2	2	25
40821-1	3/8-16 x 5/8	1/2	2 1/4	25
40821-2	3/8-16 x 5/8	1/2	2 1/2	25
40821-3	3/8-16 x 5/8	1/2	2 3/4	25
40821-4	3/8-16 x 5/8	1/2	3	25
40821-5	3/8-16 x 5/8	1/2	3 1/4	25
40835	3/8-16 x 5/8	1/2	3 1/2	25
40836	3/8-16 x 5/8	1/2	3 3/4	25
40835-1	3/8-16 x 5/8	1/2	4	25
40835-2	3/8-16 x 5/8	1/2	4 1/4	25
40835-3	3/8-16 x 5/8	1/2	4 1/2	25
40835-5	3/8-16 x 5/8	1/2	4 3/4	10
40835-4	3/8-16 x 5/8	1/2	5	10

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
40822-3	1/2-13 x 3/4	5/8	1/2	25
40822-1	1/2-13 x 3/4	5/8	3/4	25
40822-2	1/2-13 x 3/4	5/8	1	25
40822	1/2-13 x 3/4	5/8	1 1/4	25
40823	1/2-13 x 3/4	5/8	1 1/2	25
40823-1	1/2-13 x 3/4	5/8	1 3/4	25
40824	1/2-13 x 3/4	5/8	2	25
40824-1	1/2-13 x 3/4	5/8	2 1/4	25
40824-2	1/2-13 x 3/4	5/8	2 1/2	25
40824-3	1/2-13 x 3/4	5/8	2 3/4	25
40825	1/2-13 x 3/4	5/8	3	25
40826	1/2-13 x 3/4	5/8	3 1/4	25
40827	1/2-13 x 3/4	5/8	3 1/2	25
40827-1	1/2-13 x 3/4	5/8	3 3/4	10
40828	1/2-13 x 3/4	5/8	4	10
40828-1	1/2-13 x 3/4	5/8	4 1/4	10
40829	1/2-13 x 3/4	5/8	4 1/2	10
40829-1	1/2-13 x 3/4	5/8	4 3/4	10
40832	1/2-13 x 3/4	5/8	5	10
40833	1/2-13 x 3/4	5/8	5 1/2	5
40834	1/2-13 x 3/4	5/8	6	5

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
40834-1	5/8-11 x 7/8	3/4	1	10
40854	5/8-11 x 7/8	3/4	1 1/4	10
40837	5/8-11 x 7/8	3/4	1 1/2	10

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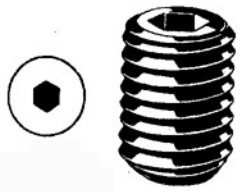
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Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
40838	5/8-11 x 7/8	3/4	1 3/4	10
40839	5/8-11 x 7/8	3/4	2	10
40840	5/8-11 x 7/8	3/4	2 1/4	10
40841	5/8-11 x 7/8	3/4	2 1/2	10
40842	5/8-11 x 7/8	3/4	2 3/4	10
40843	5/8-11 x 7/8	3/4	3	10
40844	5/8-11 x 7/8	3/4	3 1/4	10
40845	5/8-11 x 7/8	3/4	3 1/2	10
40846	5/8-11 x 7/8	3/4	3 3/4	10
40847	5/8-11 x 7/8	3/4	4	5
40848	5/8-11 x 7/8	3/4	4 1/4	5
40849	5/8-11 x 7/8	3/4	4 1/2	5
40850	5/8-11 x 7/8	3/4	4 3/4	5
40851	5/8-11 x 7/8	3/4	5	5
40852	5/8-11 x 7/8	3/4	5 1/2	5
40853	5/8-11 x 7/8	3/4	6	5

Part No.	Thread Size	Shoulder Dia. (In.)	Shoulder Lgth. (In.)	Unit
41001	3/4-10 x 1"	1"	1"	10
41002	3/4-10 x 1"	1"	1 1/4"	10
41003	3/4-10 x 1"	1"	1 1/2"	10
41004	3/4-10 x 1"	1"	1 3/4"	10
41005	3/4-10 x 1"	1"	2"	10
41007	3/4-10 x 1"	1"	2 1/4"	10
41008	3/4-10 x 1"	1"	2 1/2"	10
41009	3/4-10 x 1"	1"	2 3/4"	10
41010	3/4-10 x 1"	1"	3"	10
41011	3/4-10 x 1"	1"	3 1/4"	5
41016	3/4-10 x 1"	1"	3 1/2"	5
41017	3/4-10 x 1"	1"	4"	5
41018	3/4-10 x 1"	1"	4 1/2"	5
41019	3/4-10 x 1"	1"	5"	5
41020	3/4-10 x 1"	1"	6"	5

Bowmalloy

Bowmalloy Socket Set Screws - Cup Point



UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
C771002	¤C771003	No. 4	1/8	100
C771004	*	No. 4	3/16	100
C771006	*	No. 4	1/4	100
¤C771008	*	No. 4	5/16	100

UNC Part No. TPI-40	UNF Part No. TPI-	Dia.	Length (In.)	Unit
¤C771052	*	No. 5	1/8	100
¤C771054	*	No. 5	3/16	100
¤C771056	*	No. 5	1/4	100
¤C771058	*	No. 5	5/16	100
¤C771060	*	No. 5	3/8	100
¤C771066	*	No. 5	5/8	100

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
C771102	¤C771103	No. 6	1/8	100
C771104	¤C771105	No. 6	3/16	100
C771106	¤C771107	No. 6	1/4	100
C771108	*	No. 6	5/16	100
C771110	¤C771109	No. 6	3/8	100
C771114	*	No. 6	1/2	100
C771118	*	No. 6	3/4	100
C771122	*	No. 6	1	100

UNC Part No. TPI-32	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C771152	*	No. 8	1/8	100
C771154	*	No. 8	3/16	100
C771156	*	No. 8	1/4	100
¤C771158	*	No. 8	5/16	100
C771160	*	No. 8	3/8	100
C771164	*	No. 8	1/2	100
¤C771166	*	No. 8	5/8	100
C771168	*	No. 8	3/4	100
¤C771170	*	No. 8	7/8	100
¤C771172	*	No. 8	1	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
¤C771204	¤C771205	No. 10	3/16	100
C771206	C771207	No. 10	1/4	100
¤C771208	¤C771209	No. 10	5/16	100
C771210	C771211	No. 10	3/8	100
C771214	C771215	No. 10	1/2	100
C771216	¤C771217	No. 10	5/8	100
C771218	C771219	No. 10	3/4	100
¤C771220	*	No. 10	7/8	100
C771222	C771223	No. 10	1	100
	C771225	No. 10	1 - 1/4	100

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
C771254	¤C771255	1/4	1/8	100
C771256	¤C771257	1/4	1/4	100
C771258	¤C771259	1/4	5/16	100
C771260	¤C771261	1/4	3/8	100
C771264	¤C771265	1/4	1/2	100
C771266	¤C771267	1/4	5/8	100
C771268	¤C771269	1/4	3/4	100
C771270	*	1/4	7/8	100
C771272	C771273	1/4	1	100
C771274	*	1/4	1 - 1/4	100
C771276	*	1/4	1 - 1/2	100
C771280	*	1/4	2	100

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
C771306	¤C771307	5/16	1/8	100
C771308	¤C771309	5/16	5/16	100
C771310	C771311	5/16	3/8	100
C771314	¤C771315	5/16	1/2	100
C771316	¤C771317	5/16	5/8	100
C771318	¤C771319	5/16	3/4	100
¤C771320	¤	5/16	7/8	100
C771322	¤	5/16	1	100
¤C771324	¤	5/16	1 - 1/4	100
¤C771326	¤	5/16	1 - 1/2	100

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
C771356	¤C771357	3/8	1/4	100
C771360	C771361	3/8	3/8	100
C771364	C771365	3/8	1/2	100
C771366	*	3/8	5/8	100
C771368	C771369	3/8	3/4	100
C771372	*	3/8	1	100
C771376	*	3/8	1 - 1/2	100
¤C771378	*	3/8	1 - 3/4	100
C771380	*	3/8	2	100
¤C771382	*	3/8	2 - 1/2	50

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
C771410	*	7/16	3/8	100
C771414	*	7/16	1/2	100
C771418	*	7/16	3/4	100
C771422	*	7/16	1	50
C771426	*	7/16	1 - 1/2	50

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
C771464	C771465	1/2	1/2	100
C771466	*	1/2	5/8	100
C771468	¤C771469	1/2	3/4	50
C771472	¤C771473	1/2	1	50
¤C771474	*	1/2	1 - 1/4	50
C771476	*	1/2	1 - 1/2	50
¤C771478	*	1/2	1 - 3/4	50
C771480	*	1/2	2	50
¤C771482	*	1/2	2 - 1/2	50
¤C771484	*	1/2	3	50

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia.	Length (In.)	Unit
¤C771516	¤C771517	5/8	5/8	50
C771518	*	5/8	3/4	50
C771522	¤C771523	5/8	1	50
C771524	*	5/8	1 - 1/4	50
¤C771526	*	5/8	1 - 1/2	25
¤C771530	*	5/8	2	25

UNC Part No. TPI-10	UNF Part No. TPI-	Dia.	Length (In.)	Unit
C771568	¤	3/4	3/4	50
C771572	¤	3/4	1	50
¤C771574	¤	3/4	1 - 1/4	25
¤C771576	¤	3/4	1 - 1/2	25
¤C771580	¤	3/4	2	10
¤C771584	¤	3/4	3	10

UNC Part No. TPI-9	UNF Part No. TPI-	Dia.	Length (In.)	Unit
¤C771622	*	7/8	1	50

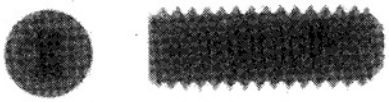
UNC Part No. TPI-8	UNF Part No. TPI-	Dia.	Length (In.)	Unit
¤C771672	*	1	1	10
¤C771680	*	1	2	10
¤C771684	*	1	3	25

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Bowmalloy Socket Set Screws - Knurled Point



They feature a socket head design for flushed or recessed applications and a knurled point for outstanding resistance to shock, vibration and temperature.

Specifications:

- Black natural finish

UNC Part No.	Dia.	Length (In.)	Unit
¤C770002	No.4 - 40	⅛	100

UNC Part No.	Dia.	Length (In.)	Unit
¤C770102	No. 6 - 32	⅛	100
¤C770104	No. 6 - 32	3⁄16	100
¤C770106	No. 6 - 32	¼	100

UNC Part No.	Dia.	Length (In.)	Unit
¤C770152	No. 8 - 32	⅛	100
¤C770154	No. 8 - 32	3⁄16	100
¤C770156	No. 8 - 32	¼	100
¤C770160	No. 8 - 32	⅜	100

UNC Part No.	Dia.	Length (In.)	Unit
C770254	¼ - 20	3⁄16	100
C770256	¼ - 20	¼	100
C770258	¼ - 20	5⁄16	100
C770260	¼ - 20	⅜	100
C770264	¼ - 20	½	100
C770268	¼ - 20	¾	100

UNC Part No.	Dia.	Length (In.)	Unit
C770306	5⁄16 - 18	¼	100
¤C770308	5⁄16 - 18	5⁄16	100
C770310	5⁄16 - 18	⅜	100
C770314	5⁄16 - 18	½	100
¤C770316	5⁄16 - 18	⅝	100
C770318	5⁄16 - 18	¾	100
C770322	5⁄16 - 18	1	100

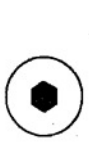
UNC Part No.	Dia.	Length (In.)	Unit
C770360	⅜ - 16	⅜	100
C770364	⅜ - 16	½	100
C770368	⅜ - 16	¾	100
C770372	⅜ - 16	1	100

UNC Part No.	Dia.	Length (In.)	Unit
C770464	½ - 13	½	100
C770466	½ - 13	⅝	100
C770468	½ - 13	¾	50
C770472	½ - 13	1	50

Socket Set Screws

Socket Set Screws
Cup Point Type







- UNC (USS) or UNF (SAE)
- Meets ASTM F912 specifications
- Medium carbon alloy steel
- Through-hardened
- Non-plated

UNC Part No. TPI-*	UNF Part No. TPI-80	Dia.	Length (In.)	Unit
*	¤48550†	No. 0	1⁄16	100
*	¤48551†	No. 0	3⁄32	100
*	¤48552†	No. 0	⅛	100
*	¤48553†	No. 0	5⁄32	100
*	¤48554†	No. 0	3⁄16	100
*	¤48555†	No. 0	¼	100
*	¤48556†	No. 0	5⁄16	100
*	¤48557†	No. 0	⅜	100

UNC Part No. TPI-64	UNF Part No. TPI-72	Dia. (In.)	Length (In.)	Unit
*	¤48565†	No. 1	1⁄16	100
*	¤48566†	No. 1	3⁄32	100
¤48560†	¤48567†	No. 1	⅛	100
¤48561†	¤48568†	No. 1	3⁄16	100
¤48562†	¤48569†	No. 1	¼	100
*	¤48570†	No. 1	5⁄16	100
*	¤48571†	No. 1	⅜	100

UNC Part No. TPI-56	UNF Part No. TPI-64	Dia. (In.)	Length (In.)	Unit
¤40300	*	No. 2	1⁄16	100
¤40301	¤48580†	No. 2	3⁄32	100
¤40302	¤48581†	No. 2	⅛	100
¤40303	¤48582†	No. 2	3⁄16	100
¤40304	¤48583†	No. 2	¼	100
¤48576†	*	No. 2	5⁄16	100
¤48577†	*	No. 2	⅜	100
¤48578†	*	No. 2	½	100

UNC Part No. TPI-48	UNF Part No. TPI-56	Dia. (In.)	Length (In.)	Unit
¤48585†	*	No. 3	1⁄16	100
¤40305	*	No. 3	3⁄32	100
¤40306	¤48590†	No. 3	⅛	100
¤48586†	*	No. 3	5⁄32	100
¤40307	¤48591†	No. 3	3⁄16	100
¤40308	¤48592†	No. 3	¼	100
¤48587†	¤48593†	No. 3	5⁄16	100
¤48588†	¤48594†	No. 3	⅜	100
¤48589†	*	No. 3	½	100

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
40309	¤40457	No. 4	⅛	100
40310	¤40457-1	No. 4	3⁄16	100
40311	¤48601†	No. 4	¼	100
40312	¤48602†	No. 4	5⁄16	100
40313	¤48603†	No. 4	⅜	100
¤48595†	*	No. 4	7⁄16	100
40315	¤48604†	No. 4	½	100
40316	¤48605†	No. 4	⅝	100
*	*	No. 4	¾	100
¤48597†	*	No. 4	⅞	100
¤48598†	*	No. 4	1	100

UNC (USS) Part No. TPI-40	UNF (SAE) Part No. TPI-44	Dia. (In.)	Length (In.)	Unit
40317	*	No. 5	⅛	100
40318	¤48616†	No. 5	3⁄16	100
40319	¤48617†	No. 5	¼	100
40320	¤48618†	No. 5	5⁄16	100
40321	¤48619†	No. 5	⅜	100
¤48610†	*	No. 5	7⁄16	100
40323	*	No. 5	½	100
40324	*	No. 5	⅝	100
40325	*	No. 5	¾	100
¤48611†	*	No. 5	1	100

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia. (In.)	Length (In.)	Unit
40326	¤40459	No. 6	⅛	100
40327	40460	No. 6	3⁄16	100
MP40327	-	No. 6	3⁄16	50
40328	¤40461	No. 6	¼	100
MP40328	-	No. 6	¼	50
40329	¤48627†	No. 6	5⁄16	100
40330	40462-1	No. 6	⅜	100
MP40330	-	No. 6	⅜	50
40331-1	*	No. 6	7⁄16	100
40332	*	No. 6	½	100
40333	*	No. 6	⅝	100
40334	*	No. 6	¾	100
40335	*	No. 6	⅞	100
40336	*	No. 6	1	100
¤48620†	*	No. 6	1¼	100
¤48621†	*	No. 6	1½	100

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia. (In.)	Length (In.)	Unit
40337	¤40463	No. 8	⅛	100
40338	40464	No. 8	3⁄16	100
MP40338	MP40464	No. 8	3⁄16	50
40339	40465	No. 8	¼	100
MP40339	MP40465	No. 8	¼	50
40340	¤48635†	No. 8	5⁄16	100
40341	40466-1	No. 8	⅜	100
MP40341	-	No. 8	⅜	50
40342	*	No. 8	7⁄16	100
40343	48636†	No. 8	½	100
MP40343	-	No. 8	½	50
40344	*	No. 8	⅝	100
40345	*	No. 8	¾	100
MP40345	*	No. 8	¾	50
40346	*	No. 8	⅞	100
40347	*	No. 8	1	100
48630†	*	No. 8	1¼	100
48631†	*	No. 8	1½	100
48632†	*	No. 8	1¾	100

Continued on next page

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Continued from previous page

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia. (In.)	Length (In.)	Unit
48633†	*	No. 8	2	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia. (In.)	Length (In.)	Unit
48640†	48650†	No. 10	⅛	100
40348	40467	No. 10	3⁄16	100
MP40348	MP40467	No. 10	3⁄16	50
40349	40468	No. 10	¼	100
MP40349	MP40468	No. 10	¼	50
40350	40469	No. 10	5⁄16	100
40351	40470	No. 10	3⁄8	100
MP40351	MP40470	No. 10	3⁄8	50
48641†	48651†	No. 10	7⁄16	100
40353	40471	No. 10	½	100
MP40353	MP40471	No. 10	½	50
40354	40472	No. 10	5⁄8	100
40355	40473	No. 10	¾	100
40356	48653†	No. 10	⅞	100
40357	40474	No. 10	1	100
40358	40474-1	No. 10	1¼	100
48642†	48654†	No. 10	1½	100
¤48643†	¤48655†	No. 10	1¾	100
¤48644†	48656	No. 10	2	100
¤48645†	¤48657†	No. 10	2½	100

UNC Part No. TPI-24	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
48660†	*	No. 12	3⁄16	100
48661†	48670†	No. 12	¼	100
48662†	*	No. 12	5⁄16	100
48663†	48671†	No. 12	3⁄8	100
48664†	48672†	No. 12	½	100
48665†	*	No. 12	5⁄8	100
48666†	*	No. 12	¾	100
48667†	*	No. 12	1	100

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
40359	40475	¼	3⁄16	100
40360	40475-1	¼	¼	100
MP40360	MP40475-1	¼	¼	50
40361	40476	¼	5⁄16	100
MP40361	MP40476	¼	5⁄16	50
40362	40476-1	¼	3⁄8	100
MP40362	MP40476-1	¼	3⁄8	50
40363	40477	¼	7⁄16	100
40364	40477-1	¼	½	100
MP40364	MP40477-1	¼	½	50
40365	40478	¼	5⁄8	100
40366	40478-1	¼	¾	100
MP40366	MP40478-1	¼	¾	50
40367	*	¼	⅞	100
40368	40479	¼	1	100
MP40368	-	¼	1	50
40369	40479-1	¼	1¼	100
40370	*	¼	1½	100
40371	*	¼	1¾	50
40372	*	¼	2	50

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
40373	40480	5⁄16	¼	100
MP40373	-	5⁄16	¼	50
40374	40480-1	5⁄16	5⁄16	100
MP40374	MP40480-1	5⁄16	5⁄16	50
40375	40481	5⁄16	3⁄8	100

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
MP40375	MP40481	5⁄16	3⁄8	50
40376	40481-1	5⁄16	7⁄16	100
40377	40482	5⁄16	½	100
MP40377	MP40482	5⁄16	½	50
40378	40482-1	5⁄16	5⁄8	100
*	MP40482-1	5⁄16	5⁄8	50
40379	40483	5⁄16	¾	100
MP40379	MP40483	5⁄16	¾	50
40380	*	5⁄16	⅞	100
40381	40483-2	5⁄16	1	100
MP40381	MP40483-2	5⁄16	1	50
40382	40483-3	5⁄16	1¼	100
40383	40483-4	5⁄16	1½	100
40384	*	5⁄16	1¾	50
40385	*	5⁄16	2	50

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
40386	40485	3⁄8	¼	100
40387	40485-1	3⁄8	5⁄16	100
40388	40486	3⁄8	3⁄8	100
MP40388	MP40486	3⁄8	3⁄8	25
40389	40486-1	3⁄8	7⁄16	100
40390	40487	3⁄8	½	100
MP40390	MP40487	3⁄8	½	25
40391	40487-1	3⁄8	5⁄8	100
40392	40488	3⁄8	¾	100
MP40392	MP40488	3⁄8	¾	25
40393	*	3⁄8	⅞	100
40394	40488-1	3⁄8	1	100
MP40394	MP40488-1	3⁄8	1	25
40395	40489	3⁄8	1¼	100
40396	40489-1	3⁄8	1½	100
40397	*	3⁄8	1¾	50
40398	*	3⁄8	2	50
40399	*	3⁄8	2½	50
40400	*	3⁄8	3	25

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
40401	40490	7⁄16	3⁄8	100
40402	40490-1	7⁄16	7⁄16	100
40403	40490-2	7⁄16	½	100
MP40403	-	7⁄16	½	25
40404	*	7⁄16	5⁄8	100
40405	*	7⁄16	¾	100
40406	*	7⁄16	⅞	50
40407	*	7⁄16	1	50
*	KP86416	7⁄16	1	25
40408	*	7⁄16	1¼	50
40409	*	7⁄16	1½	50

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
40411	*	½	3⁄8	100
40413	40491	½	½	100
MP40413	-	½	½	10
40414	40491-1	½	5⁄8	100
40415	40492	½	¾	100
MP40415	-	½	¾	10
40416-1	*	½	⅞	50
40417	40492-1	½	1	50
MP40417	*	½	1	10
*	MP40492-1	½	1	25
40418	40493	½	1¼	50
40419	40493-1	½	1½	50
40420	*	½	1¾	25

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
40421	*	½	2	25
40422-1	*	½	2½	25
40423	*	½	3	25

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
40424	*	5⁄8	½	100
40425	40494	5⁄8	5⁄8	50
40426	*	5⁄8	¾	50
40428	40494-1	5⁄8	1	50
40429	*	5⁄8	1¼	25
40430	*	5⁄8	1½	25
40431	*	5⁄8	1¾	25
40432	*	5⁄8	2	25
40433	*	5⁄8	2½	10
40434-1	*	5⁄8	3	10

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
40435	*	¾	5⁄8	50
40436	40495	¾	¾	50
40437	40495-1	¾	1	50
40438	40496	¾	1¼	25
40439	40496-1	¾	1½	25
40440	*	¾	1¾	10
40441	40497	¾	2	10
40442	40497-1	¾	2½	10
40443	40497-2	¾	3	10
40444	*	¾	4	10

UNC Part No. TPI-9	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
40446	40498	⅞	⅞	10
40447	40498-1	⅞	1	10
40448	*	⅞	1½	10
40449	*	⅞	2	10

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
40452	40499	1	1	10
40453-1	*	1	1½	10
40454	*	1	2	10
40454-1	*	1	2½	10
40454-2	*	1	3	10

†Bowman semi-standard socket products are offered in lengths that are not normally stocked by the industry. Pricing will vary.

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Socket Set Screws Brass Tip Extension

Cup Point Type



- UNC (USS) or UNF (SAE)
- Meets ASTM F912 specifications
- Medium carbon alloy steel
- Through-hardened
- Non-plated

UNC Part No.	UNF Part No.	Dia. (in.)	Length (In.)	Unit
TPI-20	TPI-28			
476132	*	¼	¼	25
476136	*	¼	⅜	25
476138	*	¼	½	25
476142	*	¼	¾	25
*	¤476168	¼	1	25
476140	*	¼	1¼	10
TPI-18	TPI-24			
476178	*	5⁄16	¼	25
¤476180	*	5⁄16	5⁄16	25
476182	476204	5⁄16	⅜	25
476184	*	5⁄16	½	25
¤476188	*	5⁄16	¾	25
TPI-16	TPI-24			
476228	*	⅜	⅜	25
476230	*	⅜	½	25
476232	*	⅜	⅝	25
476234	*	⅜	¾	25
476236	*	⅜	1	25
TPI-32	TPI-36			
476060	*	No. 8	¼	25
TPI-24	TPI-32			
*	476108	No. 10	¼	25
*	476112	No. 10	⅜	25
*	476115	No. 10	½	25
TPI-11	TPI-18			
476150	*	⅝	1	10
TPI-13	TPI-20			
476270	*	½	½	25

Socket Set Screws

Internal Knurled Cup Point Type



- UNC (USS) or UNF (SAE)
- Meets ASTM F912 specifications
- Medium carbon alloy steel
- Through-hardened
- Phos finish
- Special internal knurl combined with Phos finish provides superior axial and torsional holding power
- Forged manufacturing process creates smooth, radiused corner socket that has a high resistance to cracking and "rounding-out" of the hex socket hole

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
40501	40503-3/16	No. 6	3⁄16	50
40502	*	No. 6	¼	50
C93007	*	No. 6	5⁄16	50
40502-1	40503-1	No. 6	⅜	50
40502-2	*	No. 6	½	50

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
40505	40509-3/16	No. 8	3⁄16	50
40506	40509-1/4	No. 8	¼	50
C93011	40509-5/16	No. 8	5⁄16	50
40506-2	*	No. 8	⅜	50
40507	*	No. 8	½	50
40508	*	No. 8	¾	50

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
40510	40515	No. 10	3⁄16	50
40511	40516	No. 10	¼	50
C93015	C93021	No. 10	5⁄16	50
40512	40517	No. 10	⅜	50
40513	40518	No. 10	½	50
*	C93024	No. 10	⅝	50
C93019	C93025	No. 10	¾	50

UNC (USS) Part No. TPI-20	UNF (SAE) Part No. TPI-28	Dia.	Length (In.)	Unit
40520	40525	¼	¼	50
40521	40526	¼	5⁄16	50
40522	40527	¼	⅜	50
40523	40528	¼	½	50
C93030	C93036	¼	⅝	50
40524	40529	¼	¾	50
40524-1	40529-1	¼	1	50
40524-11/4	*	¼	1¼	50

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
40529-3	C93044	5⁄16	¼	50
40530	40535	5⁄16	5⁄16	50
40531	40536	5⁄16	⅜	50
40532	40537	5⁄16	½	50
40532-1	40537-1	5⁄16	⅝	50
40533	40537-2	5⁄16	¾	50
40534	40539	5⁄16	1	50
40534-11/4	*	5⁄16	1¼	50

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
C93050	C93056	⅜	5⁄16	50
40540	40545	⅜	⅜	25
40541	40546	⅜	½	25
C93053	¤C93059	⅜	⅝	25
40542	40547	⅜	¾	25
40543	40548	⅜	1	25
40543-11/4	*	⅜	1¼	25
40543-11/2	*	⅜	1½	25
40543-2	*	⅜	2	25

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
40550	*	7⁄16	½	25
40551	*	7⁄16	¾	25
40552	*	7⁄16	1	25

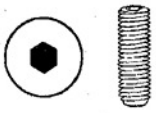
UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
40555	40560	½	½	25
C93063	*	½	⅝	25
40556	40561	½	¾	25
40557	40562	½	1	25
40557-11/4	*	½	1¼	25
40557-11/2	*	½	1½	25

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia.	Length (In.)	Unit
40566	*	⅝	¾	10

*Item not available

Socket Set Screws

Internal Knurled Cup Point Type



- UNC (USS) or UNF (SAE)
- Meets ASTM F912 specifications
- Medium carbon alloy steel
- Through-hardened
- Non-plated

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
¤48680†	*	No. 4	⅛	100
¤48681†	*	No. 4	3⁄16	100
¤48682†	*	No. 4	¼	100
¤48683†	*	No. 4	5⁄16	100
¤48684†	*	No. 4	⅜	100

UNC (USS) Part No. TPI-32	UNF (SAE) Part No. TPI-40	Dia.	Length (In.)	Unit
¤48685†	*	No. 6	⅛	100
¤48686†	*	No. 6	5⁄16	100
¤48687†	*	No. 6	⅜	100

Continued on next page

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Continued from previous page

UNC (USS) Part No. TPI-32	UNF (SAE) Part No. TPI-36	Dia.	Length (In.)	Unit
¤48690†	*	No. 8	1/8	100
¤48691†	*	No. 8	5/16	100
¤48692†	*	No. 8	5/8	100

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
¤48695†	¤48700†	No. 10	5/16	100
¤48696†	¤48701†	No. 10	5/8	100
¤48697†	¤48702†	No. 10	3/4	100
¤48698†	*	No. 10	7/8	100
¤48699†	¤48703†	No. 10	1	100

†Bowman semi-standard socket products are offered in lengths that are not normally stocked by the industry. Pricing will vary.

Socket Set Screws

Cone Point Type





- Meets ASTM F912 specifications
- Medium carbon alloy steel
- Through-hardened
- Non-Plated

UNC (USS) Part No. TPI-40	UNF (SAE) Part No. TPI-48	Dia. (In.)	Length (In.)	Unit
¤48120†	-	No. 4	1/8	100
¤48121†	-	No. 4	5/16	100

UNC (USS) Part No. TPI-32	UNF (SAE) Part No. TPI-40	Dia. (In.)	Length (In.)	Unit
¤48122†	-	No. 5	3/16	100
¤48123†	-	No. 5	1/4	100

UNC (USS) Part No. TPI-32	UNF (SAE) Part No. TPI-40	Dia. (In.)	Length (In.)	Unit
¤41200	-	No. 6	1/8	100
¤41201	-	No. 6	3/16	100
¤41202	-	No. 6	1/4	100
¤48124†	-	No. 6	3/8	100

UNC (USS) Part No. TPI-32	UNF (SAE) Part No. TPI-36	Dia. (In.)	Length (In.)	Unit
¤48125†	-	No. 8	3/16	100
¤41203	-	No. 8	1/4	100
¤48126†	-	No. 8	5/16	100
¤41204	-	No. 8	3/8	100
¤48127†	-	No. 8	1/2	100

UNC (USS) Part No. TPI-24	UNF (SAE) Part No. TPI-32	Dia. (In.)	Length (In.)	Unit
-	¤41207	No. 10	3/16	100
¤41205	¤41208	No. 10	1/4	100
¤48128†	-	No. 10	5/16	100
¤41206	-	No. 10	3/8	100
¤48129†	-	No. 10	1/2	100

UNC (USS) Part No. TPI-20	UNF (SAE) Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
¤41209	¤41214	1/4	1/4	100
¤48130†	-	1/4	5/16	100
¤41210	¤48132†	1/4	3/8	100
¤41211	-	1/4	1/2	100
¤48131†	-	1/4	5/8	100
¤41212	-	1/4	3/4	100
¤41213	-	1/4	1	100

UNC (USS) Part No. TPI-18	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
¤48133†	¤48137†	5/16	5/16	100
¤41215	¤48138†	5/16	3/8	100
¤41216	-	5/16	1/2	100
¤48134†	-	5/16	5/8	100
¤48135†	-	5/16	3/4	100
¤48136†	-	5/16	1	100

UNC (USS) Part No. TPI-16	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
¤41217	¤48142†	3/8	3/8	100
¤41218	¤48143†	3/8	1/2	100
¤48139†	-	3/8	5/8	100
¤48140†	-	3/8	3/4	100
¤48141†	-	3/8	1	100

UNC (USS) Part No. TPI-13	UNF (SAE) Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
¤48144†	-	1/2	1/2	100
¤48145†	-	1/2	5/8	100
¤48146†	-	1/2	3/4	100
¤48147†	-	1/2	1	100

Note: † Indicates Bowman semi-standard socket products are offered in lengths not normally stocked by the industry.

Socket Set Screws

Half Dog Point Type





- Meets ASTM F912 specifications
- Medium carbon alloy steel
- Through-hardened
- Non-Plated

UNC (USS) Part No. TPI-32	UNF (SAE) Part No. TPI-36	Dia. (In.)	Length (In.)	Unit
¤48150†	-	No. 8	3/16	100
41100	-	No. 8	1/4	100
¤48151†	-	No. 8	5/16	100
41101	-	No. 8	3/8	100
41102	-	No. 8	1/2	100

UNC (USS) Part No. TPI-24	UNF (SAE) Part No. TPI-32	Dia. (In.)	Length (In.)	Unit
¤48152†	41105	No. 10	3/16	100
41103	41106	No. 10	1/4	100
¤48153†	-	No. 10	5/16	100
41104	-	No. 10	3/8	100
¤48154†	-	No. 10	1/2	100

UNC (USS) Part No. TPI-20	UNF (SAE) Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
41107	41114	1/4	1/4	100
41108	-	1/4	5/16	100
41109	41115	1/4	3/8	100
41110	-	1/4	1/2	100
41111	-	1/4	5/8	100
41112	-	1/4	3/4	100
41113	-	1/4	1	100

UNC (USS) Part No. TPI-18	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
41116	-	5/16	5/16	100
41117	41121	5/16	3/8	100
41118	-	5/16	1/2	100
¤48155†	-	5/16	5/8	100
41119	-	5/16	3/4	100
41120	-	5/16	1	100

UNC (USS) Part No. TPI-16	UNF (SAE) Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
41122	¤48156†	3/8	3/8	100
41123	41128	3/8	1/2	100
41124	-	3/8	5/8	100
41125	-	3/8	3/4	100
41126	-	3/8	1	100
41127	-	3/8	1 1/4	100

UNC (USS) Part No. TPI-13	UNF (SAE) Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
41129	-	1/2	1/2	100
41130	-	1/2	5/8	100
41131	-	1/2	3/4	100
41132	-	1/2	1	100
41133	-	1/2	1 1/4	100

UNC (USS) Part No. TPI-11	UNF (SAE) Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
-	¤48158†	5/8	5/8	50
41134	-	5/8	1	50
¤48157†	-	5/8	1 1/4	50

†Indicates Bowman semi-standard socket products are offered in lengths not normally stocked by the industry.

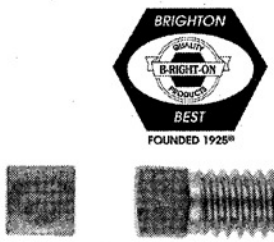
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Square Head Set Screws

Square Head Set Screws
Cup Point Type



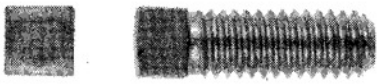
BOWMAN Unichrome PLATING™

- UNC (USS)
- Meets ANSI/ASME B18.6.2 specifications
- Carbon steel
- Case hardened

Part No.	Dia. (In.) - TPI	Length (In.)	Unit
32725	¼-20	½	25
32727	¼-20	¾	25
32728	¼-20	1	25
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
32733	5⁄16-18	½	25
32735	5⁄16-18	¾	25
32736	5⁄16-18	1	25
MP32736	5⁄16-18	1	10
32737	5⁄16-18	1¼	25
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
32743	⅜-16	½	25
MP32743	⅜-16	½	10
32744	⅜-16	⅝	25
MP32744	⅜-16	⅝	10
32745	⅜-16	¾	25
MP32745	⅜-16	¾	10
32746	⅜-16	1	25
MP32746	⅜-16	1	10
32747	⅜-16	1¼	25
32748	⅜-16	1½	25
32750	⅜-16	2	25
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
32754	7⁄16-14	¾	10
32755	7⁄16-14	1	10
32757	7⁄16-14	1½	10
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
32764	½-13	1	10
32765	½-13	1¼	10
32766	½-13	1½	10
32768	½-13	2	10
32770	½-13	2½	10
32772	½-13	3	10
32774	½-13	4	10

Square Head Set Screws
Cup Point Type





- UNC (USS)
- Meets ANSI/ASME B18.6.2 specifications
- Carbon steel
- Case hardened
- Non-plated

Part No.	Dia. (In.) - TPI	Length (In.)	Unit
63100	¼-20	⅜	100
63101	¼-20	½	100
63102	¼-20	⅝	100
63103	¼-20	¾	100
63105	¼-20	1	100
63106	¼-20	1¼	100
63107	¼-20	1½	100
63108	¼-20	1¾	100
63109	¼-20	2	100
63111	¼-20	2½	100
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63115	5⁄16-18	½	100
63116	5⁄16-18	⅝	100
63117	5⁄16-18	¾	100
63119	5⁄16-18	1	100
63120	5⁄16-18	1¼	100
63121	5⁄16-18	1½	100
63122	5⁄16-18	1¾	100
63123	5⁄16-18	2	100
63124	5⁄16-18	2¼	100
63125	5⁄16-18	2½	100
63126	5⁄16-18	3	100
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63130	⅜-16	½	100
63131	⅜-16	⅝	100
63132	⅜-16	¾	100
63134	⅜-16	1	100
63135	⅜-16	1¼	100
63136	⅜-16	1½	100
63137	⅜-16	1¾	100
63138	⅜-16	2	100
63140	⅜-16	2½	100
63141	⅜-16	3	100
63142	⅜-16	3½	50
63143	⅜-16	4	50
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63146	7⁄16-14	¾	100
63147	7⁄16-14	1	100
63148	7⁄16-14	1¼	100
63149	7⁄16-14	1½	100
63151	7⁄16-14	2	100
63153	7⁄16-14	2½	100
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63160	½-13	¾	100
63161	½-13	⅞	100
63162	½-13	1	100
63163	½-13	1¼	100
63164	½-13	1½	100
63165	½-13	1¾	100
63166	½-13	2	100
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63167	½-13	2¼	50
63168	½-13	2½	50
63169	½-13	2¾	50
63170	½-13	3	50
63171	½-13	3½	25
63172	½-13	4	25
63173	½-13	4½	25
63174	½-13	5	25
63175	½-13	6	25
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63178	⅝-11	1	50
63179	⅝-11	1¼	50
63180	⅝-11	1½	50
63181	⅝-11	1¾	50
63182	⅝-11	2	25
63184	⅝-11	2½	25
63186	⅝-11	3	25
63187	⅝-11	3½	25
63188	⅝-11	4	25
63189	⅝-11	4½	25
63190	⅝-11	5	25
63191	⅝-11	6	25
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63196	¾-10	1¼	25
63197	¾-10	1½	25
63198	¾-10	1¾	25
63199	¾-10	2	25
63201	¾-10	2½	25
63203	¾-10	3	25
63204	¾-10	3½	25
63205	¾-10	4	25
63206	¾-10	4½	25
63207	¾-10	5	25
63208	¾-10	6	10
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63212	⅞-9	3	10
63213	⅞-9	3½	10
63214	⅞-9	4	10
63215	⅞-9	4½	10
63216	⅞-9	5	10
63217	⅞-9	6	10
Part No.	**Dia. (In.) - TPI**	**Length (In.)**	**Unit**
63220	1-8	2	25
63221	1-8	2½	10
63222	1-8	3	10
63223	1-8	3½	10
63224	1-8	4	10
63225	1-8	4½	10
63226	1-8	5	10
63227	1-8	6	10

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Thumb Screw Knobs

Knurled Round

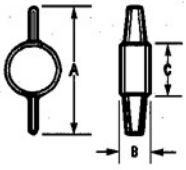


- Knurled knob type
- Red plastic
- Make thumb screw by attaching to a standard 1960 Series socket head cap screw

Part No.	Fits Screw Size	Unit
34315	No. 4	25
34316	No. 6	25
34317	No. 8	25
34318	No. 10	25
34319	¼	25
34320	5/16	25

Tee Knobs

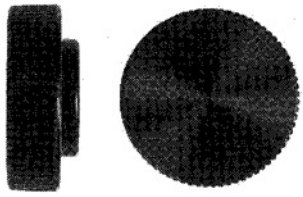




Part No.	Fits Screw Size	Unit
KP68320	No. 10	10
KP68321	¼	10
KP68322	5/16	10
KP68323	3/8	10

Metric Size Thumb Screw Knobs

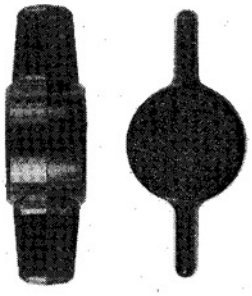
Knurled Round



Part No.	Fits Screw Size	Unit
KP68347	M3	10
KP68348	M4	10
KP68349	M5	10
KP68350	M6	10
KP68351	M8	10

Metric Size

Tee Knobs



Part No.	Fits Screw Size	Unit
KP68352	M5	10
KP68353	M6	10
KP68354	M8	10
KP68355	M10	10

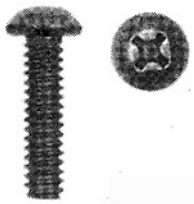
Hex Key Selection Chart

Screw Dia.	1960 Series Socket Head Cap Screw Hex Size	Socket Flat Countersunk Head Cap Screw Hex Size	Socket Button Head Cap Screw Hex Size	Socket Head Shoulder Screw Hex Size	Socket Set Screw Hex Size
No. 0	.050	.035	.035	—	.028
No. 1	1/16	.050	.050	—	.028
No. 2	5/64	.050	.050	—	.035
No. 3	5/64	1/16	1/16	—	.050
No. 4	3/32	1/16	1/16	—	.050
No. 5	3/32	5/64	5/64	—	1/16
No. 6	7/64	5/64	5/64	—	1/16
No. 8	9/64	3/32	3/32	—	5/64
No. 10	5/32	1/8	1/8	—	3/32
¼	3/16	5/32	5/32	1/8	1/8
5/16	¼	3/16	3/16	5/32	5/32
3/8	5/16	7/32	7/32	3/16	3/16
7/16	3/8	¼	¼	—	7/32
½	3/8	5/16	5/16	¼	¼
9/16	7/16	—	—	—	—
5/8	½	3/8	3/8	5/16	5/16
¾	5/8	½	—	3/8	3/8
7/8	¾	9/16	—	—	½
1	¾	5/8	—	½	9/16
1⅛	7/8	¾	—	—	9/16
1¼	7/8	7/8	—	5/8	5/8
1⅜	1	7/8	—	—	5/8
1½	1	1	—	7/8	¾

Round Head

Machine Screws

Phillips Round Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
C37109	No. 4-40	¼	100
38043	No. 4-40	3/8	50
38042	No. 4-40	½	50
38044	No. 4-40	1	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38000	No. 6-32	¼	50
38001	No. 6-32	3/8	50
38002	No. 6-32	½	50
38003	No. 6-32	¾	50
38004	No. 6-32	1	50
38004-11/2	No. 6-32	1½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38005	No. 8-32	¼	50
38006	No. 8-32	3/8	50
38007	No. 8-32	½	50
38008	No. 8-32	5/8	50
38009	No. 8-32	¾	50
38010	No. 8-32	1	50
38011	No. 8-32	1½	50
38040	No. 8-32	3	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38012-3/8	No. 10-24	3/8	50
38012	No. 10-24	½	50
38013	No. 10-24	5/8	50
38014	No. 10-24	¾	50
38015	No. 10-24	1	50
38016	No. 10-24	1½	50
38016-2	No. 10-24	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38017-1/4	No. 10-32	¼	50
38017	No. 10-32	3/8	50
38018	No. 10-32	½	50
38019	No. 10-32	5/8	50
38020	No. 10-32	¾	50
38021	No. 10-32	1	50
38022	No. 10-32	1½	50
38022-2	No. 10-32	2	50
38022-3	No. 10-32	3	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38023	No. 12-24	½	50
38024	No. 12-24	¾	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38025	¼-20	3/8	50
38026	¼-20	½	50
38027	¼-20	5/8	50
38028	¼-20	¾	50
38029	¼-20	1	50
38030	¼-20	1¼	50
38031	¼-20	1½	50
38031-13/4	¼-20	1¾	50
38032	¼-20	2	50
38032-21/2	¼-20	2½	50
C37148	¼-20	3	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38048-11/2	5/16-18	1½	100

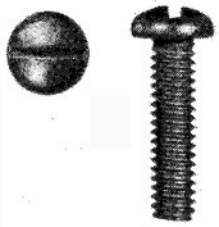
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Machine Screws

Stove Bolts
Slotted Head, Round or Phillips



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31120	No. 4-40	¼	100
C22734	No. 4-40	⅜	100
31120-1	No. 4-40	½	100
KP61365	No. 4-40	⅝	100
31121	No. 4-40	¾	100
31121-1	No. 4-40	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP84850	No. 5-40	⅝	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31122	No. 6-32	¼	100
31123	No. 6-32	⅜	100
31124	No. 6-32	½	100
31125	No. 6-32	⅝	100
31126	No. 6-32	¾	100
31127	No. 6-32	1	100
31127-1	No. 6-32	1¼	100
31127-2	No. 6-32	1½	100
KP84853	No. 6-32	1¾	100
31127-3	No. 6-32	2	100
C99498	No. 6-32	2½	100
31127-5	No. 6-32	3	50
31127-6	No. 6-32	4	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31128	No. 8-32	¼	100
31129	No. 8-32	⅜	100
31130	No. 8-32	½	100
31131	No. 8-32	⅝	100
31132	No. 8-32	¾	100
31133	No. 8-32	1	100
31133-1	No. 8-32	1¼	100
31133-2	No. 8-32	1½	50
KP84858	No. 8-32	1¾	50
31133-3	No. 8-32	2	50
31133-4	No. 8-32	2½	50
31133-5	No. 8-32	3	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31133-X	No. 10-24	¼	100
31134	No. 10-24	⅜	100
31135	No. 10-24	½	100
31135-1	No. 10-24	⅝	100
31136	No. 10-24	¾	100
C620592	No. 10-24	⅞	100
31137	No. 10-24	1	100
31138	No. 10-24	1¼	50
31139	No. 10-24	1½	50
31140	No. 10-24	1¾	50
31141	No. 10-24	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31142	No. 10-24	2½	50
31142-1	No. 10-24	3	50
31142-3	No. 10-24	4	50
C98633	No. 10-24	5	25
C98634	No. 10-24	6	25

UNF Part No.	Dia. - TPI	Length (In.)	Unit
31143	No. 10-32	¼	100
31143-1	No. 10-32	⅜	100
31144	No. 10-32	½	100
31144-1	No. 10-32	⅝	100
31145	No. 10-32	¾	100
31146	No. 10-32	1	100
31146-1	No. 10-32	1¼	100
31147	No. 10-32	1½	50
31148	No. 10-32	2	50
C93866	No. 10-32	2½	50
C87007	No. 10-32	3	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31149	No. 12-24	⅜	100
31150	No. 12-24	½	100
31151	No. 12-24	¾	100
31152	No. 12-24	⅞	100
31153	No. 12-24	1	100
31153-1	No. 12-24	1¼	100
31154	No. 12-24	1½	50
31154-2	No. 12-24	2	50
31154-3	No. 12-24	2½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34375	¼-20	⅜	100
34376	¼-20	½	100
KP71241	¼-20	⅝	100
34378	¼-20	¾	100
34380	¼-20	1	100
34382	¼-20	1¼	100
34384	¼-20	1½	100
34385	¼-20	1¾	100
34386	¼-20	2	100
34387	¼-20	2¼	100
34388	¼-20	2½	100
34389	¼-20	2¾	100
34390	¼-20	3	100
34392	¼-20	3½	100
34393	¼-20	4	100
34393-5	¼-20	5	50
34393-6	¼-20	6	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34395-1/2	5/16-18	½	100
34395-3/4	5/16-18	¾	100
34395-1	5/16-18	1	100
KP66719	5/16-18	1¼	50
34395-11/2	5/16-18	1½	100
34395-2	5/16-18	2	100
34395-21/2	5/16-18	2½	100
34395-3	5/16-18	3	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34395-4	5/16-18	4	100
C99501	5/16-18	5	25
C99502	5/16-18	6	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34396-3/4	3/8-16	¾	100
34396-1	3/8-16	1	100
34396-11/2	3/8-16	1½	100
34396-2	3/8-16	2	50
34396-21/2	3/8-16	2½	50
34396-3	3/8-16	3	50
34396-4	3/8-16	4	50
34396-6	3/8-16	6	50

Machine Screws
Slotted Round Head



- Case hardened
- Zinc chromate plated steel
- Square socket drive

UNC Part No.	Dia. - TPI	Length (In.)	Unit
*C68815	No. 4-40	¼	100
*50503	No. 4-40	⅜	100
*C68817	No. 4-40	½	100
*C68818	No. 4-40	⅝	100
*C68819	No. 4-40	¾	100
*C68820	No. 4-40	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
*50506	No. 6-32	¼	100
*50508	No. 6-32	⅜	100
*50509	No. 6-32	½	100
*C68822	No. 6-32	⅝	100
*50511	No. 6-32	¾	100
*50512	No. 6-32	1	100
*50513	No. 6-32	1¼	100
*50514	No. 6-32	1½	100
*C68825	No. 6-32	1¾	100
*50516	No. 6-32	2	100
*C68827	No. 6-32	2½	100
*C68828	No. 6-32	3	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
*50519	No. 8-32	¼	100
*50521	No. 8-32	⅜	100
*50522	No. 8-32	½	100
*50523	No. 8-32	⅝	100
*50524	No. 8-32	¾	100
*50525	No. 8-32	1	100
*50526	No. 8-32	1¼	100
*50527	No. 8-32	1½	100
*50528	No. 8-32	1¾	50
*50529	No. 8-32	2	50
*C68830	No. 8-32	2½	100
*C68831	No. 8-32	3	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
*C67578	No. 10-24	¼	100
*50534	No. 10-24	⅜	100
*50535	No. 10-24	½	50
*C67580	No. 10-24	⅝	100

Continued on next page

*NOTE: No. 10-24 = 3/16"

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UNC Part No.	Dia. - TPI	Length (In.)	Unit
✦50537	No. 10-24	¾	50
✦50538	No. 10-24	1	50
✦50539	No. 10-24	1¼	100
✦50540	No. 10-24	1½	50
✦C68833	No. 10-24	1¾	100
✦50542	No. 10-24	2	50
✦50543	No. 10-24	2½	50
✦50544	No. 10-24	3	50
✦C68835	No. 10-24	4	100

UNF Part No.	Dia. - TPI	Length (In.)	Unit
✦50546	No. 10-32	¼	100
✦50548	No. 10-32	⅜	100
✦50549	No. 10-32	½	100
✦50550	No. 10-32	⅝	100
✦50551	No. 10-32	¾	100
✦50552	No. 10-32	1	100
✦50553	No. 10-32	1¼	100
✦50554	No. 10-32	1½	100
✦C68837	No. 10-32	1¾	100
✦50556	No. 10-32	2	50
✦C68838	No. 10-32	2½	100
✦C68839	No. 10-32	3	100

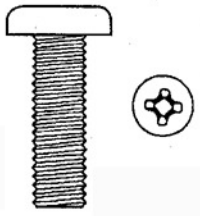
UNC Part No.	Dia. - TPI	Length (In.)	Unit
✦50559	No. 12-24	½	100
✦50561	No. 12-24	¾	100
✦50562	No. 12-24	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
✦50566	No. ¼-20	⅜	100
✦50567	No. ¼-20	½	100
✦50568	No. ¼-20	⅝	100
✦50569	No. ¼-20	¾	100
✦50570	No. ¼-20	1	100
✦50571	No. ¼-20	1¼	50
✦50572	No. ¼-20	1½	50
✦50573	No. ¼-20	1¾	50
✦50574	No. ¼-20	2	50
✦50575	No. ¼-20	2½	50
✦50576	No. ¼-20	3	50
✦C68845	No. ¼-20	4	50

✦Part numbers available in Canada only.

Pan Head

Machine Screws
Phillips Pan Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35793	No. 4-40	¼	100
35794	No. 4-40	5⁄16	100
35795	No. 4-40	⅜	100
35796	No. 4-40	½	100
C37154	No. 4-40	⅝	100
C37155	No. 4-40	¾	100
C37156	No. 4-40	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35801	No. 6-32	¼	50
C37159	No. 6-32	5⁄16	100
35801-1	No. 6-32	⅜	50
35802	No. 6-32	½	50
35802-1	No. 6-32	⅝	50
35803	No. 6-32	¾	50
35804	No. 6-32	1	50
35804-2	No. 6-32	1¼	50
35804-1	No. 6-32	1½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35805	No. 8-32	¼	50
C37168	No. 8-32	5⁄16	100
35805-1	No. 8-32	⅜	50
35806	No. 8-32	½	50
35806-1	No. 8-32	⅝	50
35807	No. 8-32	¾	50
35808	No. 8-32	1	50
35808-1	No. 8-32	1¼	50
35809	No. 8-32	1½	50
35809-1	No. 8-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP75314	No. 10-24	¼	100
35810-1	No. 10-24	⅜	50
35810	No. 10-24	½	50
35810-2	No. 10-24	⅝	50
35811	No. 10-24	¾	50
KP85073	No. 10-24	⅞	100
35812	No. 10-24	1	50
35813	No. 10-24	1¼	50
35813-1	No. 10-24	1½	50
KP85075	No. 10-24	1¾	50
35814	No. 10-24	2	50

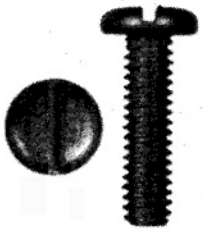
UNF Part No.	Dia. - TPI	Length (In.)	Unit
35816	No. 10-32	¼	50
35816-1	No. 10-32	⅜	50
35817	No. 10-32	½	50
35817-1	No. 10-32	⅝	50
35818	No. 10-32	¾	50
KP85078	No. 10-32	⅞	100
35819	No. 10-32	1	50
35819-1	No. 10-32	1¼	50
35820	No. 10-32	1½	50
KP85079	No. 10-32	1¾	50
35821	No. 10-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP75326	12-24	½	100
KP75327	12-24	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35824	¼-20	⅜	50
35825	¼-20	½	50
35825-1	¼-20	⅝	50
35826	¼-20	¾	50
35827	¼-20	1	50
35827-1	¼-20	1¼	50
35828	¼-20	1½	50
C37200	¼-20	1¾	50
35830	¼-20	2	50
C37202	¼-20	2½	25
C37203	¼-20	3	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP75334	5⁄16-18	¾	50

Machine Screws
Slotted Pan Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP77940	4-40	¼	100
KP77942	4-40	½	100
KP77944	4-40	¾	100
KP77945	4-40	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35870	No. 6-32	¼	100
KP84916	No. 6-32	⅜	100
35872	No. 6-32	½	100
35873	No. 6-32	¾	100
KP78001	No. 6-32	1	100
KP78002	No. 6-32	1½	100
KP78003	No. 6-32	2	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35875	No. 8-32	¼	100
KP84920	No. 8-32	⅜	100
35877	No. 8-32	½	100
35878	No. 8-32	¾	100
35879	No. 8-32	1	100
KP78004	No. 8-32	1½	50
KP78005	No. 8-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35880	No. 10-24	½	100
35881	No. 10-24	¾	100
35882	No. 10-24	1	100
35883	No. 10-24	1¼	100
35884	No. 10-24	1½	50

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Machine Screws

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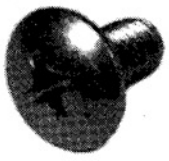
UNF Part No.	Dia. - TPI	Length (In.)	Unit
35890	No. 10-32	¼	100
KP84933	No. 10-32	⅜	100
35891	No. 10-32	½	100
35892	No. 10-32	¾	100
35893	No. 10-32	1	100
35895	No. 10-32	1½	50
KP78007	No. 10-32	2	50
KP84937	No. 10-32	2½	50
KP84938	No. 10-32	3	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35898	No. 12-24	½	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35886	¼-20	½	100
35887	¼-20	¾	100
35888	¼-20	1	100
KP78008	¼-20	1½	50
KP78009	¼-20	2	50

Truss Head

Machine Screws
Phillips Truss Head



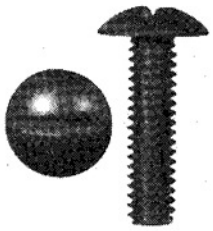
- Zinc Plated

Part No.	Dia. - TPI	Length (In.)	Unit
KP84959	No. 10-24	½	100
KP84960	No. 10-24	¾	100

Part No.	Dia. - TPI	Length (In.)	Unit
KP84964	No. 10-32	½	100
KP84966	No. 10-32	¾	100

Part No.	Dia. - TPI	Length (In.)	Unit
KP84968	¼-20	½	100
KP84969	¼-20	¾	100
KP84970	¼-20	1	100
KP84972	¼-20	1½	50

Machine Screws
Slotted Truss Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
C620900	No. 6-32	¼	100
34939	No. 6-32	½	50
¤C84995	No. 6-32	¾	100
¤C84996	No. 6-32	1	100
C84998	No. 6-32	1½	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤34946	No. 8-32	½	50
¤C85000	No. 8-32	¾	100
¤34948	No. 8-32	1	50
¤C85002	No. 8-32	1¼	100
C85003	No. 8-32	1½	100

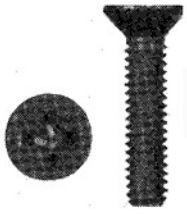
UNC Part No.	Dia. - TPI	Length (In.)	Unit
34950	No. 10-24	⅜	100
34951	No. 10-24	½	100
¤34951-1	No. 10-24	⅝	100
34952	No. 10-24	¾	100
34953	No. 10-24	1	100
¤34954	No. 10-24	1¼	100
¤C80547	No. 10-24	1½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34956	¼-20	½	100
34956-1	¼-20	⅝	100
34957	¼-20	¾	100
34958	¼-20	1	100
¤34959	¼-20	1¼	100
34960	¼-20	1½	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤34961	5⁄16-18	½	100
34962	5⁄16-18	¾	100
C80555	5⁄16-18	1	100
C80556	5⁄16-18	1¼	50

Flat Head

Machine Screws
Phillips Flat Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP76022	No. 4-40	¼	100
37821	No. 4-40	½	100
37822	No. 4-40	¾	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
37832	No. 6-32	¼	50
37833	No. 6-32	⅜	50
37834	No. 6-32	½	50
KP85566	No. 6-32	⅝	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
37836	No. 6-32	¾	50
37837	No. 6-32	1	50
KP85568	No. 6-32	1¼	100
37838	No. 6-32	1½	50
37839	No. 6-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
37841	No. 8-32	¼	50
37842	No. 8-32	⅜	50
37843	No. 8-32	½	50
KP76035	No. 8-32	⅝	100
37845	No. 8-32	¾	50
KP85570	No. 8-32	⅞	100
37846	No. 8-32	1	50
37847	No. 8-32	1¼	50
C26153	No. 8-32	1½	100
37840	No. 8-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP85571	No. 10-24	⅜	100
37852	No. 10-24	½	50
37853	No. 10-24	¾	50
37854	No. 10-24	1	50
37855	No. 10-24	1¼	50
37857	No. 10-24	1½	50
37859	No. 10-24	2	50
37860	No. 10-24	3	50

UNF Part No.	Dia. - TPI	Length (In.)	Unit
37862	No. 10-32	⅜	50
37863	No. 10-32	½	50
37864	No. 10-32	⅝	50
37865	No. 10-32	¾	50
37866	No. 10-32	1	50
C26164	No. 10-32	1¼	100
C26165	No. 10-32	1½	100
C26166	No. 10-32	2	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
37873	No. 12-24	½	50
37874	No. 12-24	¾	50
37875	No. 12-24	1	50
37877	No. 12-24	1¾	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
37880	¼-20	⅜	50
37881	¼-20	½	50
C5491	¼-20	⅝	100
37882	¼-20	¾	50
37883	¼-20	1	50
37884	¼-20	1¼	50
37885	¼-20	1½	50
37883-13/4	¼-20	1¾	50
37887	¼-20	2	50
37887-21/2	¼-20	2½	50
37888	¼-20	3	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP76063	5⁄16-18	¾	50
KP76064	5⁄16-18	1	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
37903	⅜-16	1½	50

GRAYSON INDUSTRIES, INC.

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Machine Screws
Slotted Flat Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31069-5	No. 4-40	¼	50
31069-6	No. 4-40	½	50
31069-7	No. 4-40	¾	50
31069-8	No. 4-40	1	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤31066	No. 5-40	¼	50
¤31067	No. 5-40	⅜	50
¤31068	No. 5-40	½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31070	No. 6-32	¼	50
31070-1	No. 6-32	⅜	50
31071	No. 6-32	½	50
31071-1	No. 6-32	⅝	50
31072	No. 6-32	¾	50
31073	No. 6-32	1	50
31073-1	No. 6-32	1¼	50
31073-2	No. 6-32	1½	50
31073-3	No. 6-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31075	No. 8-32	¼	50
31075-1	No. 8-32	⅜	50
31076	No. 8-32	½	50
31076-1	No. 8-32	⅝	50
31077	No. 8-32	¾	50
31078	No. 8-32	1	50
31078-1	No. 8-32	1¼	50
31078-2	No. 8-32	1½	50
31078-3	No. 8-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31080	No. 10-24	¼	50
31081	No. 10-24	½	50
31082	No. 10-24	¾	50
31083	No. 10-24	1	50
31083-1	No. 10-24	1¼	50
31084	No. 10-24	1½	50
31084-X	No. 10-24	1¾	50
31084-1	No. 10-24	2	50
31084-2	No. 10-24	2½	50
31084-3	No. 10-24	3	50

UNF Part No.	Dia. - TPI	Length (In.)	Unit
31085	No. 10-32	¼	50
31085-1	No. 10-32	⅜	50
31086	No. 10-32	½	50
31086-1	No. 10-32	⅝	50
31087	No. 10-32	¾	50
31088	No. 10-32	1	50

UNF Part No.	Dia. - TPI	Length (In.)	Unit
31088-1	No. 10-32	1¼	50
31089	No. 10-32	1½	50
31089-1	No. 10-32	2	50
31089-2	No. 10-32	3	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
31089-X	No. 12-24	⅜	50
31090	No. 12-24	½	50
31091	No. 12-24	¾	50
31092	No. 12-24	1	50
31092-1	No. 12-24	1¼	50
31093	No. 12-24	1½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34405-1/2	¼-20	½	100
MP34405-1/2	¼-20	½	50
KP71243	¼-20	⅝	100
34405-3/4	¼-20	¾	100
MP34405-3/4	¼-20	¾	50
34405-1	¼-20	1	100
MP34405-1	¼-20	1	50
34405-11/4	¼-20	1¼	100
34405-11/2	¼-20	1½	100
34405-13/4	¼-20	1¾	100
34405-2	¼-20	2	100
34405-21/4	¼-20	2¼	100
34405-21/2	¼-20	2½	100
34405-3	¼-20	3	100
34405-31/2	¼-20	3½	100
34405-4	¼-20	4	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34410-1/2	5⁄16-18	½	100
34410-3/4	5⁄16-18	¾	100
34410-1	5⁄16-18	1	100
34410-11/4	5⁄16-18	1¼	100
34410-11/2	5⁄16-18	1½	100
34410-2	5⁄16-18	2	100
34410-3	5⁄16-18	3	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
34415-3/4	⅜-16	¾	50
34415-1	⅜-16	1	50
34415-11/4	⅜-16	1¼	100
34415-11/2	⅜-16	1½	50
34415-2	⅜-16	2	50
34415-21/2	⅜-16	2½	100
34415-3	⅜-16	3	50
34415-4	⅜-16	4	50
34415-6	⅜-16	6	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
35845	½-13	1	25
35845-1	½-13	1¼	25
35846	½-13	1½	25
35848	½-13	2	25

Machine Screws
Flat Head Square Drive



- Case hardened
- Zinc chromate plated steel
- Square socket drive

UNC Part No.	Dia. - TPI	Length (In.)	Unit
✦50606	No. 6-32	¼	100
✦50608	No. 6-32	⅜	100
✦50609	No. 6-32	½	100
✦C68783	No. 6-32	⅝	100
✦50611	No. 6-32	¾	100
✦50612	No. 6-32	1	100
✦50613	No. 6-32	1¼	100
✦50614	No. 6-32	1½	100
✦C68786	No. 6-32	1¾	100
✦50616	No. 6-32	2	100
✦C68788	No. 6-32	2½	100
✦C68789	No. 6-32	3	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
✦C67607	No. 8-32	⅜	100
✦50622	No. 8-32	½	100
✦C67609	No. 8-32	⅝	100
✦50624	No. 8-32	¾	100
✦50625	No. 8-32	1	100
✦50626	No. 8-32	1¼	100
✦50627	No. 8-32	1½	100
✦C68791	No. 8-32	1¾	100
✦C68792	No. 8-32	2	100
✦C68793	No. 8-32	2½	100
✦C68794	No. 8-32	3	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
✦C68796	No. 10-24	⅜	100
✦50635	No. 10-24	½	100
✦C68797	No. 10-24	⅝	100
✦50637	No. 10-24	¾	100
✦50638	No. 10-24	1	100
✦50639	No. 10-24	1¼	100
✦50640	No. 10-24	1½	100
✦C68798	No. 10-24	1¾	50
✦50642	No. 10-24	2	50
✦C68799	No. 10-24	2½	100
✦C68800	No. 10-24	3	100

UNF Part No.	Dia. - TPI	Length (In.)	Unit
✦C67620	No. 10-32	⅜	100
✦50649	No. 10-32	½	100
✦C67622	No. 10-32	⅝	100
✦C67623	No. 10-32	¾	100
✦50652	No. 10-32	1	100
✦C68803	No. 10-32	1¼	100
✦C68804	No. 10-32	1½	100
✦C68805	No. 10-32	1¾	100

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Machine Screws

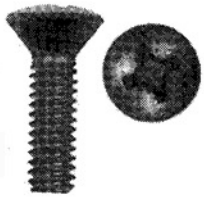
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UNF Part No.	Dia. - TPI	Length (In.)	Unit
✦C68806	No. 10-32	2	100
✦C68807	No. 10-32	2½	100
✦C68808	No. 10-32	3	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
✦50667	No. ¼-20	½	100
✦C68811	No. ¼-20	⅝	100
✦50669	No. ¼-20	¾	100
✦50670	No. ¼-20	1	100
✦50671	No. ¼-20	1¼	100
✦50672	No. ¼-20	1½	100
✦C68812	No. ¼-20	1¾	100
✦50674	No. ¼-20	2	100
✦50675	No. ¼-20	2½	100
✦50676	No. ¼-20	3	100

✦Part numbers available in Canada only.

Oval Head

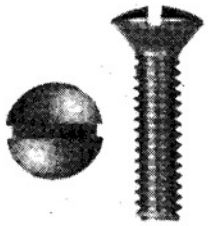
Machine Screws
Phillips Oval Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
38050	No. 6-32	¼	50
38051	No. 6-32	⅜	50
38052	No. 6-32	½	50
38053	No. 6-32	⅝	50
38054	No. 6-32	¾	50
38055	No. 6-32	1	50
38056	No. 6-32	1¼	50
38057	No. 6-32	1½	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
38058	No. 8-32	⅜	50
38059	No. 8-32	½	50
38060	No. 8-32	⅝	50
38061	No. 8-32	¾	50
38062	No. 8-32	1	50
38063	No. 8-32	1¼	50
38064	No. 8-32	1½	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
38065	No. 10-24	⅜	50
38066	No. 10-24	½	50
38067	No. 10-24	¾	50
38068	No. 10-24	1	50
38069	No. 10-24	1¼	50
38070	No. 10-24	1½	50
UNF Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
38071	No. 10-32	⅜	50
38072	No. 10-32	½	50
38073	No. 10-32	⅝	50
38074	No. 10-32	¾	50
38075	No. 10-32	1	50
38076	No. 10-32	1¼	50
38077	No. 10-32	1½	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
38078	No. 12-24	½	50
38079	No. 12-24	¾	50
38080	No. 12-24	1	50
38081	No. 12-24	1½	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
38082	¼-20	½	50
38083	¼-20	¾	50
38084	¼-20	1	50
38085	¼-20	1¼	50
38086	¼-20	1½	50

Machine Screws
Slotted Oval Head



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤31024	No. 6-32	½	100
¤31025	No. 6-32	⅝	100
¤31026	No. 6-32	¾	100
¤31027	No. 6-32	1	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
¤31030	No. 8-32	½	100
¤31031	No. 8-32	⅝	50
¤31032	No. 8-32	¾	50
¤31033	No. 8-32	1	50
UNF Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
¤31044	No. 10-32	½	100
¤31045	No. 10-32	⅝	50
¤31046	No. 10-32	¾	50
¤31047	No. 10-32	1	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
¤31051	No. 12-24	¾	50
¤31052	No. 12-24	1	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
¤31056	¼-20	¾	50
¤31057	¼-20	1	50
¤31059	¼-20	1½	50

Hex Head

Machine Screws
Hex Head



- Zinc plating

UNC Part No.	Dia. - TPI	Length (In.)	Unit
KP85117	No. 6-32	½	100
KP85118	No. 6-32	¾	100
KP85119	No. 6-32	1	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
KP88744	No. 8-32	⅜	100
KP86180	No. 8-32	½	100
KP85122	No. 8-32	¾	100
KP85123	No. 8-32	1	100
KP85125	No. 8-32	1½	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
KP85126	No. 10-24	½	100
KP85127	No. 10-24	¾	100
KP85128	No. 10-24	1	100
KP85129	No. 10-24	1¼	50
KP85130	No. 10-24	1½	50
UNF Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
KP85131	No. 10-32	½	100
KP85132	No. 10-32	¾	100
KP85133	No. 10-32	1	100
KP85134	No. 10-32	1¼	50
KP85135	No. 10-32	1½	50
KP88770	No. 10-32	2	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
KP88771	¼-20	½	100
KP88773	¼-20	¾	100
KP88774	¼-20	1	100

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Thumb Screws

Thumb Screws
Cold Forged with Shoulder



- UNC (USS) or UNF (SAE)
- Steel
- Non-plated
- Tighten and loosen with finger pressure
- Use where frequent disassembly is required
- Length is measured from under the head

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Approx. Head Width (In.)	Unit
34420-1/2	*	No. 8	1/2	3/8	25
34420-3/4	*	No. 8	3/4	3/8	25
34420-1	*	No. 8	1	3/8	25

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Approx. Head Width (In.)	Unit
34421-1/2	34422-1/2	No. 10	1/2	1/2	25
34421-3/4	34422-3/4	No. 10	3/4	1/2	25
34421-1	34422-1	No. 10	1	1/2	25

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Approx. Head Width (In.)	Unit
34423-1/2	*	1/4	1/2	35/64	25
34423-3/4	*	1/4	3/4	35/64	25
34423-1	*	1/4	1	35/64	25
34423-11/4	*	1/4	1 1/4	35/64	25
34423-11/2	*	1/4	1 1/2	35/64	25
34423-2	*	1/4	2	35/64	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Approx. Head Width (In.)	Unit
34424-1/2	*	5/16	1/2	45/64	25
34424-3/4	*	5/16	3/4	45/64	25
34424-1	*	5/16	1	45/64	25
34424-11/4	*	5/16	1 1/4	45/64	25
34424-11/2	*	5/16	1 1/2	45/64	25
34424-2	*	5/16	2	45/64	25

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Approx. Head Width (In.)	Unit
34425-3/4	*	3/8	3/4	53/64	25
34425-1	*	3/8	1	53/64	25
34425-11/2	*	3/8	1 1/2	53/64	25
34425-2	*	3/8	2	53/64	25

Thumb Screws
Cold Forged Without Shoulder



- UNC (USS) or UNF (SAE)
- Steel
- Non-plated
- Tighten and loosen with finger pressure
- Use where frequent disassembly is required
- Length is measured from under the head

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Approx. Head Width (In.)	Unit
*	34441-1/2	No. 10	1/2	15/32	25
KP88784	*	No. 10	1/2	15/32	100
34440-1	34441-1	No. 10	1	15/32	25

UNC Part No. TPI-20	UNC Part No. TPI-28	Dia. (In.)	Length (In.)	Approx. Head Width (In.)	Unit
34442-1/2	*	1/4	1/2	3/4	25
34442-3/4	*	1/4	3/4	3/4	25
34442-1	*	1/4	1	3/4	25
34442-11/4	*	1/4	1 1/4	3/4	
34442-11/2	*	1/4	1 1/2	3/4	
34442-2	*	1/4	2	3/4	25
34442-3	*	1/4	3	3/4	25

UNC Part No. TPI-18	UNC Part No. TPI-24	Dia. (In.)	Length (In.)	Approx. Head Width (In.)	Unit
34443-3/4	*	5/16	3/4	15/16	25
34443-1	*	5/16	1	15/16	25
KP88806	*	5/16	1 1/2	15/16	50
34443-2	*	5/16	2	15/16	25

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Approx. Head Width (In.)	Unit
34444-3/4	*	3/8	3/4	1 1/16	25
34444-1	*	3/8	1	1 1/16	25
KP88813	*	3/8	1 1/2	15/16	25
KP88814	*	3/8	2	15/16	10
KP88816	*	3/8	3	15/16	5

Torx Button Head

Torx Button Head Machine Screw
Zinc Plated

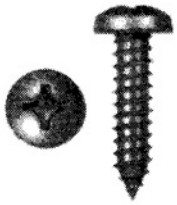


- Use in trailer applications
- Zinc plated
- Torx drive

Part No.	Dia. TPI	Length (In.)	Torx Size	Unit
290374	3/8-16	1	T40	50
290373	3/8-16	1 1/4	T40	50
34259	3/8-16	1 1/2	T45	50

Pan Head

Sheet Metal Screws
Phillips Pan Head



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
32058-1/4	No. 4	1/4	50
32058-3/8	No. 4	3/8	50
32058-1/2	No. 4	1/2	50
32058-5/8	No. 4	5/8	50
32058-3/4	No. 4	3/4	50
32058-1	No. 4	1	50

Part No.	Dia.	Length (In.)	Unit
32060	No. 6	1/4	50
32061	No. 6	3/8	50
32062	No. 6	1/2	50
32063	No. 6	5/8	50
32064	No. 6	3/4	50
KP75202	No. 6	7/8	100
32065	No. 6	1	50
32066	No. 6	1 1/4	50
32067	No. 6	1 1/2	50
32068	No. 6	2	50

Part No.	Dia.	Length (In.)	Unit
32072	No. 7	1/2	50
32073	No. 7	5/8	50
32074	No. 7	3/4	100
32076	No. 7	1	50

Part No.	Dia.	Length (In.)	Unit
C5331	No. 8	1/4	100
32081	No. 8	3/8	50
32082	No. 8	1/2	100
MP32082	No. 8	1/2	50
32083	No. 8	5/8	50

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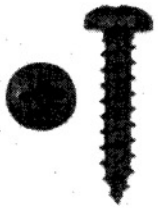
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Sheet Metal Screws

Continued from previous page

Part No.	Dia.	Length (In.)	Unit
32084	No. 8	¾	50
32085	No. 8	⅞	50
32086	No. 8	1	50
32087	No. 8	1¼	50
32088	No. 8	1½	50
32089	No. 8	1¾	50
32090	No. 8	2	50
32090-21/2	No. 8	2½	50
32090-3	No. 8	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
32091	No. 10	⅜	50
32092	No. 10	½	50
32093	No. 10	⅝	50
32094	No. 10	¾	50
32095	No. 10	⅞	50
32096	No. 10	1	50
32097	No. 10	1¼	50
32098	No. 10	1½	50
32098-13/4	No. 10	1¾	50
32099	No. 10	2	50
32101	No. 10	2½	50
32101-3	No. 10	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
32102	No. 12	½	50
32103	No. 12	⅝	50
32104	No. 12	¾	50
32105	No. 12	⅞	50
32106	No. 12	1	25
32107	No. 12	1¼	25
32108	No. 12	1½	25
32110-13/4	No. 12	1¾	25
32110-2	No. 12	2	25
32110-21/2	No. 12	2½	25
32110-3	No. 12	3	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
32112	¼	½	50
32113	¼	⅝	50
32114	¼		100
32115	¼	⅞	25
32116	¼	1	25
32117	¼	1¼	25
32118	¼	1½	25
32111-13/4	¼	1¾	25
32119	¼	2	25
32111-21/2	¼	2½	25
32111-3	¼	3	25

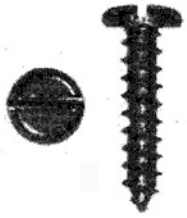
Sheet Metal Screws
Phillips Pan Head



- Case hardened steel
- Black oxide finish

Part No.	Dia.	Length (In.)	Unit
38327	No. 6	⅜	50
38328	No. 6	½	50
C23217	No. 6	⅝	100
38330	No. 6	¾	50
38331	No. 6	1	50
C23220	No. 8	⅜	100
38332	No. 8	½	50
38333	No. 8	⅝	50
38334	No. 8	¾	50
38335	No. 8	1	50
38336-1	No. 8	1¼	50
38336-2	No. 8	1½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
38338	No. 10	½	50
38338-1	No. 10	⅝	50
38339	No. 10	¾	50
38340	No. 10	1	50
38340-1	No. 10	1¼	50
38340-2	No. 10	1½	50
38340-3	No. 10	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
38342	No. 12	½	50
38342-1	No. 12	⅝	50
38342-2	No. 12	¾	50
38342-3	No. 12	1	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
C23242	¼	½	25
38344-1	¼	¾	50
C23245	¼	1	25
C23246	¼	1¼	25

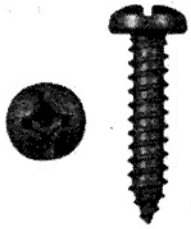
Sheet Metal Screws
Slotted Pan Head



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
31700	No. 4	¼	100
31701	No. 4	⅜	100
31702	No. 4	½	100
31703	No. 4	⅝	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31710	No. 6	¼	100
31711	No. 6	⅜	100
31712	No. 6	½	100
31713	No. 6	⅝	100
31714	No. 6	¾	100
31716	No. 6	1	100
31717	No. 6	1¼	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31722	No. 7	½	100
31724	No. 7	¾	100
31726	No. 7	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31730	No. 8	¼	100
31731	No. 8	⅜	100
31732	No. 8	½	100
31733	No. 8	⅝	100
31734	No. 8	¾	100
31735	No. 8	⅞	100
31736	No. 8	1	100
31737	No. 8	1¼	100
31738	No. 8	1½	100
¤31738-1	No. 8	1¾	100
31739	No. 8	2	100
31740	No. 8	2½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31741	No. 10	⅜	100
31742	No. 10	½	100
31743	No. 10	⅝	100
31744	No. 10	¾	100
31745	No. 10	⅞	50
31746	No. 10	1	50
31747	No. 10	1¼	50
31748	No. 10	1½	50
31749	No. 10	1¾	50
31750	No. 10	2	50
31750-1	No. 10	2½	50
¤31751	No. 10	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
31752	No. 12	½	100
31753	No. 12	⅝	100
31754	No. 12	¾	50
31755	No. 12	⅞	50
31756	No. 12	1	50
31757	No. 12	1¼	50
31758	No. 12	1½	50
¤31759	No. 12	1¾	50
31760	No. 12	2	50
¤31760-1	No. 12	2½	50
¤31761	No. 12	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
31762	¼	½	50
31763	¼	⅝	50
31764	¼	¾	50
31765	¼	⅞	50
31766	¼	1	50
31767	¼	1¼	50
31768	¼	1½	50
¤31768-1	¼	1¾	50
31769	¼	2	50
¤31770	¼	2½	50
31771	¼	3	50

Sheet Metal Screws
Phillips & Slotted Universal Pan Head



- Case hardened steel
- Zinc plated

Continued on next page

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Continued from previous page

Part No.	Dia.	Length (In.)	Unit
38706	No. 6	⅜	50
38707	No. 6	½	50
38709	No. 6	¾	50
38711	No. 6	1	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
38718	No. 8	⅜	50
38719	No. 8	½	50
38721	No. 8	¾	50
38723	No. 8	1	50
38724	No. 8	1¼	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
38727	No. 10	½	50
38729	No. 10	¾	50
38731	No. 10	1	50
38732	No. 10	1¼	50
38733	No. 10	1½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
38736	No. 12	½	50
38738	No. 12	¾	50
38740	No. 12	1	50
38741	No. 12	1¼	50
38742	No. 12	1½	50

Sheet Metal Screws
Pan Head Square Drive



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
40770	No. 6	½	100
40771	No. 6	¾	100
40772	No. 6	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
40774	No. 8	⅜	100
40775	No. 8	½	100
40776	No. 8	¾	100
40777	No. 8	1	100
40778	No. 8	1¼	100
40779	No. 8	1½	100
40780	No. 8	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
40782	No. 10	½	50
40783	No. 10	⅝	50
40784	No. 10	¾	50
40785	No. 10	1	50
40786	No. 10	1¼	50
40787	No. 10	1½	50
40789	No. 10	2	50
40791	No. 10	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
40792	No. 12	¾	50
40793	No. 12	1	50
40794	No. 12	1¼	50
40795	No. 12	1½	50

Sheet Metal Screws
Pan Head Square Drive - ✦Canada Only



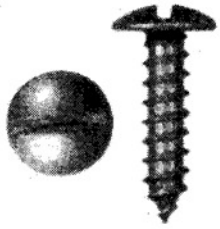
- Case hardened
- Socket drive — self tapping
- Secures sheet metal, asbestos, composition plywood

Part No.	Dia.	Length (In.)	Unit
✦C68733	No. 4	¼	100
✦50001	No. 4	⅜	100
✦50002	No. 4	½	100
✦C67431	No. 4	⅝	100
✦50004	No. 4	¾	100
✦C68735	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C68736	No. 5	⅜	100
✦C68737	No. 5	½	100
✦C68738	No. 5	⅝	100
✦50008	No. 5	¾	100
✦C68740	No. 5	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦CD555204	No.6	¼	100
✦50010	No. 6	⅜	100
✦50011	No. 6	½	100
✦50012	No. 6	⅝	100
✦50013	No. 6	¾	100
✦C68742	No. 6	⅞	100
✦50015	No. 6	1	100
✦50016	No. 6	1¼	100
✦50017	No. 6	1½	100
✦CD555206	No. 6	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦50019	No. 7	½	100
✦50020	No. 7	⅝	100
✦50021	No. 7	¾	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C67439	No. 8	⅜	100
✦50027	No. 8	½	100
✦50028	No. 8	⅝	100
✦50029	No. 8	¾	100
✦C68745	No. 8	⅞	100
✦50031	No. 8	1	100
✦50032	No. 8	1¼	100
✦50033	No. 8	1½	100
✦CD555210	No. 8	1¾	100
✦50034	No. 8	2	50
✦CD555212	No. 8	2½	100
✦C68748	No. 8	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C67447	No. 10	⅜	100
✦50035	No. 10	½	100
✦50036	No. 10	⅝	100
✦50037	No. 10	¾	100
✦50039	No. 10	1	50
✦50040	No. 10	1¼	50
✦50041	No. 10	1½	50
✦C69919	No. 10	1¾	100
✦50042	No. 10	2	50
✦C68749	No. 10	2½	100
✦C68750	No. 10	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦50045	No. 12	½	100
✦50046	No. 12	⅝	100
✦50047	No. 12	¾	50
✦50049	No. 12	1	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦50050	No. 12	1¼	50
✦50051	No. 12	1½	50
✦50052	No. 12	2	50
✦50053	No. 12	2½	50
✦50053-3	No. 12	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦CD555223	No.14	½	100
✦50054	No. 14	⅝	50
✦50055	No. 14	¾	50
✦50057	No. 14	1	50
✦50058	No. 14	1¼	50
✦50059	No. 14	1½	50
✦C69920	No. 14	1¾	100
✦50060	No. 14	2	50

✦Part numbers available in Canada only.

Truss Head

Sheet Metal Screws
Slotted Truss Head



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
37906	No. 6	⅜	50
37907	No. 6	½	50
37909	No. 6	¾	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
37911	No. 8	⅜	50
37912	No. 8	½	50
C80591	No. 8	⅝	100
37914	No. 8	¾	50
37916	No. 8	1	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
37921	No. 10	½	50
37922	No. 10	⅝	50
37923	No. 10	¾	50
37925	No. 10	1	50
37927	No. 10	1½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
37931	No. 12	⅝	100
37932	No. 12	¾	50
37934	No. 12	1	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
37944	¼	1	25

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Sheet Metal Screws

Square Drive Truss Head Sheet Metal Screws - ✦Canada Only

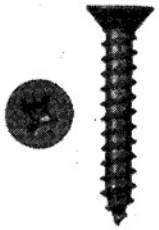


- Zinc plating.

Part No.	Dia.	Length (mm).	Unit
✦C68756	No. 6	⅜	100
✦C69063	No. 6	½	100
✦C68757	No. 6	⅝	100
✦C68758	No. 6	¾	100
✦C68759	No. 6	1	100
✦C68760	No. 6	1¼	100
✦C68761	No. 6	1½	100
✦C68762	No. 8	⅜	100
✦C68763	No. 8	½	100
✦C68764	No. 8	⅝	100
✦C68765	No. 8	¾	100
✦C68766	No. 8	1	100
✦C68767	No. 8	1¼	100
✦C68768	No. 8	1½	100
✦C68769	No. 8	2	100
✦CD556484	No. 10	½	100
✦C68771	No. 10	⅝	100
✦C68772	No. 10	¾	100
✦C68773	No. 10	1	100
✦C68774	No. 10	1¼	100
✦C68775	No. 10	1½	100

Flat Head

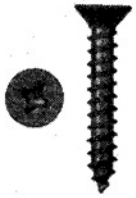
Sheet Metal Screws
Phillips Flat Head - Zinc



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
34719	No. 4	¼	100
34720	No. 4	⅜	100
34721	No. 4	½	100
34722-5/8	No. 4	⅝	100
34723	No. 4	¾	100
34724	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
C10196	No. 6	¼	100
C37465	No. 6	⅜	100
34725	No. 6	½	100
34726	No. 6	⅝	100
34727	No. 6	¾	100
34729	No. 6	1	100
34730	No. 6	1¼	100
34731-11/2	No. 6	1½	100
KP76074	No. 8	⅜	100
34738	No. 8	½	100
34739	No. 8	⅝	100
34740	No. 8	¾	100
34742	No. 8	1	100
34743	No. 8	1¼	100
34744	No. 8	1½	100
34746	No. 8	1¾	100
34747	No. 8	2	100
34748	No. 8	2½	100
34749	No. 8	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
34750	No. 10	½	50
34751	No. 10	⅝	50
34752	No. 10	¾	50
34753	No. 10	1	50
34754	No. 10	1¼	50
34755	No. 10	1½	50
34756	No. 10	1¾	50
34757	No. 10	2	50
34759	No. 10	2½	50
34760	No. 10	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
KP76092	No. 12	½	50
C37470	No. 12	⅝	100
34765	No. 12	¾	50
34766	No. 12	1	50
34767	No. 12	1¼	50
34768	No. 12	1½	50
34769	No. 12	1¾	50
34770	No. 12	2	50
34771-21/2	No. 12	2½	50
34772-3	No. 12	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
34773-3/4	¼	¾	50
34774-1	¼	1	50
34775-11/4	¼	1¼	50
34780	¼	1½	50
34782	¼	2	50
34778	¼	3	50

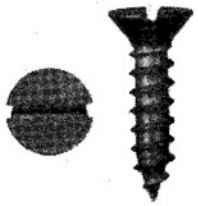
Sheet Metal Screws
Phillips Flat Head - Black Oxide



- Automotive trim applications

Part No.	Dia	Length	Unit
KP85414	No. 8	½	100
KP85415	No. 8	¾	100
KP85416	No. 8	1	100

Sheet Metal Screws
Slotted Flat Head



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
¤40731	No. 6	½	100
¤40732	No. 6	¾	100
¤40733	No. 6	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤40735	No. 7	¾	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤40739	No. 8	¾	100
¤40741	No. 8	1	100
¤40742	No. 8	1¼	100
¤40743	No. 8	1½	50
¤40745	No. 8	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤40746	No. 10	¾	50
¤40747	No. 10	1	50
¤40748	No. 10	1¼	50
¤40749	No. 10	1½	50
¤40750	No. 10	1¾	50
¤40751	No. 10	2	50
¤40752	No. 10	2½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤40752-1	No. 12	¾	50
¤40752-2	No. 12	1	50
¤40753	No. 12	1½	50
¤40755	No. 12	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤40757	¼	¾	50
¤40758	¼	1	50
¤40759	¼	1½	50
¤40761	¼	2	50

Sheet Metal Screws
Flat Head Square Drive - ✦Canada Only



- Case hardened
- Socket drive — self tapping
- Secures sheet metal, asbestos, composition plywood

Part No.	Dia.	Length (In.)	Unit
✦C67465	No. 4	⅜	100
✦50065	No. 4	½	100
✦50066	No. 4	⅝	100
✦50067	No. 4	¾	100
✦C68672	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦50072	No. 6	⅜	100
✦50073	No. 6	½	100
✦50074	No. 6	⅝	100

Continued on next page

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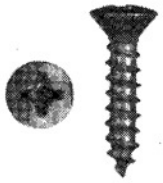
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Part No.	Dia.	Length (In.)	Unit
✦50075	No. 6	¾	100
✦C68679	No. 6	⅞	100
✦50077	No. 6	1	100
✦50078	No. 6	1¼	100
✦50079	No. 6	1½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C68682	No. 7	½	100
✦C68683	No. 7	⅝	100
✦C68685	No. 7	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦50090	No. 8	½	100
✦50091	No. 8	⅝	100
✦50092	No. 8	¾	100
✦C68690	No. 8	⅞	100
✦50094	No. 8	1	100
✦50095	No. 8	1¼	100
✦50096	No. 8	1½	50
✦50097	No. 8	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C67481	No. 10	½	100
✦50099	No. 10	⅝	100
✦50100	No. 10	¾	100
✦50102	No. 10	1	50
✦50103	No. 10	1¼	50
✦50104	No. 10	1½	50
✦C68707	No. 10	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C68713	No. 12	¾	100
✦C68714	No. 12	1	100
✦C68715	No. 12	1¼	100
✦C68716	No. 12	1½	100
✦C68718	No. 12	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C68723	No. 14	1	100
✦C68724	No. 14	1¼	100
✦50119	No. 14	1½	50

✦Part numbers available in Canada only.

Oval Head

Phillips Oval Head Sheet Metal Screws - Steel - Nickel Plating

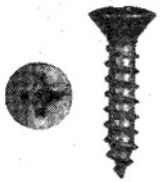


These popular screws feature a sharp point for fast, easy starting and threading. They're ideal for general usage and electrical applications requiring a low profile head with a good bearing surface.

- Nickel plating

Part No.	Dia.	Head Size	Length (mm).	Unit
C12841	No. 4		⅜	100
C12842	No. 4		½	100
C13008	No. 4		¾	100
C22633	No. 6		⅜	100
C22634	No. 6		½	100
C5320	No. 6		⅝	100
C5322	No. 6		¾	100
C22635	No. 6		⅞	100
C5326	No. 6		1	100
C5328	No. 6		1¼	50
C22636	No. 8		⅜	100
C7519	No. 8		½	100
C22637	No. 8		⅝	100
C7520	No. 8		¾	100
C22638	No. 8		⅞	100
C7521	No. 8		1	100
C22639	No. 8		1¼	50
C22640	No. 8		1½	50
C22641	No. 8		1¾	50
C22642	No. 8		2	50
C5341	No. 8	No . 6	½	100
C5348	No. 8	No . 6	¾	100
C5351	No. 8	No . 6	⅞	100
C5355	No. 8	No . 6	1	100
C5360	No. 8	No . 6	1¼	50
C5363	No. 8	No . 6	1½	50
C22648	No. 8	No . 6	2	50
C7522	No . 10		½	100
C22643	No . 10		⅝	100
C7523	No . 10		¾	100
C22644	No . 10		⅞	100
C7524	No . 10		1	100
C5389	No . 10		1⅛	50
C22645	No . 10		1¼	50
C22646	No . 10		1½	50
C22647	No . 10		1¾	50
C12238	No . 10		2	50
C22657	No . 10	No . 8	½	100
C22658	No . 10	No . 8	⅝	100
C5383	No . 10	No . 8	¾	100
C22659	No . 10	No . 8	⅞	100
C5387	No . 10	No . 8	1	100
C22660	No . 10	No . 8	1¼	50
C5392	No . 10	No . 8	1½	50
C12967	No . 10	No . 8	2	50
C22651	No . 10	No . 6	¾	50
C22653	No . 10	No . 6	1	50
C22655	No . 10	No . 6	1½	50
C12931	No . 12	No . 10	¾	50
C12932	No . 12	No . 10	1	50
C12934	No . 12	No . 10	1½	50

Sheet Metal Screws
Phillips Oval Head



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
32010-1	No. 6	¼	100
32011	No. 6	⅜	100
32012	No. 6	½	100
32013	No. 6	⅝	100
32014	No. 6	¾	100
32015	No. 6	⅞	100
32016	No. 6	1	100
32017	No. 6	1¼	50
32031	No. 8	⅜	100
32032	No. 8	½	100
32033	No. 8	⅝	100
32034	No. 8	¾	100
32035	No. 8	⅞	100
32036	No. 8	1	100
32037	No. 8	1¼	50
32038	No. 8	1½	50
32039	No. 8	1¾	50
32040	No. 8	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
32042	No. 10	½	50
32043	No. 10	⅝	50
32044	No. 10	¾	50
32046	No. 10	1	50
32047	No. 10	1¼	50
32048	No. 10	1½	50
32049	No. 10	1¾	50
32050	No. 10	2	50
32051	No. 10	2¼	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
32054	No. 12	¾	50
32055	No. 12	1	50
32057	No. 12	1½	50
KP81485	No. 12	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
KP1430	No. 14	1	50

Sheet Metal Screws
Phillips Oval Head



- Case hardened steel
- Black finish

Part No.	Dia.	Head Size	Length (In.)	Unit
38302	No. 6	6	⅜	50
38303	No. 6	6	½	50
C22115	No. 6	6	⅝	50
38305	No. 6	6	¾	50
38306	No. 6	6	1	50
C22118	No. 6	6	1¼	50
Part No.	**Dia.**	**Head Size**	**Length (In.)**	**Unit**
38307	No. 8	8	½	50
38309	No. 8	8	¾	50
38310	No. 8	8	1	50
38311	No. 8	8	1¼	50
38312	No. 8	8	1½	50
C22129	No. 8	8	1¾	50
C22120	No. 8	6	½	50
KP66137	No. 8	6	⅝	100
C22122	No. 8	6	¾	50
C22124	No. 8	6	1	50

Continued on next page

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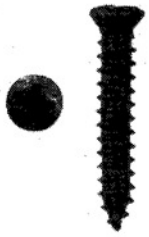
Sheet Metal Screws

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Part No.	Dia.	Head Size	Length (In.)	Unit
C22126	No. 8	6	1¼	50
C22128	No. 8	6	1½	50
C22130	No. 8	6	1¾	50

Part No.	Dia.	Head Size	Length (In.)	Unit
38313	No. 10	10	½	50
38314	No. 10	10	¾	50
38315	No. 10	10	1	50
38316	No. 10	10	1¼	50
38317	No. 10	10	1½	50
C22137	No. 10	10	2	50
C22132	No. 10	8	¾	50
C22136	No. 10	8	1½	50
C22138	No. 10	8	2	50

Sheet Metal Screws
Phillips Undersized Oval Head



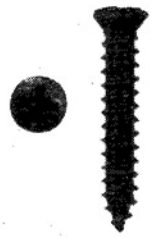
- Case hardened steel
- Zinc plated

Part No.	Dia.	Head Size	Length (In.)	Unit
32131	No. 8	No. 6	⅜	50
32132	No. 8	No. 6	½	50
32133	No. 8	No. 6	⅝	50
32134	No. 8	No. 6	¾	50
32135	No. 8	No. 6	⅞	50
32136	No. 8	No. 6	1	50
32137	No. 8	No. 6	1¼	50
32138	No. 8	No. 6	1½	50
32139	No. 8	No. 6	1¾	50
32140	No. 8	No. 6	2	50

Part No.	Dia.	Head Size	Length (In.)	Unit
KP85432	No. 10	No. 6	¾	100
32146-X	No. 10	No. 6	1	50
32147	No. 10	No. 6	1¼	50
32148	No. 10	No. 6	1½	50
32149	No. 10	No. 6	1¾	50
32144	No. 10	No. 8	¾	50
32146	No. 10	No. 8	1	50
32148-X	No. 10	No. 8	1½	50
32149-1	No. 10	No. 8	2	50

Part No.	Dia.	Head Size	Length (In.)	Unit
32156	No. 12	No. 10	⅞	50
32156-1	No. 12	No. 10	1	50

Sheet Metal Screws
Phillips Undersized Oval Head

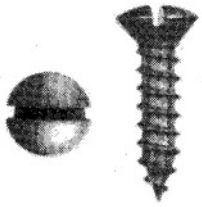


- Case hardened steel
- Black oxide finish

Part No.	Dia.	Head Size	Length (In.)	Unit
38355	No. 8	No. 6	½	50
38356	No. 8	No. 6	¾	50

Part No.	Dia.	Head Size	Length (In.)	Unit
38360	No. 10	No. 8	½	50
38362	No. 10	No. 8	1	50
38363	No. 10	No. 8	1¼	50

Sheet Metal Screws
Slotted Oval Head



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
¤31611	No. 6	⅜	100
¤31612	No. 6	½	100
¤31614	No. 6	¾	100
¤31616	No. 6	1	100

Part No.	Dia.	Length (In.)	Unit
¤31622	No. 7	½	100
¤31624	No. 7	¾	100
¤31626	No. 7	1	100

Part No.	Dia.	Length (In.)	Unit
¤31631	No. 8	⅜	100
¤31632	No. 8	½	100
¤31633	No. 8	⅝	100
¤31634	No. 8	¾	100
¤31636	No. 8	1	100
¤31637	No. 8	1¼	100
¤31638	No. 8	1½	50

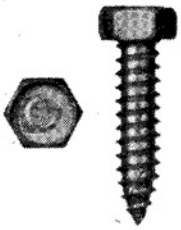
Part No.	Dia.	Length (In.)	Unit
¤31642	No. 10	½	100
¤31644	No. 10	¾	100
¤31646	No. 10	1	50
¤31647	No. 10	1¼	50
¤31648	No. 10	1½	50
¤31650	No. 10	2	50

Part No.	Dia.	Length (In.)	Unit
¤31656	No. 12	1	50

Part No.	Dia.	Length (In.)	Unit
¤31664	¼	¾	50
¤31667	¼	1¼	50

Hex Head

Sheet Metal Screws
Indented Hex Head



- Case hardened steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
C86255	No. 6	½	100

Part No.	Dia.	Length (In.)	Unit
31901	No. 8	⅜	50
31902	No. 8	½	50
C86258	No. 8	⅝	100
31903	No. 8	¾	50
31904	No. 8	1	50
31906	No. 8	1½	50

Part No.	Dia.	Length (In.)	Unit
31912	No. 10	½	50
31914	No. 10	¾	50
31916	No. 10	1	50
31917	No. 10	1¼	50
31918	No. 10	1½	50
¤31920	No. 10	2	25

Part No.	Dia.	Length (In.)	Unit
31922	No. 12	½	50
C86262	No. 12	⅝	100
31924	No. 12	¾	50
31926	No. 12	1	50
¤31927	No. 12	1¼	50
31928	No. 12	1½	50
¤31930	No. 12	2	25

Part No.	Dia.	Length (In.)	Unit
31932	¼	½	50
31933	¼	⅝	50
31934	¼	¾	50
31935	¼	⅞	50
31936	¼	1	50
31937	¼	1¼	50
31938	¼	1⅜	25
31939	¼	1½	50
31940	¼	1¾	25
31940-1	¼	2	25
31940-2	¼	2½	25

Continued on next page

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Continued from previous page

Part No.	Dia.	Length (In.)	Unit
31942	5/16	1/2	25
31944	5/16	3/4	50
31945	5/16	7/8	50
31946	5/16	1	25
31946-1	5/16	1 1/4	25
31947	5/16	1 1/2	25
‡C85870	5/16	1 1/2	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
31949	3/8	3/4	25
31948	3/8	1	25
KP85493	3/8	1 1/4	25
31949-11/2	3/8	1 1/2	25
‡C85873	3/8	1 1/2	25

‡Black Oxide Finish

Self-Tapping Screws

Slotted Hex Washer Head - Self Piercing

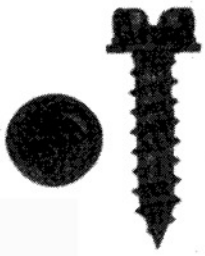


- Case hardened steel
- Zinc plated
- Needle point
- Self-piercing
- 1/4" hex
- Use drill chuck no. 33858

Part No.	Dia.	Length (In.)	Unit
31160	No. 6	3/8	50
KP74524	No. 6	1/2	100
KP74525	No. 6	3/4	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31161	No. 7	1/2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
31162	No. 8	1/2	50
31163	No. 8	5/8	50
31164	No. 8	3/4	50
31164-1	No. 8	1	50
31164-2	No. 8	1 1/2	50
31164-3	No. 8	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
31165	No. 10	1/2	50
31166	No. 10	3/4	50

Sheet Metal Screws

Slotted Hex Washer Head



- Case hardened steel
- Zinc plated

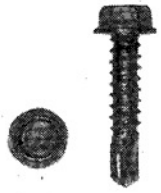
Part No.	Dia.	Length (In.)	Unit
31855	No. 6	3/8	50
31856	No. 6	1/2	50
C22760	No. 6	5/8	100
31857	No. 6	3/4	50
C94008	No. 6	1	100
C94009	No. 6	1 1/4	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
KP31026	No. 7	1/2	100
KP71278	No. 7	3/4	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31858	No. 8	3/8	50
31859	No. 8	1/2	50
31859-5/8	No. 8	5/8	50
31859-3/4	No. 8	3/4	50
31859-1	No. 8	1	50
C94016	No. 8	1 1/4	100
31859-11/2	No. 8	1 1/2	50
C87626	No. 8	2	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
31859-5	No. 10	3/8	50
31860	No. 10	1/2	50
31861	No. 10	5/8	50
31862	No. 10	3/4	50
31864	No. 10	1	50
31864-1	No. 10	1 1/4	50
31865-11/2	No. 10	1 1/2	50
31866-2	No. 10	2	50
C97769	No. 10	2 1/2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31866	No. 12	1/2	50
C23176	No. 12	5/8	50
31867	No. 12	3/4	50
31868	No. 12	1	50
C22770	No. 12	1 1/4	50
31869-11/2	No. 12	1 1/2	50
C97771	No. 12	2	100
C97772	No. 12	2 1/2	100
C97773	No. 12	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
31870	1/4	1/2	50
31871	1/4	5/8	50
*KP66724	1/4	5/8	100
31872	1/4	3/4	50
31874	1/4	1	50
31876	1/4	1 1/4	25
31877	1/4	1 1/2	25
31879	1/4	2	25
C97793	1/4	2 1/2	100
✦CD556664	1/4	3	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
31881	5/16	1/2	25
31882	5/16	3/4	25
31884	5/16	1	25
31886	5/16	1 1/4	25
31888	5/16	1 1/2	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦CD559163	3/8	1	25
✦CD559215	3/8	1 1/4	25
✦CD559195	3/8	1 1/2	25

✦Canada only *Black Oxide

Hex Head

Original TEKS® Brand

Hex Washer Head Self-Drilling Screws



- TEKS quality
- USA manufactured
- No. 8 diamter is electro-plated zinc
- No. 10, 12, and 1/4 diameters are Climaseal coated for extra corrosion protection

Part No.	Dia.	Length	Head	Point	Unit
KP66624	No. 8-18	1/2	Hex	No. 2	100
KP78819	No. 8-18	3/4	Hex	No. 2	100
KP66625	No. 8-18	1	Hex	No. 2	100
Part No.	**Dia.**	**Length**	**Head**	**Point**	**Unit**
KP66626	No. 10-16	1/2	Hex	No. 3	100
KP66627	No. 10-16	3/4	Hex	No. 3	100
KP66628	No. 10-16	1	Hex	No. 3	100
KP78820	No. 10-16	1 1/4	Hex	No. 3	100
KP76910	No. 10-16	1 1/2	Hex	No. 3	100
Part No.	**Dia.**	**Length**	**Head**	**Point**	**Unit**
KP66629	No. 12-14	3/4	Hex	No. 3	100
KP66630	No. 12-14	1	Hex	No. 3	100
KP78821	No. 12-14	1 1/4	Hex	No. 3	100
KP76911	No. 12-14	1 1/2	Hex	No. 3	100
KP76912	No. 12-14	2	Hex	No. 3	100
Part No.	**Dia.**	**Length**	**Head**	**Point**	**Unit**
KP66631	1/4-14	3/4	Hex	No. 3	100
KP66632	1/4-14	1	Hex	No. 3	100
KP78822	1/4-14	1 1/4	Hex	No. 3	100
KP76913	1/4-14	1 1/2	Hex	No. 3	100
KP76914	1/4-14	2	Hex	No. 3	100
Part No.	**Dia.**	**Length**	**Head**	**Point**	**Unit**
KP76449	No. 12-14	3/4	Hex Seal Washer	No. 3	100
KP76450	No. 12-14	1	Hex Seal Washer	No. 3	100
Part No.	**Dia.**	**Length**	**Head**	**Point**	**Unit**
KP76451	1/4-14	3/4	Hex Seal Washer	No. 3	100
KP76452	1/4-14	1	Hex Seal Washer	No. 3	100

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Self-Drilling Screws

Hex Head Self-Drilling Screws - Drill Point - Domestic



- Case Hardened Steel
- Zinc plating
- Type BSD
- Made in USA.

Part No.	Dia.	Length (In.)	Point	Unit
C84377	No. 6-20	⅜	No. 2	50
C84378	No. 6-20	½	No. 2	50
C84379	No. 6-20	¾	No. 2	50
C30219	No. 6-20	1	No. 2	50

Part No.	Dia.	Length (In.)	Point	Unit
C84380	No. 8-18	½	No. 2	50
C84381	No. 8-18	¾	No. 2	50
*KP38165	No. 8-18	¾	No. 2	100
C84382	No. 8-18	1	No. 2	50
C30220	No. 8-18	1¼	No. 2	50
C96487	No. 8-18	1½	No. 2	25
C96488	No. 8-18	2	No. 3	25

Part No.	Dia.	Length (In.)	Point	Unit
C84383	No. 10-16	½	No. 2	50
C84384	No. 10-16	¾	No. 2	50
C84385	No. 10-16	1	No. 3	50
C30222	No. 10-16	1¼	No. 3	50
C96489	No. 10-16	1½	No. 3	25
C96490	No. 10-16	2	No. 3	25

Part No.	Dia.	Length (In.)	Point	Unit
C84386	No. 12-14	¾	No. 3	25
C84387	No. 12-14	1	No. 3	25
C30224	No. 12-14	1¼	No. 3	25
C30225	No. 12-14	1½	No. 3	25
C30226	No. 12-14	1¾	No. 3	25
C30227	No. 12-14	2	No. 3	25

Part No.	Dia.	Length (In.)	Point	Unit
KP84453	No. 12-24	⅞	No. 4	50
KP84454	No. 12-24	1¼	No. 4.5	50

Part No.	Dia.	Length (In.)	Point	Unit
C84388	No. ¼-14	¾	No. 3	25
C84389	No. ¼-14	1	No. 3	25
C30228	No. ¼-14	1¼	No. 3	25
C84390	No. ¼-14	1½	No. 3	25
C96491	No. ¼-14	2	No. 3	25
C30230	No. ¼-14	2½	No. 3	25
C30231	No. ¼-14	3	No. 3	25

*Black Oxide Plating

SELF-DRILLING SCREWS

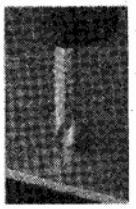
INSTALLATION TIPS

- To ensure best results a 1900 to 2500 RPM screwgun rated at four amps or higher, equipped with a depth locating nosepiece must be used
- During initial drilling, adequate pressure must be applied while keeping the fastener and screwgun perpendicular to the work surface. This will prevent walking and angle driving
- Drilling must be completed before the threads engage the material. This is due to the 10:1 ratio of thread advancement to material removal. Correct selection of Teks® self-drilling screws relative to material thickness is essential
- Never angle drive or overdrive self-drilling screws as this may lead to unsatisfactory product performance or product failure.

POINT	APPLICATIONS
#2	Ideal for fastening accessories, clips, sheet eave panels, liner panels and sheet panels to steel framing from .035" to .210" thick
#3	Ideal for fastening accessories, clips, duct straps or sheet to steel framing. For light plate & structural steel from .036" to .210" thick
#4	Ideal for fastening accessories, clips, sheet and liner panels to bar joist or structural steel. For medium structural and steel plate from .125" to .250" thick
#4.5	See #4 above. For medium structural and steel plate from .125" to .375" thick
#5	See #4 above. For heavy structural and steel plate from .250" to .500" thick

DRILL

Self-drilling screws drill their own hole and fasten material securely in steel up to 1/2 inch thick. The unique drill point assures quick and consistent drilling with minimal pressure



TAP

Self-drilling screws eliminate alignment problems. Quick penetration to structural steel eliminates rework, burn-throughs, marring and breakage caused by inferior fastening methods



FASTEN

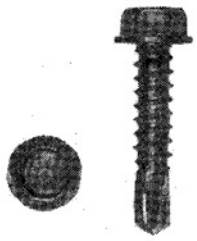
Self-drilling screws provide consistent, strong holding power for pre-engineered metal construction and general construction



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Self-Drilling Screws

Hex Head Self-Drilling Drill Point



- Case hardened steel
- Zinc plated
- Type BSD

Part No.	Dia.	Length (In.)	Point	Unit
33828-3/8	No. 6-20	3/8	No. 2	50
33828-1/2	No. 6-20	1/2	No. 2	50
33828-5/8	No. 6-20	5/8	No. 2	50
33828-3/4	No. 6-20	3/4	No. 2	50
Part No.	**Dia.**	**Length (In.)**	**Point**	**Unit**
33829-1	No. 8-18	1/2	No. 2	100
C29859	No. 8-18	1/2	No. 2	1000
33829-2	No. 8-18	5/8	No. 2	100
33829-3	No. 8-18	3/4	No. 2	100
C29860	No. 8-18	3/4	No. 2	1000
*KP38165	No. 8-18	3/4	No. 2	100
33829-4	No. 8-18	1	No. 2	100
C29861	No. 8-18	1	No. 2	1000
33829-5	No. 8-18	1 1/4	No. 2	100
33829-6	No. 8-18	1 1/2	No. 2	100
C29862	No. 8-18	1 1/2	No. 2	1000
Part No.	**Dia.**	**Length (In.)**	**Point**	**Unit**
33830-X	No. 10-16	1/2	No. 2	100
C29863	No. 10-16	1/2	No. 2	1000
33830	No. 10-16	5/8	No. 2	100
33831	No. 10-16	3/4	No. 2	100
C29864	No. 10-16	3/4	No. 2	1000
33833	No. 10-16	1	No. 2	100
C29865	No. 10-16	1	No. 2	1000
33834	No. 10-16	1 1/4	No. 3	100
33835	No. 10-16	1 1/2	No. 3	100
C29866	No. 10-16	1 1/2	No. 3	1000
33836	No. 10-16	1 3/4	No. 3	100
33836-2	No. 10-16	2	No. 3	100
C29867	No. 10-16	2	No. 3	1000
33836-21/2	No. 10-16	2 1/2	No. 3	100
KP28116	No. 10-16	3	No. 3	100
Part No.	**Dia.**	**Length (In.)**	**Point**	**Unit**
33838	No. 12-14	3/4	No. 3	100
C29868	No. 12-14	3/4	No. 3	1000
33840	No. 12-14	1	No. 3	100
C29869	No. 12-14	1	No. 3	1000
33841	No. 12-14	1 1/4	No. 3	100
1562-1144	No. 12-14	1 1/4	No. 5	100
33842	No. 12-14	1 1/2	No. 3	100
C29870	No. 12-14	1 1/2	No. 3	500
33843	No. 12-14	1 3/4	No. 3	100
33844	No. 12-14	2	No. 3	100
C29871	No. 12-14	2	No. 3	500
1562-1145	No. 12-14	2	No. 5	100
KP28118	No. 12-14	2 1/2	No. 3	100
KP28119	No. 12-14	3	No. 3	100
33846	1/4-14	3/4	3	100
C29872	1/4-14	3/4	3	500
33848	1/4-14	1	3	100
C29873	1/4-14	1	3	500
33849	1/4-14	1 1/4	3	100
33850	1/4-14	1 1/2	3	100
C29874	1/4-14	1 1/2	3	500
33851	1/4-14	1 3/4	3	100
33852	1/4-14	2	3	100
33852-21/2	1/4-14	2 1/2	3	100
33852-3	1/4-14	3	3	100
33852-4	1/4-14	4	3	100

*Black Oxide

Hex Washer Head – Drill Point

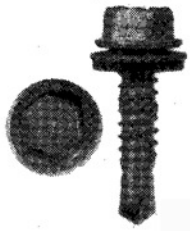


- Used to fasten heavy gauge materials (.175-.500)
- Zinc plating
- Washer head provides strength and bearing surface.

Part No.	Point	Dia. - TPI	Length (In.)	Unit
C30178	No. 4	No. 12-14	7/8	25
C30179	No. 5	No. 12-14	1 1/4	25
C30180	No. 5	No. 12-14	1 1/2	25
C30182	No. 5	1/4-14	3	10
C30183	No. 5	1/4-14	4	10

Self-Drilling Screws

Type BSD Self-Drilling/Tapping Screws



- Case hardened steel
- Zinc plated
- Use with nutsetters 120240 through 120247
- 9/16" O.D. washer

Hex Washer Head with Neoprene Seal Style 3

Part No.	Dia.	Length (In.)	Unit
KP76448	No. 10-16	3/4	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
C633358	12-14	3/4	50
C30192	12-14	1	25
C30193	12-14	1 1/4	25
C30194	12-14	1 1/2	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
31815	1/4-14	3/4	50
31816	1/4-14	1	50
31817	1/4-14	1 1/4	50
31818	1/4-14	1 1/2	50
31819	1/4-14	2	50

Nutsetters



- Maximum strength - Made of shock-resistant tool steel and heat-treated for maximum strength and hardness
- Universal 1/4" hex shank - Fits most power screwdrivers, variable speed drills, and cordless drills
- Powerful magnet - Five times more powerful than common magnets; provides positive retention of the screw which improves speed of installation; ideal for extended reach applications
- Lobular design drive - Drives the fastener on the sides instead of forcing the corners to turn; maintains the true shape of the fastener; dramatically reduces breakage and stripping damage; provides more clearance on the corners of the fastener where paint build-up can occur

Magnetic

Part No.	Hex Drive (In.)	Shank Dia. (In.)	Socket Body (In.)	OAL (In.)	Unit
120240	1/4	1/4	7/16	1 7/8	1
120240-10	1/4	1/4	7/16	1 7/8	10
120241	5/16	1/4	1/2	1 7/8	1
120241-10	5/16	1/4	1/2	1 7/8	10
120242	3/8	1/4	9/16	1 7/8	1
120242-10	3/8	1/4	9/16	1 7/8	10
120243	7/16	1/4	5/8	1 7/8	1
120244	1/4	1/4	7/16	2 9/16	1
120244-10	1/4	1/4	7/16	2 9/16	10
120245	5/16	1/4	1/2	2 9/16	1
120245-10	5/16	1/4	1/2	2 9/16	10
120246	3/8	1/4	9/16	2 9/16	1
120246-10	3/8	1/4	9/16	2 9/16	10
120247	7/16	1/4	5/8	2 9/16	1
KP35412	1/4	1/4	7/16	4	1
KP35413	5/16	1/4	1/2	4	1

Pan Head

Self-Drilling Screws

Phillips Pan Head-Domestic



- Case hardened steel
- Climaseal coating for extra corosion protection

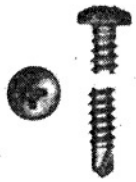
Part No.	Dia. (In.)	Length (In.)	Point	Unit
KP76915	No. 6	3/8	2	100
KP76916	No. 8	1/2	2	100
KP76917	No. 8	3/4	2	100
KP76918	No. 8	1	2	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Point**	**Unit**
KP76919	No. 10	1/2	3	100
KP76920	No. 10	3/4	3	100

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Self-Drilling Screws

Self-Drilling Screws

Type BSD Self-Drilling/Tapping Screws



- Case hardened steel
- Zinc plated
- Use with nutsetters 120240 through 120247

Phillips Pan Head Style 2

Part No.	Dia.	Length (In.)	Unit
33854-3/8	No. 6	3/8	100
33854	No. 6	1/2	250
MP33854	No. 6	1/2	100
33854-5/8	No. 6	5/8	100
33854-3/4	No. 6	3/4	100
33854-1	No. 6	1	100
33854-11/2	No. 6	1 1/2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
33855	No. 8	1/2	250
MP33855	No. 8	1/2	100
†KP38170	No. 8	1/2	100
33855-5/8	No. 8	5/8	100
33856	No. 8	3/4	250
MP33856	No. 8	3/4	100
33856-1	No. 8	1	100
33856-11/4	No. 8	1 1/4	100
33857	No. 8	1 1/2	250
MP33857	No. 8	1 1/2	100
KP61443	No. 8	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
520	No. 10	1/2	100
33857-5/8	No. 10	5/8	100
521	No. 10	3/4	100
522	No. 10	1	100
33857-11/4	No. 10	1 1/4	100
33857-11/2	No. 10	1 1/2	100
33857-2	No. 10	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
523	No. 12	1	50
CD556652*	12-14	7/8	100

*Phillips Flat Head
†Black Oxide Plating
✦Canada only

Self-Drilling Screws

Self-Drilling/Tapping Type - ✦Canada Only



Pan Head Socket Drive

Part No.	Dia.	Lgth.	Unit
✦C69066	No. 6	3/8	100
✦50130	No. 6	1/2	100
Part No.	**Dia.**	**Lgth.**	**Unit**
✦50135	No. 8	1/2	100
✦C69069	No. 8	5/8	100
✦50136	No. 8	3/4	100
✦C69071	No. 8	1	100
✦C69072	No. 8	1 1/4	100
✦C69073	No. 8	1 1/2	100
✦C69074	No. 8	2	100
Part No.	**Dia.**	**Lgth.**	**Unit**
✦50140	No. 10	1/2	100
✦C69076	No. 10	5/8	100
✦50141	No. 10	3/4	100
✦C69078	No. 10	1	100
✦C69079	No. 10	1 1/4	100
✦C69080	No. 10	1 1/2	100
✦CD556521	No. 10		100

✦Part numbers available in Canada only.

Pancake Head

Pancake Head Drill Point Screws



- Wide, low-profile pancake head provides large bearing surface
- Dual drive, Phillips No. 2 or No. 2 square recess
- Unique serrations under head help resist loosening
- Available in Zinc-yellow or highly resistant black e-coat
- Excellent for trailer repair.

Part No.	Dia.	Length (In.)	Coating	Clamping Length (In.)	Unit
C29745	No. 10	1	Black E-Coat	5/8	100
C29746	No. 10	1 1/4	Black E-Coat	29/32	100
C29747	No. 10	3/4	Zinc-Yellow	25/64	100
C29748	No. 10	1	Zinc-Yellow	5/8	100
C29749	No. 10	1 1/4	Zinc-Yellow	29/32	100

Note: Black E-Coat is a coating that is highly resistant to animal wastes. This makes the fastener ideal for any trailer that transports farm animals and livestock.

Note: These fasteners install best at speeds between 1800 - 2500 RPM.

Applications

Part No.	Trailer Type	Applications
C29745	Livestock and horse trailers	Attach rubber mats over plywood to gage steel or aluminum side posts.
C29746	Livestock and horse trailers	
C29747	Dry freight, van bodies, containers	Plywood liner up to 1/4" thick.
C29748	Dry freight, van bodies, containers	Plywood liner 3/8"-1/2" thick.
C29749	Dry freight, van bodies, containers	Plywood liner 5/16"-3/4" thick.

Lath Screws – Phillips Head Steel



- Used to Repair Truck Trailer Walls
- No. 2 Drill Point
- Zinc or Black Oxide Finish

Part No.	Dia. - TPI	Length (In.)	Finish	Unit
C96775	No. 8-18	1/2	Zinc	100
C632829	No. 8-18	3/4	Zinc	100
C96777	No. 8-18	1	Zinc	100
C96776	No. 8-18	1 1/4	Zinc	100
C96772	No. 8-18	1/2	Black	100
C96774	No. 8-18	1	Black	100
C96773	No. 8-18	1 1/4	Black	100
325046	No. 10-24	3/4	Zinc	250

Flat Head

Wall Liner Screws

Self-Drilling Type/Drilltite® Torx® Wafer Head



- Case hardened steel
- Zinc plated
- Drill point
- For fastening plywood wall liner panels to metal framing members on truck trailers

Part No.	Dia.	Length (In.)	Torx Size	Unit
C30216	No. 10	3/4	T-25	50
2610-1	No. 10	1	T-25	50
2610-11/4	No. 10	1 1/4	T-25	50
2610-11/2	No. 10	1 1/2	T-25	50

GRAYSON INDUSTRIES, INC.
Toll Free Phone: (866) 720-0175 • email: graysonind@gmail.com • Fax (24 hrs.): (954) 720-0175

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Wafer Head Square Socket Self-Drilling Screws - No Wings

Canada Only

- Zinc plated

Part No.	Size	Wood Thickness	Metal Thickness	Point	Unit
✦CD555360	10-24 x ¾	¼	.110-.175	#3	100
✦CD555361	10-24 x 1	⅜	.110-.175	#3	100
✦CD555362	10-24 x 1¼	¾	.110-.175	#3	100
✦CD555364	11⁄16 x 1¼	½	.110-.175	#3	100

✦Canada only

Wafer Head Square Socket Self-Drilling Screws - With Wings

Canada Only

- Zinc plated

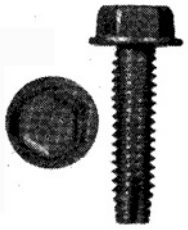
Part No.	Size	Wood Thickness	Metal Thickness	Point	Unit
✦CD555363	10-24 x 1½	¾	.110-.175	#3	100
✦CD555365	12-24 x 2	1	.145-.312	#4	100
✦CD555366	12-24 x 2½	1½	.145-.312	#4	100
✦CD556648	12-24 x 3	2	.145-.312	#4	100

✦Canada only

Hex Head

Self-Tapping Screws

Hex Washer Head Type D/Type 1 Point



- UNC (USS)
- Case hardened steel
- Zinc plated

Part No.	Dia. - TPI	Length (In.)	Unit
✦CD556246	No. 8-32	½	50
31828-1/2	No. 8 - 32	½	50
31828-3/4	No. 8 - 32	¾	50
31828-1	No. 8 - 32	1	50
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
31829	No. 10 - 24	⅜	50
31830	No. 10 - 24	½	50
31831	No. 10 - 24	¾	50
31832	No. 10 - 24	1	50
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
31834	No. 12 - 24	½	50
31835	No. 12 - 24	¾	50
31836	No. 12 - 24	1	50
31838	¼ - 20	½	50
31839	¼ - 20	¾	50
31840	¼ - 20	1	50
31840-11/4	¼ - 20	1¼	50
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
31843	5⁄16 - 18	½	50
31844	5⁄16 - 18	¾	50
31845	5⁄16 - 18	1	50
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
31846	⅜ - 16	¾	50
31847	⅜ - 16	1	50
31848	⅜ - 16	1½	50

NOTE: Due to a running change, some hex washer head screws will be slotted

✦Canada Only

Hex Washer Head, Type F Point



- Case Hardened Steel
- Zinc Plating
- Screw Cuts and Taps Their Own Threads.

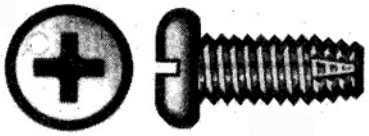
Part No.	Dia. - TPI	Length (In.)	Unit
C627300	6-32	¼	100
C627306	6-32	½	100
C627310	6-32	¾	100
C627314	6-32	1	100
C627346	8-32	½	100
C627386	10-24	½	100
C627390	10-24	¾	100
C627394	10-24	1	100
C627462	¼-20	½	50
C627466	¼-20	¾	50
C627470	¼-20	1	50
C627504	5⁄16-18	¾	50
C627508	5⁄16-18	1	50
✦CD558656*	¼-20	⅝	100

✦Canada only

*Type 1 point

Pan Head

Phillips Pan Head, Type F Point



- Case Hardened Steel
- Zinc Plating
- Screw Cuts and Tap Their Own Threads.

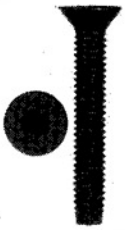
Part No.	Dia. - TPI	Length (In.)	Unit
C24015	6-32	¼	100
C24016	6-32	½	100
C24017	6-32	¾	100
C24018	8-32	½	100
C24019	8-32	¾	100
C24020	8-32	1	100
C24021	10-24	½	100
C24022	10-24	¾	100
C24023	10-24	1	100
C24024	10-32	½	100
C24025	10-32	¾	100
C24026	10-32	1	100
C24027	¼-20	½	50
*KP61201	¼-20	⅝	50
C24028	¼-20	¾	50
C24029	¼-20	1	50

*Slotted Panhead

Floorboard Screws

Floorboard Screws

Self-Tapping Type/Torx® Flat Head



- UNC (USS)
- Case hardened steel
- Phosphate and oil finish
- Type F point
- Use with Torx® drivers part nos. 32825 or 32826

Part No.	Dia. - TPI	Length (In.)	Torx Size	Unit
32801	¼ - 20	1	T-30	100
C31683	¼ - 20	1¼	T-30	100
32802	¼ - 20	1½	T-30	100
32803	¼ - 20	1¾	T-30	100
32804	¼ - 20	2	T-30	100
C31687	¼ - 20	2¼	T-30	100
32805	¼ - 20	2½	T-30	100
32808	¼ - 20	3	T-30	100
C31690	¼ - 20	3½	T-30	100
C29332	¼-20	4	T-30	100
Part No.	**Dia. - TPI**	**Length (In.)**	**Torx Size**	**Unit**
32817	5⁄16 - 18	2	T-40	100
32818	5⁄16 - 18	2½	T-40	100
*34254	5⁄16-18	2½	T40	250
C29333	5⁄16-18	3	T40	100
Bulk Part No.	**Dia. - TPI**	**Length (In.)**	**Torx Size**	**Unit**
32802-S	¼ - 20	1½	T-30	2000
32804-S	¼ - 20	2	T-30	1800
32804-1S	¼ - 20	2¼	T-30	1400
32805-S	¼ - 20	2½	T-30	1200
32808-S	¼ - 20	3	T-30	1000
C27150	¼ - 20	4	T-30	1100
Part No.	**Dia. - TPI**	**Length (In.)**	**Torx Size**	**Unit**
32817-S	5⁄16 - 18	2	T-40	1200
32817-1S	5⁄16 - 18	2¼	T-40	1000
32818-S	5⁄16 - 18	2½	T-40	800
C27153	5⁄16 - 18	3	T-40	980

*Special ¼" shoulder

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All Purpose Screws/Wood/Lag/Drywall 67

Floorboard Screws
Phillips Flat Head



- Zinc Plating
- Type F point

Part No.	Dia.	Length (In.)	Unit
KP60890	¼-20	2	100
KP60891	¼-20	2½	100
KP60892	¼-20	3	100

Floorboard Screws
CSD/Style 3 Phillips Flat Head Self-Drilling/Reaming/Tapping Type



- UNC (USS)
- Case hardened steel
- Zinc plated
- Reamer wings
- Drill point
- For drilling/reaming through wood (or other soft material) and then drilling and tapping metal framing

Part No.	Dia. - TPI	Length (In.)	Unit
KP83181	No. 10-24	1 7/16	100
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
KP81877	No. 12-24	2¼	100
KP81878	No. 12-24	2¾	100
Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
32831-2	¼-20	2	100
32831-21/2	¼-20	2½	100
KP81879	¼-20	3	100

Spax Universal

Spax® Universal Screws



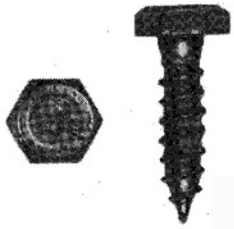
- Case hardened steel
- Yellow chromate
- Teflon coated
- Flat head, pozidrive type
- Full thread — up to 1¼" length
  Partial thread — over 1¼" length
- Patented saw-knife bladed thread
- No pre-drilling
- For wood, plastic or sheet metal applications

Part No.	Dia.	Length (In.)	Unit
C28543	No. 6	¾	100
37511	No. 6	1	200
37514	No. 6	1½	200
Part No.	**Dia.**	**Length (In.)**	**Unit**
37517	No. 8	¾	200
37518	No. 8	1	200
37519	No. 8	1¼	200
37521	No. 8	1½	200
C28548	No. 8	1¾	50
37523	No. 8	2	200
37525	No. 8	2¼	100
C28550	No. 8	2½	50
C29323	No. 8	2½	5 Lb
Part No.	**Dia.**	**Length (In.)**	**Unit**
37541	No. 10	¾	200
37542	No. 10	1	200
37543	No. 10	1¼	200
37545	No. 10	1½	200
37547	No. 10	2	200
37548	No. 10	2½	100
C28553	No. 10	3	25
C29324	No. 10	3	5 Lb.
Part No.	**Dia.**	**Length (In.)**	**Unit**
37556	No. 14(1)	1½	200
37558	No. 14(1)	2	200
37560	No. 14(1)	2½	100

(1) This size can be used for No. 12 applications.

Hex Head Lag Screws

Hex Head Lag Screws

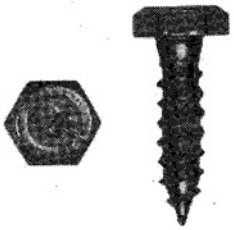


- Low carbon steel
- Zinc plated

Part No.	Dia. (In.)	Length (In.)	Unit
32310	¼	1	50
32311	¼	1¼	50
32312	¼	1½	50
32314	¼	2	50
✦CD558525*	¼	2	100
32316	¼	2½	50
32318	¼	3	50
32319	¼	3½	50
32320	¼	4	50
32320-1	¼	5	50
32320-2	¼	6	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
32320-3	5/16	1	50
32321	5/16	1¼	50
32322	5/16	1½	50
KP86882	5/16	1¾	50
32324	5/16	2	50
32326	5/16	2½	50
32328	5/16	3	50
32329	5/16	3½	50
32330	5/16	4	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
32330-1	5/16	4½	50
32331	5/16	5	50
32332	5/16	6	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
32333	3/8	1	50
32334	3/8	1½	50
32336	3/8	2	50
32338	3/8	2½	50
32340	3/8	3	50
✦CD559322*	3/8	3	50
32342	3/8	3½	50
32344	3/8	4	25
✦CD559388*	3/8	4	25
32345	3/8	4½	25
32346	3/8	5	25
32347	3/8	5½	25
32348	3/8	6	25
✦CD559434	3/8	6	25
32349	3/8	7	25
32349-1	3/8	8	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
KP86888	½	1½	25
32350	½	2	25
32351	½	2½	25
32352	½	3	25
✦CD557808*	½	3	25
32353	½	3½	25
32354	½	4	25
✦CD557857	½	4	25
KP86890	½	4½	25
32356	½	5	25
32357	½	6	25
C96076	½	7	10
✦CD557916	½	8	25
C96079	½	10	10

✦Canada only
*Plain finish

Hex Head Lag Screws - Galvanized - ✦Canada only



- Low Carbon Steel
- Hot Dip Galvanized Plating

Part No.	Dia.	Length (In.)	Unit
✦C97554	¼	1	100
✦C97555	¼	1½	100
✦C97556	¼	2	100
✦C97557	¼	2½	100
✦C97558	¼	3	100
✦C97559	¼	3½	100
✦C97560	¼	4	100
✦C97562	¼	5	100
✦C97564	¼	6	100
✦C97565	5/16	1	100
✦C97566	5/16	1½	100
✦C97567	5/16	2	100
✦C97568	5/16	2½	100
✦C97569	5/16	3	100

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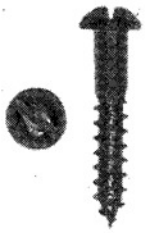
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Part No.	Dia.	Length (In.)	Unit
✣C97570	5/16	3½	100
✣C97571	5/16	4	100
✣C97573	5/16	5	100
✣C97575	5/16	6	100
✣C97578	3/8	2	100
✣C97579	3/8	2½	100
✣C97580	3/8	3	100
✣C97581	3/8	3½	100
✣C97582	3/8	4	100
✣C97584	3/8	5	50
✣C97586	3/8	6	50
✣C97588	3/8	8	25
✣C97589	3/8	10	10
✣C97592	½	2	50
✣C97593	½	2½	50
✣C97594	½	3	50
✣C97596	½	4	50
✣C97598	½	5	50
✣C97600	½	6	25
✣C97602	½	8	25
✣C97603	½	10	10
✣C97604	½	12	10

Round Head

Wood Screws

Slotted Round Head



- Meets ANSI/ASME B18.6.1 specifications
- Low carbon steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
¤35901	No. 4	½	100
35902	No. 4	¾	100
¤35903	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35910	No. 6	½	100
¤35911	No. 6	¾	100
¤35912	No. 6	1	100
¤35913	No. 6	1¼	100
¤35914	No. 6	1½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35920	No. 8	½	100
35921	No. 8	¾	100
35922	No. 8	1	100
35923	No. 8	1¼	100
35924	No. 8	1½	100
¤35926	No. 8	2	100
¤35928	No. 8	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
35933	No. 10	1	100
35934	No. 10	1¼	100
¤35935	No. 10	1½	50
¤35937	No. 10	2	50
¤35938	No. 10	2½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤35942	No. 12	1¼	100
¤35943	No. 12	1½	50
¤35945	No. 12	2	50
¤35947	No. 12	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
35948	No. 14	1	50

Wood Screws

Round Head Square Drive - ✣Canada Only



- Case hardened
- Drill point
- Double lead thread for faster wood penetration
- Greater holding power in all types of wood and most manufactured boards

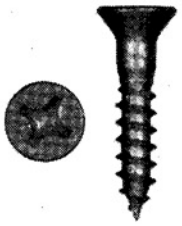
Part No.	Dia. (In.)	Length (In.)	Unit
✣50131	4	3/8	100
✣50132	4	½	100
✣50133	4	5/8	100
✣50134	4	¾	100
✣C68635	4	1	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✣C68636	5	3/8	100
✣C68637	5	½	100
✣C68638	5	5/8	100
✣50139	5	¾	100
✣C68640	5	1	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✣50145	6	3/8	100
✣50146	6	½	100
✣50147	6	5/8	100
✣50148	6	¾	100
✣C68646	6	7/8	100
✣50150	6	1	100
✣50151	6	1¼	100
✣50152	6	1½	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✣50153	7	½	100
✣50155	7	¾	100
✣50157	7	1	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✣C68650	8	3/8	100
✣50160	8	½	100
✣50161	8	5/8	100
✣50162	8	¾	100
✣C68654	8	7/8	100
✣50164	8	1	100
✣50165	8	1¼	100
✣50166	8	1½	100
✣50167	8	1¾	50
✣50168	8	2	50
✣50170	8	2½	50
✣C67547	8	3	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✣C68655	9	¾	100
✣C68656	10	3/8	100
✣50180	10	½	100
✣50181	10	5/8	100
✣50182	10	¾	100
✣50184	10	1	100
✣50185	10	1¼	100
✣50186	10	1½	100
✣50187	10	1¾	50
✣50188	10	2	50
✣C67553	10	2¼	100
✣50190	10	2½	50
✣50191	10	3	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✣50193	12	½	100
✣50194	12	5/8	100
✣C68662	12	¾	100
✣50195	12	1	100
✣50196	12	1¼	100
✣50197	12	1½	100
✣50199	12	2	100
✣50201	12	2½	50
✣C67562	12	3	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✣C68664	14	5/8	100
✣C68665	14	¾	100
✣50204	14	1	100
✣C68667	14	1¼	100
✣50206	14	1½	100
✣50208	14	2	100
✣50210	14	2½	100
✣50211	14	3	50

✣Part numbers available in Canada only.

Flat Head

Wood Screws

Phillips Flat Head



- Meets ANSI/ASME B18.6.1 specifications
- Low carbon steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
35635	No. 3	½	100
35636	No. 3	¾	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35640	No. 4	3/8	100
35642	No. 4	½	100
KP86370	No. 4	¾	100
KP86371	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35657	No. 5	½	100

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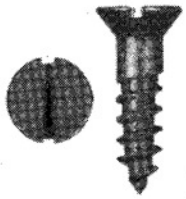
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Wood/Lag/Drywall Screws

Continued from previous page

Part No.	Dia.	Length (In.)	Unit
35659	No. 6	½	100
35660	No. 6	¾	100
35661	No. 6	1	100
35661-11/4	No. 6	1¼	100
35662	No. 6	1½	100
KP86378	No. 6	1¾	100
KP86379	No. 6	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35701	No. 7	½	100
KP86381	No. 7	¾	100
KP86382	No. 7	1	100
35703	No. 7	1½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35663	No. 8	½	100
35664	No. 8	¾	100
35665	No. 8	1	100
35666	No. 8	1¼	100
35667	No. 8	1½	100
35665-13/4	No. 8	1¾	100
35668	No. 8	2	100
35669	No. 8	2½	100
35670	No. 8	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
KP86395	No. 10	½	100
35674-3/4	No. 10	¾	50
35673	No. 10	1	100
35674	No. 10	1¼	100
35675	No. 10	1½	50
35673-13/4	No. 10	1¾	50
35676	No. 10	2	50
35676-21/4	No. 10	2¼	50
35677	No. 10	2½	50
35678	No. 10	3	50
35678-31/2	No. 10	3½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
35679	No. 12	¾	50
35680	No. 12	1	50
35680-11/4	No. 12	1¼	50
35681	No. 12	1½	50
KP86396	No. 12	1¾	100
35682	No. 12	2	50
35683	No. 12	2½	50
35684	No. 12	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
C90624	No. 14	1	100
35686	No. 14	1½	50
KP86397	No. 14	1¾	100
35687	No. 14	2	50
KP76342	No. 14	2½	100
35688	No. 14	3	50

Wood Screws
Slotted Flat Head



- Meets ANSI/ASME B18.6.1 specifications
- Low carbon steel
- Zinc plated

Part No.	Dia.	Length (In.)	Unit
35509	No. 4	⅜	100
35510	No. 4	½	100
35512	No. 4	¾	100
35514	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35529	No. 6	½	100
35531	No. 6	¾	100
35533	No. 6	1	100
¤35534	No. 6	1¼	100
35535	No. 6	1½	100
¤35536	No. 6	1¾	100
¤35537	No. 6	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35551	No. 8	½	100
35553	No. 8	¾	100
35555	No. 8	1	100
35556	No. 8	1¼	100
35557	No. 8	1½	100
35558	No. 8	1¾	100
35559	No. 8	2	100
¤35561	No. 8	2½	50
¤35562	No. 8	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
35577	No. 10	½	100
35579	No. 10	¾	100
35581	No. 10	1	100
35582	No. 10	1¼	100
35583	No. 10	1½	50
35584	No. 10	1¾	50
35585	No. 10	2	50
35586	No. 10	2½	50
35587	No. 10	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
35590	No. 12	¾	100
35592	No. 12	1	100
35593	No. 12	1¼	100
35594	No. 12	1½	50
35595	No. 12	1¾	50
35596	No. 12	2	50
¤35597	No. 12	2½	50
¤35598	No. 12	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
35601	No. 14	¾	50
35603	No. 14	1	50
KP60385	No.14	1¼	100
35605	No. 14	1½	50
35606	No. 14	1¾	50
35607	No. 14	2	50
35608	No. 14	2½	50
35609	No. 14	3	50
¤35610	No. 14	3½	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤35615	No. 16	1	50
35618	No. 16	2	50
35619	No. 16	2½	50

Wood Screws
Flat Head Square Drive



- Plain finish with dry lubricant
- No pre-drilling required

Part No.	Dia.	Length (In.)	Unit
KP80290	No. 8	1	50
KP80291	No. 8	1¼	50
KP80292	No. 8	1½	50
KP80293	No. 8	1¾	50
KP80294	No. 8	2	50
KP80295	No. 8	2½	50
KP80296	No. 8	3	50

Wood Screws
Flat Head Square Drive - ✦Canada Only



- Case hardened
- Drill point
- Double lead thread for faster wood penetration
- Greater holding power in all types of wood and most manufactured boards

Part No.	Dia.	Length (In.)	Unit
✦50235	No. 4	⅜	100
✦50236	No. 4	½	100
✦50237	No. 4	⅝	100
✦50238	No. 4	¾	100
✦50240	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C68596	No. 5	⅜	100
✦50242	No. 5	½	100
✦50243	No. 5	⅝	100
✦50244	No. 5	¾	100
✦50245	No. 5	1	100
✦C68601	No. 5	1¼	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦C67493	No. 6	⅜	100
✦50250	No. 6	½	100
✦50251	No. 6	⅝	100
✦50252	No. 6	¾	100
✦50254	No. 6	1	100
✦50255	No. 6	1¼	100
✦50256	No. 6	1½	100
✦C68603	No. 6	1¾	100
✦C68604	No. 6	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦50257	No. 7	½	100
✦50258	No. 7	⅝	100
✦50259	No. 7	¾	100
✦50261	No. 7	1	100
✦50262	No. 7	1¼	100
✦50263	No. 7	1½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✦50264	No. 8	½	100
✦50265	No. 8	⅝	100
✦50266	No. 8	¾	100
✦C68613	No. 8	⅞	100
✦50268	No. 8	1	100
✦50269	No. 8	1¼	100
✦50270	No. 8	1½	100

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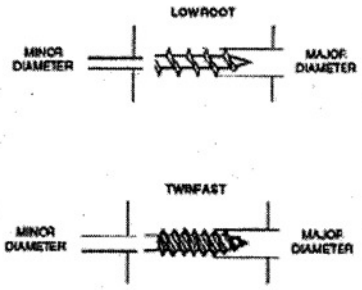
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Part No.	Dia.	Length (In.)	Unit
✤50271	No. 8	1¾	50
✤50272	No. 8	2	50
✤50273	No. 8	2¼	50
✤50274	No. 8	2½	50
✤50275	No. 8	3	50
✤50276	No. 8	3½	50
✤C68615	No. 8	4	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✤50277	No. 9	¾	100
✤50279	No. 9	1	100
✤50280	No. 9	1¼	100
✤50281	No. 9	1½	100
✤C68620	No. 9	1¾	100
✤50283	No. 9	2	50
✤50284	No. 9	2½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
✤C68624	No. 10	½	100
✤50285	No. 10	⅝	100
✤50286	No. 10	¾	100
✤50288	No. 10	1	100
✤50289	No. 10	1¼	100
✤50290	No. 10	1½	100
✤50291	No. 10	1¾	50
✤50292	No. 10	2	50
✤50293	No. 10	2¼	50
✤50294	No. 10	2½	50
✤50295	No. 10	3	50
✤50296	No. 10	3½	50
✤C67521	No. 10	4	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
✤C68626	No. 12	¾	100
✤50299	No. 12	1	100
✤50300	No. 12	1¼	100
✤50301	No. 12	1½	100
✤50302	No. 12	1¾	100
✤50303	No. 12	2	100
✤50304	No. 12	2¼	50
✤50305	No. 12	2½	50
✤50306	No. 12	3	50
✤50307	No. 12	3½	50
✤50308	No. 12	4	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
✤C68627	No. 14	1	100
✤C68628	No. 14	1¼	100
✤50310	No. 14	1½	100
✤C68629	No. 14	1¾	100
✤50312	No. 14	2	100
✤50314	No. 14	2½	100
✤50315	No. 14	3	50
✤50316	No. 14	3½	50
✤50317	No. 14	4	50

✤Part numbers available in Canada only.

Low Root Wood Screws
Canada Only



- Fewer threads per inch than standard twinfast screws
- Ideal for particle board applications

Square Socket Flat Head
Zinc plating

Part No.	Dia. (In.)	Length (In.)	Unit
✤CD556191	No. 6	⅝	100
✤CD556191-2	No. 6	⅝	4000
✤CD5562190	No. 8	1	200
✤CD556231	No. 8	1½	100
✤CD5562640	No. 8	2	800
✤CD556288	No. 8	2	100
✤CD5562880	No. 8	2	800
✤CD556296-2	No. 8	2½	600
✤CD5562960	No. 8	2½	600
✤CD556310-2	No. 8	3	400
✤CD5563100	No. 8	3	400

✤Canada only

Square Socket Round Head Plain Finish

Part No.	Dia. (In.)	Length (In.)	Unit
✤CD5562180	No. 8	1	2000
✤CD556218-2	No. 8	1	2000
✤CD5562410	No. 8	1¼	1500
✤CD556241-2	No. 8	1¼	1500
✤CD5562300	No. 8	1½	1300
✤CD556230	No. 8	1½	100
✤CD556230-2	No. 8	1½	1300
✤CD556287	No. 8	2	100
✤CD5562870	No. 8	2	800
✤CD556287-2	No. 8	2	800
✤CD556295	No. 8	2½	100
✤CD5562950	No. 8	2½	600
✤CD556295-2	No. 8	2½	600
✤CD5563090	No. 8	3	400
✤CD556309-2	No. 8	3	400

✤Canada only

Decking Screws

Decking Screws – Dual Drive Flat Head



These unique screws have a square/phillips drive flat head with coarse thread. Ideal for decks, shipping docks, fencing and wood maintenance items.

- Square drive bits included with 5 lb. boxes
- Galvanized plating.

Part No.	Size (In.)	Length (In.)	Unit	5lb. Box
C29301	No. 8	1	100	C29308
C29302	No. 8	1¼	100	
C29303	No. 8	1¾	100	
C29304	No. 8	2	100	C29309
C29305	No. 8	2½	100	C29310
C29306	No. 8	3	100	C29311

Square Drive Flat Head Decking Screws – ✤Canada Only

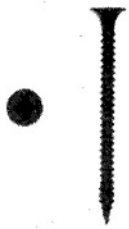


- Powder coated
- Corrosion resistant

Green Part No.	Brown Part No.	Grey Part No.	Dia.	Length (In.)	Unit
✤C68914	✤C68920	✤C68926	8	1½	100
✤C68915	✤C68921	✤C68927	8	1¾	100
✤C68916	✤C68922	✤C68928	8	2	100
✤C68917	✤C68923	✤C68929	8	2½	100
✤C68918	✤C68924	✤C68930	8	3	100
✤C68919	✤C68925	✤C68931	10	3½	100

Drywall Screws

Drywall Screws
Phillips Bugle Head



- Low carbon steel
- Part nos. 35480 — 35487
  - — Extra sharp point
  - — For attaching drywall to metal studs from 25 gauge to 20 gauge

Continued on next page

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Wood/Lag/Drywall Screws

Continued from previous page

Coarse Thread Dacrotized Finish

Part No.	Dia.	Length (In.)	Unit
35460	No. 6	1	100
35461	No. 6	1⅛	100
35462	No. 6	1¼	100
35463	No. 6	1⅜	100
*KP84233	No. 6	1⅝	100
35464	No. 6	2	100
35465	No. 6	2¼	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
*KP84234	No. 7	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35466	No. 8	2½	100
*KP84235	No. 8	2½	100
35467	No. 8	3	100
*KP84236	No. 8	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
KP84237	No. 10	3½	100

*Special synthetic coating

Coarse Thread Black Finish

Part No.	Dia.	Length (In.)	Unit
35470	No. 6	1	100
35471	No. 6	1⅛	100
35472	No. 6	1¼	100
35473	No. 6	1⅜	100
35474	No. 6	2	100
35475	No. 6	2¼	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35476	No. 8	2½	100
35477	No. 8	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
KP9053	No. 10	3¾	100
KP9054	No. 10	4½	100

Fine Thread Black Phosphate Finish

Part No.	Dia.	Length (In.)	Unit
35480	No. 6	1	100
35481	No. 6	1⅛	100
35482	No. 6	1¼	100
35483	No. 6	1⅜	100
35484	No. 6	2	100
35485	No. 6	2¼	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
35486	No. 8	2½	100
35487	No. 8	3	100

Bulk Pack - Fine Thread - Black

Part No.	Dia.	Length (In.)	Unit
C95933	No. 6	1	5 lb
C97340	No. 6	1	25 lb
C95936	No. 6	1⅜	5 lb
C97343	No. 6	1⅜	25 lb
C95937	No. 6	2	5 lb
C97344	No. 6	2	25 lb
Part No.	**Dia.**	**Length (In.)**	**Unit**
C95939	No. 8	2½	5 lb
C95940	No. 8	3	5 lb
C97347	No. 8	3	25 lb

Square Drive Flat Head Particle Board Screws – ⌖Canada Only



- Zinc plating
- Corrosion resistant

Part No.	Dia.	Length (In.)	Unit
⌖C68932	No. 6	⅝	100
⌖C68933	No. 6	¾	100
⌖C68934	No. 8	1	100
⌖C68935	No. 8	1 - ¼	100
⌖C68936	No. 8	1 - ½	100
⌖C68937	No. 8	1 - ¾	100
⌖C68938	No. 8	2	100
⌖C68939	No. 8	2 - ½	100
⌖C68940	No. 8	3	100

Chipboard Screws

Phillips Flat Head Chipboard Screws With Nibs and Type 17 Auger Point



- Black oxide plating
- Nibs under the head of the screw bite into the material which resists material slippage during pull-out or vibration
- Type 17 auger point removes material during driving which helps provide cleaner and faster assembly operation
- Use in chipboard, drywall, fiberboard, and wood

Part No.	Dia. (In.)	Length (In.)	Unit
989025-1	No. 8 x 1	1	100
989025-2	No. 8 x 1	1	500
989026-1	No. 8 x 1¼	1¼	100
989026-2	No. 8 x 1¼	1¼	500
989027-1	No. 8 x 1½	1½	100
989027-2	No. 8 x 1½	1½	500
989028-1	No. 8 x 1¾	1¾	100
989028-2	No. 8 x 1¾	1¾	500
989029-1	No. 8 x 2	2	100
989029-2	No. 8 x 2	2	500
989032-1	No. 8 x 2¼	2¼	100
989032-2	No. 8 x 2¼	2¼	500
989030-1	No. 8 x 2½	2½	100
989030-2	No. 8 x 2½	2½	500
989031-1	No. 8 x 3	3	100
989031-2	No. 8 x 3	3	500

Floorboard Screws
Torx Pan Head - Zinc Plated



- Use in trailer applications
- Zinc plated
- Torx drive
- Type F thread cutting point

Part No.	Dia. TPI	Length (In.)	Torx Size	Unit
34252	5/16-18	1¼	T40	200
34253	5/16-18	2	T40	250

Accessory Mounting Screws

Phillips Bugle Head with Hi-Lo Threads



- For use on drywall, wood and laminates
- Black finish
- Hi-Lo thread advances the screw quickly
- Sharp S point dimples the steel adding rigidity and greater holding strength

Part No.	Dia.	Length (In.)	Drywall Thickness	Unit
KP76344	No. 8	1	⅜-⅝	100
KP76345	No. 8	1⅛	⅜-¾	100
KP76346	No. 8	1¼	⅜-⅞	100
KP76347	No. 8	1⅝	½-1¼	100
KP76348	No. 8	2¼	1 1/16-1⅞	100
KP83278	No. 8	2½	1⅜-2¼	100
KP76349	No. 8	3	1⅞-2⅝	100
Part No.	**Dia.**	**Length (In.)**	**Drywall Thickness**	**Unit**
*KP76350	⅜	7/16		100

* Pan head style used to fasten metal studs to metal runners

Phillips Bugle Head with S-12 Drill Point



- S-12 point is designed to penetrate heavy gauge metal
- Fine Thread
- Black finish

Part No.	Dia.	Length (In.)	Drywall Thickness	Unit
KP76351	No. 6	1	⅜-½	100
KP76352	No. 6	1¼	⅜-⅞	100
KP76353	No. 6	1⅝	⅜-1¼	100
KP83279	No. 6	1⅞	⅜-1½	100
Part No.	**Dia.**	**Length (In.)**	**Drywall Thickness**	**Unit**
KP76354	No. 8	3	1⅞-2½	100

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Bowmalloy

Bowmalloy® Hex Nuts



- Made in USA
- **Medium carbon through-hardened steel** gives excellent assembly performance with Bowmalloy® cap screws. Eliminates "stripping-out" caused by inferior grade nuts.
- **Unichrome™ plating** provides corrosion resistance that is superior to commercial zinc plating.
- **ASME Class UN-2B thread fit** assures fully formed, precision-fitting threads that provide complete and continuous clamping force.
- **Chamfered first thread** allows easy thread engagement.
- **Smooth bearing surface** distributes load evenly for consistent clamping.
- **High design** gives additional threads and more wrenching surface for positive clamping properties and slip-free installation.
- **Concentric circle grain structure** gives added strength to prevent cracking and splitting for safe, long service life.
- **Use with Bowmalloy® cap screws.**
- UNC (USS) or UNF (SAE)
- Exceeds SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 180,000 psi proof load
- Use with Bowmalloy® cap screws

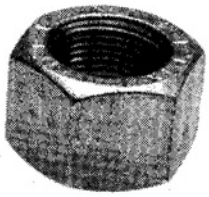
UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
36601	¼-20	36611	¼-28	100
MP36601	¼-20	MP36611	¼-28	50
36602	5/16-18	36612	5/16-24	100
MP36602	5/16-18	MP36612	5/16-24	50
36603	⅜-16	36613	⅜-24	100
MP36603	⅜-16	MP36613	⅜-24	50
36604	7/16-14	36614	7/16-20	50
MP36604	7/16-14	MP36614	7/16-20	25
36605	½-13	36615	½-20	50
MP36605	½-13	MP36615	½-20	25
36606	9/16-12	36616	9/16-18	50
MP36606	9/16-12	MP36616	9/16-18	25
36607	⅝-11	36617	⅝-18	50
MP36607	⅝-11	MP36617	⅝-18	25
36608	¾-10	36618	¾-16	25
36609	⅞-9	36619	⅞-14	25
36610	1-8	36620‡	1-14	25
36610-11/8	1⅛-7	36620-11/8	1⅛-12	10
36610-11/4	1¼-7	36620-11/4	1¼-12	10
36610-11/2	1½-6	36620-11/2	1½-12	10
36610-13/4	1¾-5	*	*	5
36610-2	2-4-½	36620-2	2-12	5

Hex Head Cap Screws & Hex Nuts Technical Data

Hex Head Cap Screws Size (In.)	Hex Head Cap Screws Wrench Size Width Across Flats (In.)	Hex Nuts & Bowma-Grip® Wrench Size Width Across Flats (In.)	Hex Nuts Thickness (In.) Max.	Hex Nuts Thickness (In.) Min.	Bowma-Grip® Hex Lock Nuts Thickness (In.) Max.	Bowma-Grip® Hex Lock Nuts Thickness (In.) Min
¼	7/16	7/16	0.226	0.212	0.226	0.212
5/16	½	½	0.273	0.258	0.273	0.258
⅜	9/16	9/16	0.337	0.320	0.337	0.320
7/16	⅝	11/16	0.385	0.365	0.385	0.365
½	¾	¾	0.448	.0427	0.448	0.427
9/16	13/16	⅞	0.496	0.473	0.496	0.473
⅝	15/16	15/16	0.559	0.535	0.559	0.535
¾	1⅛	1⅛	0.665	0.617	0.734	0.710
⅞	15/16	15/16	0.776	0.724	0.859	0.833
1	1½	1½	0.887	0.831	0.984	0.956
1⅛	111/16	111/16	0.999	0.939	1.155	1.095
1¼	1⅞	1⅞	1.094	1.030	1.282	1.218
1½	2¼	2¼	1.317	1.245	1.536	1.464

Dura-Torq

Dura-Torq® Thick Hex Nuts



Dura-Torq Hex Nuts are thicker than standard nuts and are designed to be used specifically with stronger than Grade 8 Cap Screws. The thicker nut provides a larger wrenching area to eliminate wrench slippage. The cad & wax plating provides for an extremely consistent torque requirement which is significantly lower than required for a standard zinc plating.

Specifications:

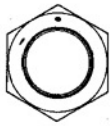
- Made in USA
- 180,000 psi proof load
- Cad & Wax plating

Part No.	Dia. TPI	UNC/UNF	Flats (In.)	Thick (In.)	Unit
C92448	¼-20	UNC	7/16	19/64	100
C92449	¼-28	UNF	7/16	19/64	100
C92450	5/16-18	UNC	½	21/64	100
C92451	5/16-24	UNF	½	21/64	100
C92452	⅜-16	UNC	9/16	25/64	100
C92453	⅜-24	UNF	9/16	25/64	100
C92454	7/16-14	UNC	11/16	7/16	50
C92455	7/16-20	UNF	11/16	7/16	50
C92456	½-13	UNC	¾	33/64	50
C92457	½-20	UNF	¾	33/64	50
C92458	9/16-12	UNC	⅞	37/64	25
C92459	9/16-18	UNF	⅞	37/64	25
C92460	⅝-11	UNC	15/16	21/32	25
C92461	⅝-18	UNF	15/16	21/32	25
C92462	¾-10	UNC	1 - ⅛	49/64	25
C92463	¾-16	UNF	1 - ⅛	49/64	25
C92464	⅞-9	UNC	15/16	⅞	10
C92465	⅞-14	UNF	15/16	⅞	10
C92466	1-8	UNC	1½	1 1/64	10
C92467	1-14	UNF	1½	1 1/64	10

Grade 8

Grade 8 Finished Hex Nuts

Made in U.S.A.





- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 150,000 psi proof load
- Designed for use with Grade 8 cap screws

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
39560	¼-20	39571	¼-28	100
39562	5/16-18	39572	5/16-24	100
39563	⅜-16	39573	⅜-24	100
39564	7/16-14	39574	7/16-20	50
39565	½-13	39575	½-20	50
39566	9/16-12	39576	9/16-18	50
39567	⅝-11	39577	⅝-18	50
39568	¾-10	39578	¾-16	25
39569	⅞-9	39579	⅞-14	25
39570	1-8	39580	1-14	25
C714020	1⅛-7	C714025	1⅛-12	10
C714022	1¼-7	C714027	1¼-12	10

Grade 8 Hex Nuts - Non-Plated

Made in U.S.A.



Grade 8 Hex Nuts are used to be with Grade 8 Hex Head Cap Screws, Grade 8 Plow Bolts and other alloy bolts.

Specifications:

- 150,000 psi proof load
- Black natural finish

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C767000	¼ - 20	C767001	¼ -28	100
C767002	5/16 - 18	C767003	5/16 - 24	100
C767004	⅜ - 16	C767005	⅜ - 24	100
C767006	⅞ - 14	C767007	7/16 - 20	50
C767008	½ - 13	C767009	½ - 20	50
C767010	9/16 - 12	C767011	9/16 - 18	50
C767012	⅝ - 11	C767013	⅝ - 18	50
C767014	¾ - 10	C767015	¾ - 16	25
C767016	⅞ - 9	C767017	⅞ - 14	25
C767018	1 - 8	C767019	1 - 14	10
C767020	1 - 1⅛ - 7	C767021	1 -1⅛ - 12	10
C767022	1 - ¼ - 7	C767023	1 - ¼ -12	10
C767024	1 - ½ - 6			10

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Hex Nuts

Grade 8 Finished Hex Nuts



- **High strength, medium carbon, quenched & tempered steel** gives superior assembly performance with Bowma-Torq®/Grade 8 cap screws. Eliminates "stripping out" caused by inferior grade nuts.
- **Gold unichrome™ plating** provides corrosion resistance that is superior to standard industrial platings.
- **ANSI class 2B thread fit** assures fully formed, precision fitting threads that provide complete and continuous clamping force.
- **Meets association specifications**
- **ANSI 18.2.2**
- **SAE J995 Grade 8**
- **Chamfered first thread** for proper seating and easy thread engagement.
- **Precision double chamfered hex** prevents interference of parent material or washer with bearing surface without limiting wrenching area.
- **Smooth bearing surface** distributes load evenly for constant, consistent clamping.
- **Concentric circle grain design** gives added strength to prevent cracking and splitting for safe, long service life.
- **Recommended for multi-purpose use** with Bowma-Torq®/ Grade 8 cap screws and other fasteners rated SAE Grade 8.

BOWMAN Gold Unichrome PLATING™

- UNC (USS) or UNF (SAE)
- Exceeds SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 150,000 psi proof load

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
39601	¼-20	39611	¼-28	100
MP39601	¼-20	MP39611	¼-28	50
39602	5⁄16-18	39612	5⁄16-24	100
MP39602	5⁄16-18	MP39612	5⁄16-24	50
39603	⅜-16	39613	⅜-24	100
MP39603	⅜-16	MP39613	⅜-24	50
39604	7⁄16-14	39614	7⁄16-20	50
MP39604	7⁄16-14	MP39614	7⁄16-20	25
39605	½-13	39615	½-20	50
MP39605	½-13	MP39615	½-20	25
39606	9⁄16-12	39616	9⁄16-18	50
MP39606	9⁄16-12	MP39616	9⁄16-18	25
39607	⅝-11	39617	⅝-18	50
MP39607	⅝-11	MP39617	⅝-18	25
39608	¾-10	39618	¾-16	25
39609	⅞-9	39619	⅞-14	25
39610	1-8	39620	1-14	25
39610-11/8	1⅛-7	39620-11/8	1⅛-12	10
39610-11/4	1¼-7	39620-11/4	1¼-12	10

Grade 8 Finished Hex Nuts — Non-Plated



- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 8 specifications
- Medium carbon steel
- Through-hardened
- 150,000 psi proof load

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
99780	¼ - 20	C713001	¼ - 28	100
99781	5⁄16 - 18	C713003	5⁄16 - 24	100
99782	⅜ - 16	99797	⅜ - 24	100
99783	7⁄16 - 14	C713007	7⁄16 - 20	50
99784	½ - 13	99799	½ - 20	50
99785	9⁄16 - 12	C713011	9⁄16 - 18	50
99786	⅝ - 11	99801	⅝ - 18	50
99787	¾ - 10	99802	¾ - 16	25
99788	⅞ - 9	99803	⅞ - 14	25
99789	1 - 8	99804	1 - 14	10
99790	1⅛ - 7	C713021	1⅛ - 12	10
99791	1¼ - 7	C713023	1¼ - 12	10
KP26423	1⅜-6	KP26447	1⅜-12	2
99792	1½ - 6	*		10
*		KP26448	1½-12	2
KP26425	1¾-5	KP26449	1¾-12	1
KP26426	2-4-½	KP26450	2-12	1

* Item not available

Grade 8 Finished Hex High Nuts



- UNF (SAE)
- Meets SAE Grade 8 requirements
- Medium carbon steel
- Through-hardened

Part No.	Size (In.)	TPI	Unit
C14066	⅜	24	25
C14067	7⁄16	20	25
34244	½	20	25
34245	9⁄16	18	25
34246	⅝	18	25
34247	¾	16	25
34247-1	⅞	14	10
34248	1	14	10
34250	1⅛	12	10

Kar-Tite

Kar-Tite Grade 8 Hex Nuts



- Made in USA
- Meets SAE J995 proof load specification
- 150,000 PSI proof load
- Kar Grade 8 nuts stamped with Kar name and size for easy identification
- Zinc clear Unichrome plating

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP86159	¼-20	KP86169	¼-28	100
KP86159-2	¼-20			250
KP86160	5⁄16-18	KP86170	5⁄16-24	100
KP86160-2	5⁄16-18			250
KP86161	⅜-16	KP86171	⅜-24	100
KP86161-2	⅜-16			250
KP86162	7⁄16-14	KP86172	7⁄16-20	50
KP86162-2	7⁄16-14			100
KP86163	½-13	KP86173	½-20	50
KP86163-2	½-13			100
KP86164	9⁄16-12	KP86174	9⁄16-18	50
KP86165	⅝-11	KP86175	⅝-18	25
KP86165-2	⅝-11			100
KP86166	¾-10	KP86176	¾-16	25
KP86167	⅞-9	KP86177	⅞-14	25
KP86168	1-8	KP86178	1-14	25

Grade 8 Hex Nuts — Zinc Clear — Import



- Meets SAE J995 proof load specification
- 150,000 PSI proof load
- Zinc clear Unichrome plating

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP80530	¼-20	KP80542	¼-28	100
KP80530-2	¼-20			250
KP80531	5⁄16-18	KP80543	5⁄16-24	100
KP80531-2	5⁄16-18			250
KP80532	⅜-16	KP80544	⅜-24	100
KP80532-2	⅜-16			250
KP80533	7⁄16-14	KP80545	7⁄16-20	50
KP80533-2	7⁄16-14			100
KP80534	½-13	KP80546	½-20	50
KP80534-2	½-13			100
KP80535	9⁄16-12	KP80547	9⁄16-18	50
KP80536	⅝-11	KP80548	⅝-18	25
KP80536-2	⅝-11			100
KP80537	¾-10	KP80549	¾-16	25
KP80538	⅞-9	KP80550	⅞-14	25
KP80539	1-8	KP80551	1-14	25
KP80540	1⅛-7	KP80552	1⅛-12	10
KP80541	1¼-7	KP80553	1¼-12	10
♣CD557183	1½-6	*	*	10

♣Canada only

Continued on next page

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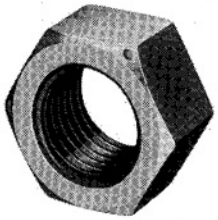
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Dimensions of Kar-Tite Grade 8 Hex Nuts

Bolt Size	Flats	Height
¼	7/16	7/32
5/16	½	17/64
3/8	9/16	21/64
7/16	11/16	3/8
½	¾	7/16
9/16	7/8	31/64
5/8	15/16	35/64
¾	1⅛	41/64
⅞	1 5/16	¾
1	1½	55/64
1⅛	1 11/16	31/32
1¼	1⅞	1 1/16
1½	2¼	1 5/16

Grade 5

Grade 5 Finished Hex Nuts



- Made in USA
- UNC or UNF
- Meets SAE J995 Grade 5 Specifications
- Designed for use with Grade 5 Cap Screws
- Zinc Clear Plating
- Made in U.S.A.

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
33000	¼-20	33013	¼-18	100
33001	5/16-18	33014	5/16-24	100
33002	3/8-16	33015	3/8-24	100
33003	7/16-14	33016	7/16-20	50
33004	½-13	33017	½-20	50
33005	9/16-12	33018	9/16-18	50
33006	5/8-11	33019	5/8-18	50
33007	¾-10	33020	¾-16	25
33008	⅞-9	33021	⅞-14	25
33009	1-8	33022	1-14	25
C712020	1⅛-7	C712021	1⅛-12	10
C712022	1¼-7	C712023	1¼-12	10

Grade 5 Hex Nuts - Non-Plated



Grade 5 Hex Nuts are to be used with Grade 5 Hex Head Cap Screws, Grade 5 Plow Bolts and other medium carbon bolts.

Specifications:

- Made in USA
- 120,000 psi proof load for diameters 1 in. and smaller; 105,000 psi proof load for diameters over 1 in.
- Black natural finish

Part No.	Size (In.)	Unit
C768000	¼-20	100
C768002	5/16-18	100
C768004	3/8-16	100
C768006	7/16-14	50
C768008	½-13	50
C768010	9/16-12	50
C768012	5/8-11	50
C768014	¾-10	25
C768016	⅞-9	25
C768018	1-8	10
C768020	1⅛-7	10
C768022	1¼-7	10

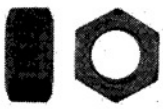
Grade 5 Finished Hex Nuts



- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 5 Specifications
- Carbon steel
- Designed for use with Grade 5 cap screws

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
31201	¼-20	31211	¼-28	200
MP31201	¼-20	MP31211	¼-28	50
31202	5/16-18	31212	5/16-24	200
MP31202	5/16-18	MP31212	5/16-24	50
31203	3/8-16	31213	3/8-24	200
MP31203	3/8-16	MP31213	3/8-24	50
31204	7/16-14	31214	7/16-20	100
MP31204	7/16-14	MP31214	7/16-20	25
31205	½-13	31215	½-20	50
MP31205	½-13	MP31215	½-20	25
31206	9/16-12	31216	9/16-18	50
MP31206	9/16-12	MP31216	9/16-18	25
31207	5/8-11	31217	5/8-18	50
MP31207	5/8-11	MP31217	5/8-18	25
31208	¾-10	31218	¾-16	50
MP31208	¾-10	MP31218	¾-16	25
31209	⅞-9	31219	⅞-14	25
31210	1-8	31220	1-14	25
31210-11/8	1⅛-7	31220-11/8	1⅛-12	10
31210-11/4	1¼-7	31220-11/4	1¼-12	10
31210-11/2	1½-6	31220-11/2	1½-12	10

Grade 5 Finished Hex Nuts — Non-Plated



- UNC (USS) or UNF (SAE)
- Meets SAE J995 Grade 5 specifications
- Carbon steel
- Designed for use with Grade 5 cap screws
- Through-hardened

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
96780	¼-20	96795	¼-28	100
96781	5/16-18	96796	5/16-24	100
96782	3/8-16	96797	3/8-24	100
96783	7/16-14	96798	7/16-20	50
96784	½-13	96799	½-20	50
96785	9/16-12	96800	9/16-18	50
96786	5/8-11	96801	5/8-18	50
96787	¾-10	96802	¾-16	25
96788	⅞-9	96803	⅞-14	25
96789	1-8	96804	1-14	25
96790	1⅛-7	¤96805-11/8	1⅛-12	10
96791	1¼-7	¤96805-11/4	1¼-12	10
*	1⅜-6	¤96805-13/8	1⅜-12	1
96792	1½-6	¤96805-11/2	1½-12	10
*	1¾-5	¤96805-13/4	1¾-12	1
¤99793-2	2-4-½	*	-	10

Grade 2

Machine Screw/Grade 2 Hex Nuts



- Machine screw/Grade 2 hex nuts are to be used with machine screws, Grade 2 capscrews, and other low carbon bolts
- Zinc - clear plating

Part No.	Dia.-TPI	UNC/UNF	Flats (In.)	Thick (In.)	Unit
KP77946	2-56	UNC	3/16	1/16	100
31242	4-40	UNC	¼	7/64	100
31243	5-40	UNC	5/16	7/64	100
31244	6-32	UNC	5/16	7/64	100
31253	6-40	UNF	5/16	7/64	100
31245	8-32	UNC	11/32	1/8	100
31254	8-36	UNF	11/32	1/8	100
31246	10-24	UNC	3/8	1/8	100
31255	10-32	UNF	3/8	1/8	100
31247	12-24	UNC	7/16	5/32	100
31248	¼-20	UNC	7/16	7/32	100
31257	¼-28	UNF	7/16	7/32	100
C6068	5/16-18	UNC	½	17/64	100
C6067	5/16-24	UNF	½	17/64	100
C6070	3/8-16	UNC	9/16	21/64	100
¤C6069	3/8-24	UNF	9/16	21/64	100
C6072	7/16-14	UNC	11/16	3/8	100
¤C6071	7/16-20	UNF	11/16	3/8	100
C6074	½-13	UNC	¾	7/16	100
¤C6073	½-20	UNF	¾	7/16	100
¤C6076	9/16-12	UNC	⅞	31/64	50
C6078	5/8-11	UNC	15/16	35/64	25
C6080	¾-10	UNC	1⅛	41/64	25
✦CD556010	1-8	UNC	1½	55/64	20

✦Canada only

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Hex Nuts

Black Finish Grade 2 Finished Hex Nuts



- Black finish

UNC Part No.	UNF Part No.	Bolt Size	Across Flats	Height	Unit
✦CD557971	✦CD557973	¼	7/16	7/32	100
✦CD559544	✦CD559545	5/16	½	17/64	100
✦CD559119	✦CD559121	⅜	9/16	21/64	100
✦CD560631	✦CD560632	7/16	11/16	⅜	50
✦CD557367	✦CD557369	½	¾	7/16	50
✦CD561032	✦CD61033	9/16	⅞	31/64	25
✦CD559966	✦CD559969	⅝	15/16	35/64	25
✦CD558926	✦CD558929	¾	1⅛	41/64	20
✦CD560864	✦CD560865	⅞	1 5/16	¾	20
✦CD556833	✦CD556835	1	1½	55/64	20
✦CD557324	✦CD557325	1⅛	1 11/16	31/32	10
✦CD557220	✦CD557221	1¼	1⅞	1 1/16	10
✦CD557954	✦CD557955	1⅜	2 1/16	1 11/64	10
✦CD557179	✦CD557182	1½	2¼	1 9/32	10
✦CD557951	✦CD557952*	1¾	2⅝	1½	10
✦CD558725	✦CD558727	2	3	1 23/32	10

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*Unit = 6

Grade 2 Galvanized Hex Nuts -



- Hot dip galvanized hex nuts to be used with galvanised Carriage Bolts

Part No.	Dia. (In.)	Flats (In.)	Thick (In.)	Unit
✦C97622	¼ - 20	7/16	7/32	100
✦C97623	5/16 - 18	½	17/64	100
✦C97624	⅜ - 16	9/16	21/64	100
✦C97625	½ - 13	¾	7/16	100

Hex Jam Nuts



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
32271	¼-20	32281	¼-28	50
32272	5/16-18	32282	5/16-24	50
32273	⅜-16	32283	⅜-24	50
32274	7/16-14	32284	7/16-20	50
32275	½-13	32285	½-20	50
32276	9/16-12	32286	9/16-18	25
32277	⅝-11	32287	⅝-18	25
32278	¾-10	32288	¾-16	25
32279	⅞-9	32289	⅞-14	25
32280	1-8	32290	1-14	25

Hex Jam Nuts
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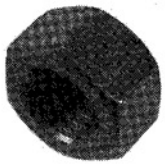


- Plain finish
- Jam nuts are thin nuts used under full sized nuts to develop locking action

UNC Part No.	UNF Part No.	Bolt Size	Across Flats	Height	Unit
✦CD557976	✦CD557978	¼	7/16	5/32	100
✦CD559548	✦CD559550	5/16	½	3/16	100
✦CD559123	✦CD559125	⅜	9/16	7/32	100
✦CD560633	✦CD560635	7/16	11/16	¼	50
✦CD557373	✦CD557375	½	¾	5/16	50
✦CD561034	✦CD561035	9/16	⅞	5/16	25
✦CD559973	✦CD559975	⅝	15/16	⅜	25
✦CD558933	✦CD558935	¾	1⅛	27/64	20
✦CD560867	✦CD560869	⅞	1 5/16	27/32	20
✦CD556838	✦CD556840	1	1½	35/64	20
✦CD557326	✦CD557328	1⅛	1 11/16	39/64	10
✦CD557222	✦CD557223	1¼	1⅞	23/32	10
✦CD557185	✦CD557186	1½	2¼	27/32	10

✦Canada only

Automotive Finished Hex Nuts



- Zinc Plating

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP8158	7/16-14	KP8159	7/16-20	50

Dimension of Automotive Hex Nut

Bolt Size	Flats	Height
7/16	⅝	⅜

Heavy Hex / 2H

2H Heavy Hex Nuts



- UNC (USS)
- Meets ASTM A194-2H specifications
- Medium carbon steel
- Through-hardened
- 175,000 psi proof load
- Non-plated
- For ASTM A193-B7, A325 and A490 applications
- Designed to be used with B7 threaded rod stock, part no. series 36665 and B7 studs, part no. series 40596

Part No.	Unit	Bulk Part No.	Unit	Size
36653	50	*	—	¼-20
36654	50	*	—	5/16-18
36655	25	*	—	⅜-16
36655-1	25	*	—	7/16-14
36656	25	36656-B	100	½-13
36656-1	25	*	—	9/16-12
36657	25	36657-B	100	⅝-11
36658	25	36658-B	100	¾-10
36659	25	36659-B	100	⅞-9
36660	10	36660-B	100	1-8
36661	10	36661-B	50	1⅛-8
36661-1	10	*	—	1⅛-7
36662†	10	36662-B	50	1¼-8
36662-1	10	*	—	1¼-7
36663†	5	*	—	1½-8
36664	5	*	—	1½-6

†8UN thread series
NOTE: Part no. 36661 is to be used with threaded rod stock part nos. 36684 and 36695. Part no. 36662 is to be used with part nos. 36685 and 36696. Part no. 36663 is to be used with part no. 36697.
*Item not available

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Heavy Hex Structural Nuts



- UNC (USS)
- Meets ASTM A563 specifications
- Grade C
- Non-plated
- Use with 37000 series structural bolts

Part No.	Size (In.)	TPI	Unit
37045	⅝	11	25
37046	¾	10	25
37047	⅞	9	25

Heavy Hex Nuts

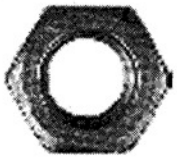


- UNC (USS)
- Low carbon steel
- Zinc plated

Part No.	Size (In.)	TPI	Unit
32291	¼	20	100
32292	5⁄16	18	100
32293	⅜	16	100
32294	7⁄16	14	50
32295	½	13	50
KP32005	9⁄16	12	50
32297	⅝	11	50
32298	¾	10	25
32299	⅞	9	25
32300	1	8	25
KP32010	1⅛	7	10
KP32011	1¼	7	10
KP32012	1½	6	10

Heavy Hex Nuts - Non-Plated

Canada Only



- Conforms to SAE J104 and ANSI B 18.2.2
- Class 2 B threads

UNC Part No.	Bolt Size	Across Flats	Height	Unit
✦CD557982	¼-20	½	15⁄64	100
✦CD559554	5⁄16-18	9⁄16	19⁄64	100
✦CD559131	⅜-16	11⁄16	23⁄64	100
✦CD560640	7⁄16-14	¾	27⁄64	50
✦CD557382	½-13	⅞	31⁄64	50
✦CD561038	9⁄16-12	15⁄16	35⁄64	25
✦CD559981	⅝-11	1 1⁄16	39⁄64	25
✦CD558941	¾-10	1¼	47⁄64	20
✦CD560874	⅞-9	1 7⁄16	55⁄64	20

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Slotted / Castle Hex Nuts

Grade 5 Finished Hex Castle Nuts

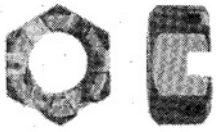


- UNF (SAE)
- Meets SAE Grade 5 specifications
- Carbon steel
- Zinc plated

Part No.	Size (In.)	TPI	Unit
KP320	¼	28	50
31281	5⁄16	24	25
MP31281	5⁄16	24	10
31282	⅜	24	25
MP31282	⅜	24	10
31283	7⁄16	20	25
MP31283	7⁄16	20	10
31284	½	20	25
MP31284	½	20	10
31285	9⁄16	18	25
MP31285	9⁄16	18	10
31286	⅝	18	25
MP31286	⅝	18	10
31287	¾	16	25
MP31287	¾	16	10
31288	⅞	14	25
31289	1	14	25
31290	1⅛	12	10

Slotted Hex Nuts

Cotter Pin Type



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Vibration resistant
- Zinc plated

Part No.	Dia.-TPI	UNC/UNF	Flats (In.)	Thick (In.)	Unit
C94611	¼-20	UNC	7⁄16	7⁄32	50
C94612	¼-28	UNF	7⁄16	7⁄32	50
C94613	5⁄16-18	UNC	½	17⁄64	50
C94614	5⁄16-24	UNF	½	17⁄64	50
1797	⅜-16	UNC	9⁄16	21⁄64	25
1793-1	⅜-24	UNF	9⁄16	21⁄64	25
1797-1	7⁄16-14	UNC	11⁄16	⅜	25
1794	7⁄16-20	UNF	11⁄16	⅜	25
1797-2	½-13	UNC	¾	7⁄16	25
1795	½-20	UNF	¾	7⁄16	25
1797-3	9⁄16-12	UNC	⅞	31⁄64	25
1796	9⁄16-18	UNF	⅞	31⁄64	25
1797-4	⅝-11	UNC	15⁄16	35⁄64	25
1801	⅝-18	UNF	15⁄16	35⁄64	25
1797-5	¾-10	UNC	1⅛	41⁄64	25
1802	¾-16	UNC	11⁄16	⅜	100
C94628	⅞-9	UNC	1 5⁄16	¾	10
C94629	⅞-14	UNF	1 5⁄16	¾	10
C94630	1-8	UNC	1½	55⁄64	5
C94723	1-14	UNF	1½	55⁄64	5

Slotted Hex Nuts

Canada Only



- Plain finish
- Low carbon

UNC Part No.	UNF Part No.	Bolt Size	Across Flats	Height	Unit
✦CD559129	✦CD559130	⅜	9⁄16	21⁄64	50
✦CD564118	✦CD560639	7⁄16	11⁄16	⅜	25
✦CD557380	✦CD557381	½	¾	7⁄16	25
—	✦CD561037	9⁄16	⅞	31⁄64	25
✦CD559979	✦CD559980	⅝	15⁄16	35⁄64	25
✦CD558939	✦CD558940	¾	1⅛	41⁄64	20
✦CD560872	✦CD560873	⅞	1 5⁄16	¾	20
✦CD556844	✦CD556845	1	1½	55⁄64	20
✦CD557226	✦CD557227	1¼	1⅞	1 1⁄16	10
✦CD557187	✦CD557188	1½	2¼	1 9⁄32	10

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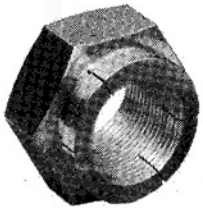
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All Metal Lock Nuts

FLEXLOC® Lock Nuts - All Metal Prevailing Torque

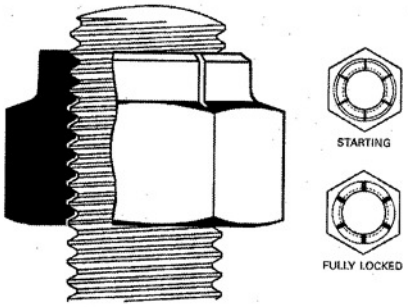


- UNC or UNF
- Medium Carbon Steel
- Cadmium Plating with Non-Dry Lubricant
- Exceeds Grade C Locknut Proof load
- Meets Locking Torque requirements of MIL-N-25027
- Maximum Temperature Limit 450°F
- Can be used as a stop nut (not seated) or lock nut (seated)
- Light Hex, Full Height Style

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
440000	6-32	*		100
440001	8-32	*		100
440002	10-24	440012	10-32	100
440003	¼-20	440013	¼-28	100
MP440003	¼-20	MP440013	¼-28	50
440004	5⁄16-18	440014	5⁄16-24	100
MP440004	5⁄16-18	MP440014	5⁄16-24	50
440005	3⁄8-16	440015	3⁄8-24	100
MP440005	3⁄8-16	MP440015	3⁄8-24	50
440006	7⁄16-14	440016	7⁄16-20	50
MP440006	7⁄16-14	MP440016	7⁄16-20	10
440007	½-13	440017	½-20	50
MP440007	½-13	MP440017	½-20	10
440008	5⁄8-11	440018	5⁄8-18	25
MP440008	5⁄8-11	MP440018	5⁄8-18	10
440009	¾-10	440019	¾-16	10
MP440009	¾-10	MP440019	¾-16	5
440010	7⁄8-9	440020	7⁄8-14	5
440011	1-8	440021	1-14	5

Note: 9⁄16" Diameter: Contact ISD for current price and availability

How FLEXLOC® Nut Works



Starting - A FLEXLOC locknut starts on the threaded member like any ordinary nut. Put it on with your fingers. Tighten it with a standard hand or speed wrench.
Beginning to lock - As the bolt enters the locking area, the slotted section is expanded and the nut starts to lock.
Fully locked as a stop nut - When 1-1/2 threads of a standard bolt are past the top of the nut, resiliency of the segmented section has fully locked the nut. It does not have to seat to lock.
Fully locked as a seated nut - The locking threads press inward against the bolt, lifting the nut upward and causing the remaining threads to bear against the lower surface of the bolt threads.
Vibration will not loosen an SPS® Locknut. (There is **never** any galling of threads.)

Prevailing Torque Grade C Lock Nuts - Non-Plated



Class C Prevailing Torque Lock Nuts are to be used with Grade 8 Hex Head Cap Screws and other alloy bolts. They are designed for applications requiring resistance to heavy vibration or shock.

- Black natural finish

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C713200	¼-20	C713201	¼-28	100
MPC713200	¼-20	*		50
C713202	5⁄16-18	C713203	5⁄16-24	100
MPC713202	5⁄16-18	*		50
C713204	3⁄8-16	C713205	3⁄8-24	100
MPC713204	3⁄8-16	*		50
C713206	7⁄16-14	C713207	7⁄16-20	50
MPC713206	7⁄16-14	*		25
C713208	½-13	C713209	½-20	50
MPC713208	½-13	*		25
C713210	9⁄16-12	C713211	9⁄16-18	50
MPC713210	9⁄16-12	*		25
C713212	5⁄8-11	C713213	5⁄8-18	25
MPC713212	5⁄8-11	*		10
C713214	¾-10	C713215	¾-16	25
MPC713214	¾-10	*		10
C713216	7⁄8-9	C713217	7⁄8-14	10
MPC713216	7⁄8-9	*		5
C713218	1-8	C713219	1-14	10
MPC713218	1-8	*		5

Grade 8 Hex Lock Nuts

Grade C — Domestic

- Zinc clear plating with wax
- 150,000 PSI proof load

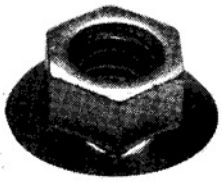
UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP66127	¼-20	KP66141	¼-28	100
KP66128	5⁄16-18	KP66142	5⁄16-24	100
KP66129	3⁄8-16	KP66143	3⁄8-24	100
KP66130	7⁄16-14	KP66144	7⁄16-20	50
KP66131	½-13	KP66145	½-20	50
KP66132	9⁄16-12	KP66146	9⁄16-18	25
KP66133	5⁄8-11	KP66147	5⁄8-18	25
KP66134	¾-10	KP66148	¾-16	25
KP66135	7⁄8-9	KP66149	7⁄8-14	20
KP66136	1-8	KP66150	1-14	10
KP66137-1	1⅛-7	KP66151-1†	1⅛-12	10
KP66138-1†	1¼-7	KP66152-1†	1¼-12	10

† Supplied in hex collar, cadmium plated

Dimensions of Kar-Tite Grade 8 Hex Nuts

Bolt Size	Flats	Height
¼	7⁄16	7⁄32
5⁄16	½	17⁄64
7⁄16	11⁄16	3⁄8
½	¾	7⁄16
9⁄16	7⁄8	31⁄64
5⁄8	15⁄16	35⁄64
¾	1⅛	41⁄64
7⁄8	1 5⁄16	47⁄64
1	1½	55⁄64
1⅛	1 11⁄16	61⁄64
1¼	1⅞	1 1⁄32

Grade 8 Hex Flange Hex Nuts - Non-Plated



- For use with Grade 8 Hex Flange Cap Screws
- 150,000 psi load
- Black (Unplated) Finish

Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C39068	3⁄8-16	*	3⁄8-24	25
C39069	½-13	C39072	½-20	25
C39070	5⁄8-11	C39073	5⁄8-18	10
C39071	¾-10	C39074	¾-16	5

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Prevailing Torque Grade B Lock Nuts - Zinc and Wax

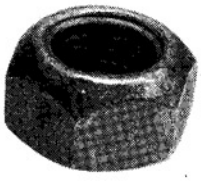


Class B Prevailing Torque Lock Nuts are to be used with Grade 5 Hex Head Cap Screws and other medium carbon bolts. They are pre-lubricated with wax for ease of assembly. They are designed for applications requiring resistance to heavy vibration or shock.

- Zinc & Wax plating - clear

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C712200	¼-20	C712201	¼-28	100
MPC712200	¼-20	MPC712201	¼-28	50
C712202	5/16-18	C712203	5/16-24	100
MPC712202	5/16-18	MPC712203	5/16-24	50
C712204	⅜-16	C712205	⅜-24	100
MPC712204	⅜-16	MPC712205	⅜-24	50
C712206	7/16-14	C712207	7/16-20	50
MPC712206	7/16-14	MPC712207	7/16-20	25
C712208	½-13	C712209	½-20	50
MPC712208	½-13	MPC712209	½-20	25
C712210	9/16-12	C712211	9/16-18	50
C712212	⅝-11	C712213	⅝-18	25
MPC712212	⅝-11	MPC712213	⅝-18	10
C712214	¾-10	C712215	¾-16	25
MPC712214	¾-10	MPC712215	¾-16	10
C712216	⅞-9	C712217	⅞-14	10
C712218	1-8	C712219	1 -14	10

Prevailing Torque Grade A Lock Nuts - Zinc Clear



Class A Prevailing Torque Lock Nuts are to be used with Grade 2 Hex Head Cap Screws and other low carbon bolts. They are designed for applications requiring resistance to heavy vibration or shock.

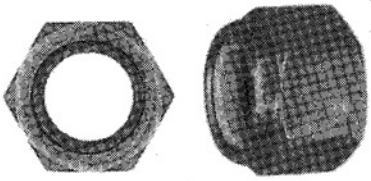
Specifications:

- Zinc-Clear plating

UNC Part No.	Size (In.)	Unit
C602200	¼-20	100
C602202	5/16-18	100
C602204	⅜-16	100
C602206	7/16-14	50
C602208	½-13	50

Nylon Insert Lock Nuts

Nylon Insert Grade C Lock Nuts - Domestic For Use With Grade 8 Fasteners



Grade 8 Nylon Insert Lock Nuts are to be used with Grade 8 Hex Head Cap Screws and other alloy bolts. They are reusable and lock mechanically without the risk of thread damage. They are designed for applications requiring resistance to heavy vibration or shock.

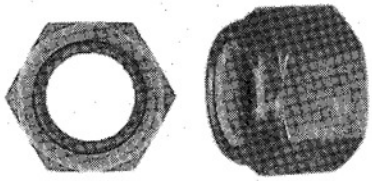
Specifications:

- Made in U.S.A.
- NE8 Style 1
- Zinc-Yellow plating.

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C714100	¼-20	C714101	¼-28	100
MPC714100	¼/20	MPC714101	¼-28	50
C714102	5/16-18	C714103	5/16-24	100
MPC714102	5/16-18	MPC714103	5/16-24	50
C714104	⅜-16	C714105	⅜-24	50
C714106	7/16-14	C714107	7/16-20	50
MPC714106	7/16-14	MPC714107	7/16-20	25
C714108	½-13	C714109	½-20	25
C714110	9/16-12	C714111	9/16-18	25
C714112	⅝-11	C714113	⅝-18	10
C714114	¾-10	C714115	¾-16	10
C714116	⅞-9	C714117	⅞-14	10
C714118	1-8	C714119	1-14	10
C714120	1 ⅛-7	C714121	1 ⅛-12	10
C714122	1 ¼-7	C714123	1 ¼-12	10

Grade C Nylon Insert Lock Nuts

Prevailing Torque Type



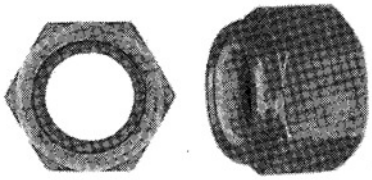
BOWMAN Gold Unichrome PLATING™

- For use with SAE Grade 8 and Grade 5 connections
- UNC (USS) or UNF (SAE)
- Meets IFI 100/107 Grade C (Grade 8) mechanical specifications
- Medium carbon steel
- 150,000 psi proof load
- NE8 style

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
39651	¼-20	39661	¼-28	100
MP39651	¼-20	MP39661	¼-28	50
39652	5/16-18	39662	5/16-24	100
MP39652	5/16-18	MP39662	5/16-24	50
39653	⅜-16	39663	⅜-24	50
39654	7/16-14	39664	7/16-20	50
MP39654	7/16-14	MP39664	7/16-20	25
39655	½-13	39665	½-20	25
39656	9/16-12	39666	9/16-18	25
39657	⅝-11	39667	⅝-18	10
39658	¾-10	39668	¾-16	10
39659	⅞-9	39669	⅞-14	5
39660	1-8	39670†	1-14	5
KP78219	1⅛-7	KP78231	1⅛-12	5
KP78220	1¼-7	KP78232	1¼-12	5

Grade C Nylon Insert Lock Nut — Non-Plated

Prevailing Torque Type



- UNC (USS) or UNF (SAE)
- Meets IFI 100/107 Grade C (Grade 8) mechanical specifications
- Medium carbon steel
- 150,000 psi proof load
- For use with SAE Grade 8 and Grade 5 connections
- NE8 style

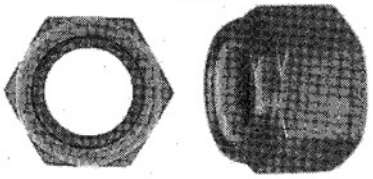
UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
39621	¼-20	39635	¼-28	100
MP39621	¼-20	MP39635	¼-28	50
39622	5/16-18	39636	5/16-24	100
MP39622	5/16-18	MP39636	5/16-24	50
39623	⅜-16	39637	⅜-24	100
MP39623	⅜-16	MP39637	⅜-24	50
39624	7/16-14	39638	7/16-20	100
MP39624	7/16-14	MP39638	7/16-20	25
39625	½-13	39639	½-20	100
MP39625	½-13	MP39639	½-20	25
39626	9/16-12	39640	9/16-18	100
MP39626	9/16-12	MP39640	9/16-18	25
39627	⅝-11	39641	⅝-18	100
MP39627	⅝-11	MP39641	⅝-18	10
39628	¾-10	39642	¾-16	100
MP39628	¾-10	MP39642	¾-16	10
39629	⅞-9	39643	⅞-14	100
MP39629	⅞-9	MP39643	⅞-14	5
39630	1-8	39644	1-14	50
MP39630	1-8	MP39644	1-14	5
39631	1⅛-7	39645	1⅛-12	50
MP39631	1⅛-7	MP39645	1⅛-12	5
39632	1¼-7	39646	1¼-12	50
MP39632	1¼-7	MP39646	1¼-12	5
39633	1⅜-6	*	1⅜-6	25
39634	1½-6	39647	1½-12	25
MP39634	1½-6	MP39647	1½-12	5

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Nylon Insert Lock Nuts - Domestic For Use With Grade 5 and Grade 2 Fasteners



Nylon Insert Lock Nuts are to be used with Grade 5 and Grade 2 Hex Head Cap Screws, Machine Screws and other medium and low carbon bolts. They are reusable and lock mechanically without the risk of thread damage. They are designed for applications requiring resistance to heavy vibration or shock.

Specifications:
- Made in U.S.A
- NE Style
- Zinc-Clear plating

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C712100	¼-20	C712101	¼-28	100
MPC712100	¼-20	MPC712101	¼-28	50
C712102	5⁄16-18	C712103	5⁄16-24	100
MPC712102	5⁄16-18	MPC712103	5⁄16-24	50
C712104	⅜-16	C712105	⅜-24	100
MPC712104	⅜-16	MPC712105	⅜-24	50
C712106	7⁄16-14	C712107	7⁄16-20	50
MPC712106	7⁄16-14	MPC712107	7⁄16-20	25
C712108	½-13	C712109	½-20	50
MPC712108	½-13	MPC712109	½-20	25
C712110	9⁄16-12	C712111	9⁄16-18	25
C712112	⅝-11	C712113	⅝-18	10
C712114	¾-10	C712115	¾-16	10
C712116	⅞-9	C712117	⅞-14	10
C712118	1-8	C712119	1-14	10

Hex Lock Nuts
Nylon Insert Type

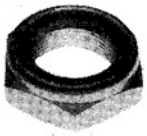


- NE style
- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated
- Vibration resistant

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
*CD555943	4-40	*	*	100
34269	6-32	*	No. 6-40	100
34270	8-32	*	No. 8-36	100
34271	10-24	34281	No. 10-32	100
34271-1	12-24	*	No. 12-28	100
34272	¼-20	34282	¼-28	100
MP34272	¼-20	MP34282	¼-28	50
34273	5⁄16-18	34283	5⁄16-24	100
MP34273	5⁄16-18	MP34283	5⁄16-24	50
34274	⅜-16	34284	⅜-24	100
MP34274	⅜-16	MP34284	⅜-24	50
34275	7⁄16-14	34285	7⁄16-20	50
MP34275	7⁄16-14	MP34285	7⁄16-20	25
34276	½-13	34286	½-20	50
MP34276	½-13	MP34286	½-20	25
34276-1	9⁄16-12	34286-1	9⁄16-18	50
34277	⅝-11	34287	⅝-18	50
MP34277	⅝-11	MP34287	⅝-18	10
34278	¾-10	34288	¾-16	50
MP34278	¾-10	MP34288	¾-16	10
34279	⅞-9	34289	⅞-14	25
34280	1-8	34290	1-14	25
KP30033	1⅛-7	KP30035	1⅛-12	10
KP30034	1¼-7	KP30036	1¼-12	10
*CD556116	1½-6	*CD556144	1½-12	10

*Canada only

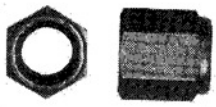
Hex Lock Nuts
Nylon-Insert Type



- NTE style
- UNC (USS) or UNF (SAE)
- Low carbon steel
- Light hex, thin height
- Zinc plated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
34023	4-40	*	*	100
34024	5-40	*	*	100
34025	¼-20	34035	¼-28	100
34026	5⁄16-18	34036	5⁄16-24	100
34027	⅜-16	34037	⅜-24	100
34028	7⁄16-14	34038	7⁄16-20	50
34029	½-13	34039	½-20	50
34030	9⁄16-12	34040	9⁄16-18	50
34031	⅝-11	34041	⅝-18	50
34032	¾-10	34042	¾-16	50
34033	⅞-9	34043	⅞-14	25
34034	1-8	34044	1-14	25

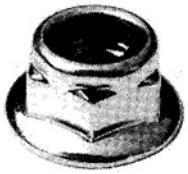
High Hex Lock Nuts
Nylon Insert Type



- N style
- UNF (SAE)
- Class C (Grade 8 compatible)
- Zinc plated
- Vibration resistant

Part No.	Size (In.)	TPI	Unit
34345	½	20	50
34346	⅝	18	50
34347	¾	16	50
34348	⅞	14	25

Nylon Insert Flange Lock Nuts



- Zinc-clear plating
- For use with Grade 5 and 2 fasteners
- Used in applications where a wider bearing surface is desired along with a locking element

Part No.	Size	Unit
34349	¼-20	50
34350	5⁄16-18	50
34351	⅜-16	25
34352	½-13	25

Spin-Lock

Spin-Lock Flange Lock Nuts
Zinc Plated



- UNC (USS) or UNF (SAE)
- Case hardened steel
- Zinc plated
- Vibration resistant

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
34291	No. 10-24	*	*	50
*	*	KP70138	No. 10-32	100
34292	¼-20	*	*	50
MP34292	¼-20	*	*	25
34293	5⁄16-18	34298	5⁄16-24	50
MP34293	5⁄16-18	MP34298	5⁄16-24	25
34294	⅜-16	34299	⅜-24	50
MP34294	⅜-16	*	*	25
34295	7⁄16-14	*	*	50
34296	½-13	*	*	50

Spin-Lock Flange Nuts
- Black oxide plating

Part No.	Size (In.)	Unit
KP1814	¼-20	100
KP61185	5⁄16-18	50
*CD61185-2	5⁄16-18	100
KP66802	⅜-16	50
KP71884	½-13	50

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Whiz Lock

Whiz Lock Nuts - Large Flange



Whiz Lock Nuts have a serrated flange that firmly grips the bearing surface. Ideal where light vibration occurs.

Specifications:
- Zinc - Clear Plating

Part No.	Dia. (In.)	Flange (In.)	Unit
C86313	¼ - 20	45/64	100
C86314	5/16 - 18	13/16	100
C86315	⅜ - 16	29/32	50

Keps Nuts

K-Lock Hex Lock Nuts - Keps

Sawtooth Lockwasher Type



- UNC (USS) or UNF (SAE)
- Low carbon steel
- Zinc plated
- Vibration resistant

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
31230	No. 4-40	*	No. 4-48	100
31231	No. 6-32	*	No. 6-40	100
31232	No. 8-32	*	No. 8-36	100
31234	No. 10-24	31233	No. 10-32	100
31234-1	No. 12-24	*	No. 12-28	100
31238	¼-20	31235	¼-28	100
31239	5/16-18	C602415	5/16-24	50
31240	⅜-16	31237	⅜-24	100

Wing Nuts

Wing Nuts

"A" Type



- UNC (USS) or UNF (SAE)
- Meets ANSI B18.17 specification
- Cold forged steel
- Zinc plated
- Light series

Part No.	Size	Unit
C21131	6-32	50
C85501	8-32	50
34353	10-24	25
34360	10-32	25
34354	¼-20	25
C85754	¼-28	50
34355	5/16-18	25
34356	⅜-16	25
34357	7/16-14	25
34358	½-13	10

Wing Nuts

"C"/Style 1 Type



- UNC (USS) or UNF (SAE)
- Zinc Alloy
- Zinc plated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
34321	No. 10-24	34331	No. 10-32	25
34323	¼-20	*	¼-28	25
34324	5/16-18	*	½-20	25
34325	⅜-16	*	⅜-24	25
34327	½-13	*	½-20	10

*Item not available

Nylon Insert Wing Nuts



- Nylon insert allows for easy installation with greater holding power
- Zinc die-cast
- Perfect for high vibration applications

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP79449	8-32			25
KP79450	10-24	KP79451	10-32	25
KP79452	¼-20			25
KP79453	5/16-18			25
KP79454	⅜-16			25

Cap Nuts

Cap Nuts – Steel



Cap Nuts are also known as Acorn Nuts. They completely cover and protect threads as well as providing for easier assembly and a better appearance.

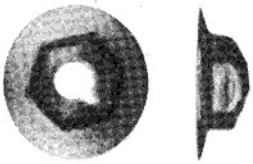
Specifications:
- Zinc Alloy or Zinc-Clear plating

UNC Part No.	Size	UNF Part No.	Size	Unit
C3696	6 - 32	*		100
C3697	8 - 32	*		100
C3698	10 - 24	C3699	10-32	100
C3700	¼ - 20	C3701	¼ - 28	100
C3702	5/16-18	C3703	5/16 - 24	50
C3704	⅜-16	*		50

Pal Nuts

Pal Nuts

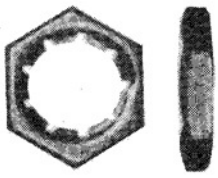
Hex Washer Type



- UNC (USS)
- Carbon spring steel
- Zinc plated

Part No.	Size (In.)	TPI	Unit
31270	No. 8	32	100
31271	No. 10	24	50

Hex Type



- UNF (SAE)
- Carbon spring
- Zinc plated

Part No.	Size (In.)	TPI	Unit
31276	⅜	24	100
31277	7/16	20	100
31279	½	20	100

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Specialty Nuts

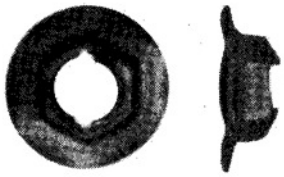
Pal Nuts
Self-Threading Hex Washer Type



- Carbon spring steel
- Zinc plating
- With or without sealer

Part No.	Stud Size (In.)	Hex Size (In.)	Washer Dia. (In.)	Unit
C13429	1/8	5/16	7/32	100
MPC13429	1/8	5/16	7/32	25
C18619	5/32	3/8	9/16	100
MPC18619	5/32	3/8	9/16	25
C13430	3/16	3/8	5/8	100
MPC13430	3/16	5/8	5/8	10
C13431	1/4	7/16	11/16	100
MPC13431	1/4	7/16	11/16	10
34308	1/4	7/16	11/16	50
C18639	21/64	7/16	3/4	100
C13638*	3/16	3/8	5/8	50
C13639*	1/4	7/16	11/16	50

Pal Nuts
Self-Threading Hex Washer Type



- Carbon spring steel
- Zinc plated
- Without sealer

Part No.	Size (In.)	Unit
34302	3/16	50
34304	5/16	50

Pal Nuts
Washer Type



- Zinc-Clear plated spring steel

Part No.	Screw Size (In.)	Hex Size (In.)	Washer Dia. (In.)	Unit
C10656	10-24	3/8	3/4	100
C85986	1/4-20	7/16	19/32	100
C10658	1/4-20	7/16	13/16	100

Pal Nuts
Lock Nut Type

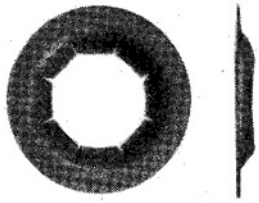


- UNC and UNF
- Spring steel
- Zinc-Clear plating

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C10239	1/4-20	*	*	100
C10241	5/16-18	C10240	5/16-24	100
C10242	3/8-16	C6092	3/8-24	100
*	*	C10243	7/16-20	100
C10246	1/2-13	*	*	50

Push

Push Nuts
Flat Round Type



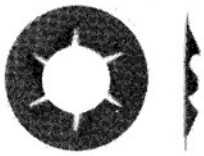
- Carbon spring steel
- Zinc plated

Part No.	Rod Dia. (In.)	I.D.† (In.)	O.D. (In.)	Thickness (In.)	Unit
31540**	1/16	9/64	.195	.009	100
MP31540**	1/16	9/64	.195	.009	25
31542	1/8	15/64	3/8	.013	100
MP31542	1/8	15/64	3/8	.013	25
C84038	5/32	5/16	7/16	.013	100
C84038-1	5/32	5/16	7/16	.013	25
31543**	3/16	21/64	7/16	.013	100
MP31543**	3/16	21/64	7/16	.013	25
31544	.240	25/64	17/32	.017	100
MP31544	.240	25/64	17/32	.017	25
31545	1/4	25/64	17/32	.017	100
MP31545	1/4	25/64	17/32	.017	25
C84042	1/4	11/16	15/16	.017	100
C84042-1	1/4	11/16	15/16	.017	10
31546	5/16	29/64	5/8	.021	100
MP31546	5/16	29/64	5/8	.021	25
C84043	5/16	11/16	15/16	.021	100
C84043-1	5/16	11/16	15/16	.017	10
31547	3/8	35/64	3/4	.027	100
MP31547	3/8	35/64	3/4	.027	25
C84044	3/8	11/16	15/16	.027	50
C84044-1	3/8	11/16	15/16	.027	10
C84045	7/16	47/64	15/16	.027	50
C84045-1	7/16	47/64	15/16	.027	10
31548	1/2	47/64	1	.035	100
MP31548	1/2	47/64	1	.035	25

† I.D. of washer face
** Black oil finish

Bolt Retainers

Bolt Retainers
Flat Round Push Type



- Carbon spring steel
- Black oil finish

Part No.	Size (In.)	O.D. (In.)	Thickness (In.)	Unit
35314	5/16	5/8	.013	100
35315	3/8	25/32	.015	100
35316	7/16	27/32	.015	100
35317	1/2	15/16	.015	100

Square Machine Screw Nuts

Square Machine Screw Nuts

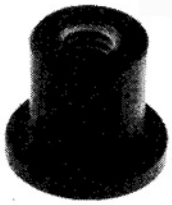


- UNC (USS)
- Low carbron steel
- Zinc plated

Part No.	Size	TPI	Unit
31298	No. 10	24	100
31299	1/4	20	100

Well Nuts

Well Nuts
With Brass Inserts



- Neoprene washer

Continued on next page

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Continued from previous page

Part No.	Thread Size (In.)	Hole Size (In.)	Shank Length In.)	Unit
C23500	8-32	5/16	7/16	25
1902	10-24	3/8	5/16	25
484	10-32	3/8	5/8	50
✦CD552877	10-32	1/2	1"	10
1016	1/4-20	1/2	5/8	50
C23502	5/16-18	5/8	9/16	10
C23503	3/8-16	3/4	7/8	10

✦Canada only

Well Nuts - Head Dimensions

Part No.	Head Dia. (In.)	Head Thick (In.)
C23500	7/16	.052
1902	9/16	3/16
484	9/16	1/32
1936	11/16	1/32
1016	3/4	3/16
C23502	7/8	1/8
C23503	1 1/4	3/16

Remember that you can always call our Customer Service Department when you need a sample.

And if you're not sure of exactly what type of fastener you need, rest assured that one call to our Customer Service Department can get you the answer you are looking for!

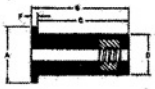
We're here to serve you so feel free to call us with any questions you may have.

RUBBER WELL NUTS

- Self-sealing blind fastener
- Dampens vibration and shock
- Helps prevent galvanic corrosion
- Well-nut fasteners fasten in thin wall or solid material
- Standard & metric sizes available



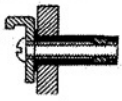
Applications:
Luggage racks, electric panels, radiator mountings, skylights, sirens & horns, electronic sensors, transformers, fan motor mounts & marine accessories



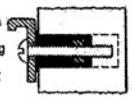
Step 1
Position WELL-NUT fasteners in pre-drilled hole until flange is seated tight against surface. Because it is a blind fastener, the WELL-NUT fastener, does not require access to the under surface of the material.



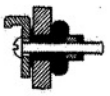
Step 2
Place part to be assembled against the flange of the WELL-NUT fastener and insert conventional machine screw into the fastener.



Step 3
As the screw is tightened , it engages the brass nut in the WELL-NUT fastener. The resilient neoprene bushing compresses and expands, forcing it tightly into screw threads and against the inner part of the assembled joint.



Step 4
The expanding, sealing properties of the neoprene bushing are equally effective in solid material. In thin wall or solid wall applications, a WELL-NUT fastener meets the most exacting service requirements.



T - Nuts



- Excellent for worn screw holes and wood-to-metal applications by providing threads in wood
- Mounts flush without countersinking
- Quick, efficient installation and assembly
- Zinc plating

Part No.	Dia. - TPI	Barrel Height (In.)	Barrel O.D. (In.)	Flange Thickness (In.)	Unit
KP75421	6-32	1/4	.162	.030	50
KP75422	8-32	1/4	.221	.050	50
KP75423	10-24	5/16	.243	.050	50
KP75424	10-32	5/16	.243	.050	50
KP75425	1/4-20	7/16	.306	.050	50
KP75426	5/16-18	3/8	.390	.065	25
KP75427	3/8-16	7/16	.450	.062	25

T-Nuts

Canada Only

- Excellent for worn screw holes in wood applications
- Flush mounts
- Quick, efficient assembly. Hammer into place

Part No.	Thread Size (In.)	Finish	Unit
✦CD556203	8-32	Plain	100
✦CD556422	10-24	Plain	100
✦CD557965	1/4-20	Plain	100
✦CD557966	1/4-20	Zinc	100
✦CD557963	1/4-20	Plain	100
✦CD559539	5/16-18	Plain	100
✦CD559143	3/8-16	Plain	100

✦Canada only

Dimension for T-Nuts

Part No.	A Flange (In.)	B Height (In.)	D Barrel (In.)	T Thickness (In.)	Drill Size (In.)
✦CD556203	19/32	1/4	.221	0.05	7/32
✦CD556422	3/4	5/16	.243	0.05	1/4
✦CD557965	3/4	5/16	.306	0.05	5/16
✦CD557966	3/4	5/16	.306	0.05	5/16
✦CD557963	3/4	5/16	.306	0.05	5/16
✦CD559539	7/8	3/8	.39	0.065	25/64
✦CD559143	1	7/16	.45	0.062	15/32

✦Canada only

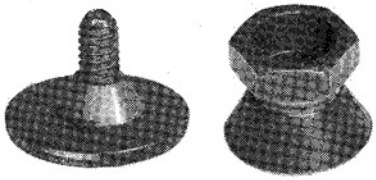
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Tamper Resistant Hex Nuts

Tamper Resistant Hex Nuts



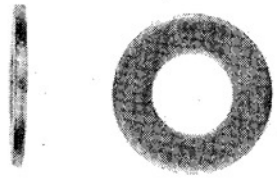
- Automatic torque feature causes the hex portion of the tamper resistant nut to snap off at the proper installation torque, avoiding over torque and damage to the work surface
- Use on signs, bathroom fixtures, playground equipment, security cameras, television monitors, and outdoor lighting
- Standard tools are used for installation and removal

Part No.	Dia.	Material	Unit
KP82075	¼-20	Aluminum	25
KP82076	5/16-18	Aluminum	25
KP82077	3/8-16	Aluminum	25
KP82078	5/16-18	Zinc	25

Through-Hardened Flat Washers

Bowmalloy® Through-Hardened Flat Washers – Zinc Yellow

Narrow (SAE)



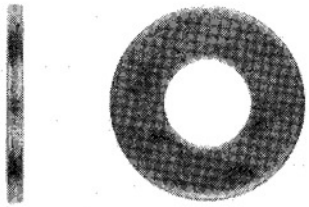
- Made in USA
- Meets ANSI/ASME B18.22.1 1965 (R1981) specifications
- Carbon steel

Mini Pack Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
36701	¼	9/32	5/8	.067 – .080	100
36702	5/16	11/32	11/16	.067 – .080	100
36703	3/8	13/32	13/16	.067 – .080	100
36704	7/16	15/32	59/64	.067 – .080	50
36705	½	17/32	1 1/16	.108 – .121	50
36706	9/16	19/32	1 5/32	.108 – .121	25
36707	5/8	21/32	1 5/16	.108 – .121	25
36708	¾	13/16	1 15/32	.136 – .160	25
*	7/8	15/16	1¾	.136 – .160	–
*	1	1 1/16	2	.136 – .160	–
*	1 1/8	1¼	2¼	.136 – .160	–
*	1¼	1⅜	2½	.168 – .192	–
*	1½	1⅝	3	.168 – .192	–

Standard Pack Part No.	Unit	Bulk Pack Part No.	Unit	Bolt Size (In.)
39701	200	36711	1000	¼
39702	200	36712	1000	5/16
39703	200	36713	500	3/8
39704	100	36714	500	7/16
39705	100	36715	200	½
39706	50	36716	200	9/16
39707	50	36717	150	5/8
39708	50	36718	125	¾
39709	20	36719	80	7/8
39710	20	36720	60	1
39711	20	36721	50	1 1/8
39712	20	36722	35	1¼
*	–	36724	25	1½

Bowmalloy® Through-Hardened Flat Washers – Zinc Yellow

Wide (USS)



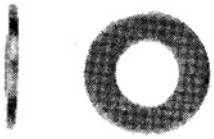
- Made in USA
- Meets ANSI/ASME B18.22.1 1965 (R1981) specifications
- Carbon steel

Mini Pack Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
36750	¼	5/16	47/64	.067 - .080	150
36751	5/16	3/8	7/8	.083 - .104	100
36752	3/8	7/16	1	.083 - .104	75
36753	7/16	½	1¼	.083 - .104	50
36754	½	9/16	1⅜	.112 - .132	25
36755	9/16	5/8	1 15/32	.112 - .132	25
36756	5/8	11/16	1¾	.136 - .160	15
36757	¾	13/16	2	.148 - .177	10
*	7/8	15/16	2¼	.168 - .213	–
*	1	1 1/16	2½	.168 - .213	–
*	1⅛	1¼	2¾	.168 - .213	–
*	1¼	1⅜	3	.168 - .213	–
*	1½	1⅝	3½	.168 - .213	–

Standard Pack Part No.	Unit	Bulk Pack Part No.	Unit	Bolt Size (In.)
39750	200	36765	750	¼
39751	200	36766	500	5/16
39752	200	36767	300	3/8
39753	100	36768	250	7/16
39754	100	36769	125	½
39755	50	36770	100	9/16
39756	50	36771	75	5/8
39757	50	*	–	¾
39758	20	36773	35	7/8
39759	20	36774	30	1
39760	20	*	–	1⅛
39761	20	*	–	1¼
*	–	36777	15	1½

Through-Hardened Flat Washers

Narrow (SAE) — Non-Plated

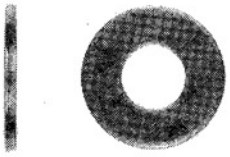


- Made in USA
- Meets ASTM F436 specifications
- Carbon steel
- Non-plated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
99740	¼	9/32	5/8	.051 - .080	200
99741	5/16	11/32	11/16	.051 - .080	200
99742	3/8	13/32	13/16	.051 - .080	200
99743	7/16	15/32	59/64	.051 - .080	100
99744	½	17/32	1 1/16	.097 - .177	100
99745	9/16	19/32	1 3/16	.097 - .177	50
99746	5/8	11/16	1 5/16	.122 - .177	50
99747	¾	13/16	1 15/32	.122 - .177	50
99748	7/8	15/16	1¾	.136 - .177	20
99749	1	1⅛	2	.136 - .177	20
99750	1⅛	1¼	2¼	.136 - .177	10
99751	1¼	1⅜	2½	.136 - .177	10
KP47823	1⅜	1½	2¾	.136 - .177	20
99752	1½	1⅝	3	.136 - .177	10
¤99755	1½	1⅝	3	.136 - .177	100
KP47825	1¾	1⅞	3⅜	.178 - .280	10
KP47826	2	2⅛	3¾	.178 - .280	5
KP86956	2¼ -	2⅜	4	.240 - .340	5
KP47827	2½	2⅝	4½	.240 - .340	5

Through-Hardened Flat Washers

Wide (USS) — Non-Plated



- Made in USA
- Meets ANSI B18.22.1 specifications
- Carbon steel
- Non-plated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
99760	¼	5/16	¾	.051 - .080	200
99761	5/16	3/8	7/8	.064 - .104	200
99762	3/8	7/16	1	.064 - .104	200
99763	7/16	½	1¼	.064 - .104	100
99764	½	9/16	1⅜	.086 - .132	100
99765	9/16	5/8	1½	.086 - .132	50
99766	5/8	11/16	1¾	.105 - .160	50
99767	¾	13/16	2	.122 - .177	50
99768	7/8	15/16	2¼	.136 - .192	20
99769	1	1 1/16	2½	.136 - .192	20
99770	1⅛	1¼	2¾	.136 - .192	10
99771	1¼	1⅜	3	.136 - .192	10
99772	1½	1⅝	3½	.136 - .192	10

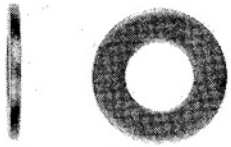
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Bowmalloy® Heavy-Duty Flat Washers

Narrow (SAE)



- Made in USA
- Meets ANSI/ASME B18.22.1 Narrow dimensional specifications with extra thickness
- Carbon steel
- Through-hardened
- For rugged industrial or off-road applications
- Mechanical zinc plating with gold dichromate coating

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
36701-HD	1/4	9/32	5/8	.080 - .100	125
MP36701-HD	1/4	9/32	5/8	.080 - .100	50
36702-HD	5/16	11/32	11/16	.080 - .100	100
MP36702-HD	5/16	11/32	11/16	.080 - .100	50
36703-HD	3/8	13/32	13/16	.100 - .140	75
MP36703-HD	3/8	13/32	13/16	.100 - .140	50
36704-HD	7/16	15/32	59/64	.100 - .140	60
MP36704-HD	7/16	15/32	59/64	.100 - .140	25
36705-HD	1/2	17/32	1 1/16	.188 - .219	25
36706-HD	9/16	19/32	1 3/16	.188 - .219	25
36707-HD	5/8	11/16	1 5/16	.219 - .250	15
36708-HD	3/4	13/16	1 15/32	.241 - .257	15

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness Min.-Max. (In.)	Unit
36711-HD	1/4	9/32	5/8	.080 - .100	500
36712-HD	5/16	11/32	11/16	.080 - .100	500
36713-HD	3/8	13/32	13/16	.100 - .140	300
36714-HD	7/16	15/32	59/64	.100 - .140	300
36715-HD	1/2	17/32	1 1/16	.188 - .219	150
36716-HD	9/16	19/32	1 3/16	.188 - .219	125
36717-HD	5/8	11/16	1 5/16	.219 - .250	75
36718-HD	3/4	13/16	1 15/32	.241 - .257	75
36719-HD	7/8	15/16	1 3/4	.241 - .257	15
36720-HD	1	1 1/8	2	.241 - .257	15
36721-HD	1 1/8	1 1/4	2 1/4	.250 - .313	10
36722-HD	1 1/4	1 3/8	2 1/2	.250 - .313	10
36724-HD	1 1/2	1 5/8	3	.250 - .313	10

Barnes Logo Flat Washers

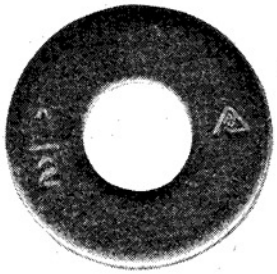
Bowmalloy Through-Hardened Flat Washers with Barnes logo Narrow (SAE) - Zinc Clear Plating



- Made in USA
- Rc 38-42 hardness
- Use with Bowmalloy, Bowma-Torq, Kartite, and Grade 5 Hex Head Cap Screws
- Marked with the Barnes Group logo and size for identification and traceability
- Unichrome plating
- Meets ANSI/ASME B18.22.1 specifications

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP80412	1/4	9/32	5/8	.067 - .080	100
KP80413	5/16	11/32	11/16	.079 - .093	100
KP80414	3/8	13/32	13/16	.079 - .093	100
KP80415	7/16	15/32	59/64	.090 - .106	50
KP80416	1/2	17/32	1 1/16	.122 - .146	50
KP80417	9/16	19/32	1 3/16	.122 - .146	50
KP80418	5/8	21/32	1 5/16	.136 - .160	50
KP80419	3/4	13/16	1 15/32	.136 - .160	50
KP80420	7/8	15/16	1 3/4	.136 - .160	25
KP80421	1	1 1/16	2	.136 - .160	25
KP80422	1 1/8	1 1/4	2 1/4	.136 - .160	25
KP80423	1 1/4	1 3/8	2 1/2	.168 - .192	25
C712055	1 1/2	1 5/8	3	.168 - .192	25

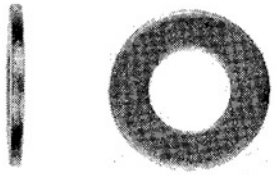
Bowmalloy Through-Hardened Flat Washers with Barnes logo Wide (USS) - Zinc Clear Plating



- Made in USA
- Rc 38-42 hardness
- Use with Bowmalloy, Bowma-Torq, Kartite, and Grade 5 Hex Head Cap Screws
- Marked with the Barnes Group logo and size for identification and traceability
- Unichrome plating
- Meets ANSI/ASME B18.22.1 specifications

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP80400	1/4	5/16	3/4	.067 - .080	100
KP80400-2	1/4	5/16	3/4	.067 - .080	250
KP80401	5/16	3/8	7/8	.083 - .104	100
KP80401-2	5/16	3/8	7/8	.083 - .104	250
KP80402	3/8	7/16	1	.083 - .104	100
KP80402-2	3/8	7/16	1	.083 - .104	250
KP80403	7/16	1/2	1 1/4	.090 - .106	50
KP80403-2	7/16	1/2	1 1/4	.090 - .106	250
KP80404	1/2	9/16	1 3/8	.122 - .146	50
KP80404-2	1/2	9/16	1 3/8	.122 - .146	250
KP80405	9/16	5/8	1 1/2	.122 - .146	50
KP80406	5/8	11/16	1 3/4	.136 - .160	50
KP80406-2	5/8	11/16	1 3/4	.136 - .160	250
KP80407	3/4	13/16	2	.148 - .177	50
KP80407-2	3/4	13/16	2	.148 - .177	100
KP80408	7/8	15/16	2 1/4	.168 - .192	25
KP80409	1	1 1/16	2 1/2	.168 - .192	25
KP80410	1 1/8	1 1/4	2 3/4	.168 - .192	25
KP80411	1 1/4	1 3/8	3	.168 - .192	25
C712054	1 1/2	1 5/8	3 1/2	.168 -.213	25

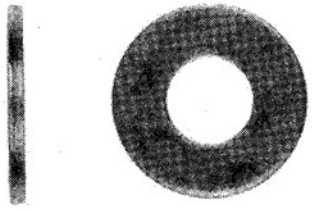
Hardened Zinc-Clear Flat Washers - For use with Grade 5 Hex Head Cap Screws - SAE



- Made in USA
- Zinc-Clear plating

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
C82949	1/4	9/32	5/8	1/16	100
C82950	5/16	11/32	11/16	1/16	100
C82951	3/8	13/32	13/16	1/16	100
C82952	7/16	15/32	15/16	1/16	50
C82953	1/2	17/32	1 1/16	7/64	50
C82954	9/16	19/32	1 3/16	7/64	50
C82955	5/8	21/32	1 5/16	9/64	25
C82924	3/4	13/16	1 1/2	9/64	25
C82925	7/8	15/16	1 3/4	5/32	25
C82926	1	1 1/16	2	5/32	25
C82927	1 1/8	1 1/4	2 1/4	5/32	10
C82928	1 1/4	1 3/8	2 1/2	5/32	10
C712055		1 5/8	3	.168-.192	25

Hardened Zinc-Clear Flat Washers - For use with Grade 5 Hex Head Cap Screws - USS



- Made in USA
- Zinc-Clear plating

Continued on next page

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Continued from previous page

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
C39871	¼	5⁄16	¾	1⁄16	250
C85878	¼	5⁄16	¾	1⁄16	100
C39872	5⁄16	⅜	⅞	5⁄64	250
C85879	5⁄16	⅜	⅞	5⁄64	100
C39873	⅜	7⁄16	1	5⁄64	250
C85880	⅜	7⁄16	1	5⁄64	100
C39874	7⁄16	½	1¼	5⁄64	100
C85881	7⁄16	½	1¼	5⁄64	50
C39875	½	9⁄16	1⅜	7⁄64	100
C85882	½	9⁄16	1⅜	7⁄64	50
C85883	9⁄16	⅝	1½	7⁄64	50
C39876	⅝	11⁄16	1¾	9⁄64	50
C85884	⅝	11⁄16	1¾	9⁄64	25
C39877	¾	13⁄16	2	9⁄64	50
C85885	¾	13⁄16	2	9⁄64	10
C85886	⅞	15⁄16	2¼	5⁄32	10
C85887	1	1 1⁄16	2½	5⁄32	10
C85888	1⅛	1¼	2¾	5⁄32	5
C85889	1¼	1⅜	3	5⁄32	5
C712054		1⅝	3½	.168-.213	25

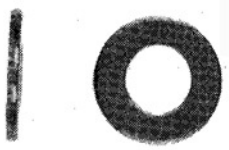
Socket Head Cap Screw Flat Washers Through Hardened

- Use with socket head cap screws to improve the bearing surface in most applications
- Made from 1050 spring steel, C40-45 hardness
- Plain finish

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
360000	No. 6	.143-.153	.218-.230	.022-.028	250
360001	No. 8	.183-.193	.262-.272	.022-.028	250
360002	No. 10	.212-.222	.303-.312	.022-.028	250
360003	¼	.278-.288	.365-.395	.034-.039	100
360004	5⁄16	.346-.356	.457-.490	.034-.039	100
360005	⅜	.415-.425	.550-.582	.044-.051	100
360006	7⁄16	.483-.493	.642-.676	.044-.051	50
360007	½	.552-.562	.735-.770	.057-.063	50
360008	⅝	.689-.699	.921-.958	.071-.082	25
360009	¾	.828-.838	1.107-1.145	.112-.127	25
360010	⅞	.963-.973	1.293-1.332	.112-.127	10
360011	1	1.10-1.11	1.479-1.52	.112-.127	10
360012	1¼	1.36-1.367	1.852-1.875	.112-.127	10

Non-Hardened Flat Washers

Non-Hardened Flat Washers
Narrow (SAE)



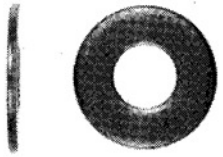
- SAE prime steel
- Meets ANSI B27.2 1965 specifications in dimensions only
- Zinc plated

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Approx. Pcs. per Lb.	Unit
31371	No. 4	⅛	5⁄16	1804	500
MP31371	No. 4	⅛	5⁄16	1804	250
31372	No. 6	5⁄32	⅜	844	500
MP31372	No. 6	5⁄32	⅜	844	250
31373	No. 8	3⁄16	7⁄16	484	500
MP31373	No. 8	3⁄16	7⁄16	484	250
31374	No. 10	7⁄32	½	448	500
MP31374	No. 10	7⁄32	½	448	250
C5677	No. 10	13⁄64	¾	330	100
31375	No. 12	¼	9⁄16	304	500
MP31375	No. 12	¼	9⁄16	304	250
C5680	No. 12	15⁄64	⅞	190	100
KP41001-2	¼	9⁄32	⅝	208	500
31376	¼	9⁄32	⅝	208	250
MP31376	¼	9⁄32	⅝	208	100
KP41002-2	5⁄16	11⁄32	11⁄16	177	500
31377	5⁄16	11⁄32	11⁄16	177	250
KP41002-1	5⁄16	11⁄32	11⁄16	177	100
KP41003-2	⅜	13⁄32	13⁄16	120	500
31378	⅜	13⁄32	13⁄16	120	250
KP41003-1	⅜	13⁄32	13⁄16	120	100
31379	7⁄16	15⁄32	15⁄16	103	100
31386	½	17⁄32	1 1⁄16	38	100
31387	9⁄16	19⁄32	1 3⁄16	34	50
31388	⅝	21⁄32	1 5⁄16	30	50
31389	¾	13⁄16	1½	23	50
31390	⅞	15⁄16	1¾	15	20
31391	1	1 1⁄16	2	12	20
31391-1	1¼	1 5⁄16	2½	6	20
KP41013	1½	1⅝	3	4.25	25

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Approx. Pcs. per Lb.	Unit
31427	No. 4	⅛	5⁄16	1804	2 lbs.
31428	No. 6	5⁄32	⅜	844	2 lbs.
31429	No. 8	3⁄16	7⁄16	484	2 lbs.
31430	No. 10	7⁄32	½	448	2 lbs.
31430-1	No. 12	¼	9⁄16	304	2 lbs.
31431	¼	9⁄32	⅝	208	2 lbs.
31432	5⁄16	11⁄32	11⁄16	177	2 lbs.
31433	⅜	13⁄32	13⁄16	120	2 lbs.
31434	7⁄16	15⁄32	15⁄16	103	2 lbs.
31435	½	17⁄32	1 1⁄16	38	2 lbs.
31436	9⁄16	19⁄32	1 3⁄16	34	2 lbs.
31437	⅝	21⁄32	1 5⁄16	30	2 lbs.
31438	¾	13⁄16	1½	23	2 lbs.
31439	⅞	15⁄16	1¾	15	5 lbs.
31440	1	1 1⁄16	2	12	5 lbs.
31442	1¼	1 5⁄16	2½	6	5 lbs.

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Approx. Pcs. per Lb.	Unit
31444	¼	9⁄32	⅝	208	5 lbs.
31445	5⁄16	11⁄32	11⁄16	177	5 lbs.
31446	⅜	13⁄32	13⁄16	120	5 lbs.
31447	7⁄16	15⁄32	15⁄16	103	5 lbs.
31448	½	17⁄32	1 1⁄16	38	5 lbs.
31449	9⁄16	19⁄32	1 3⁄16	34	5 lbs.
31449-5/8	⅝	21⁄32	1 5⁄16	30	5 lbs.
31449-3/4	¾	13⁄16	1½	23	5 lbs.

Non-Hardened Flat Washers
Wide (USS)



- SAE prime steel
- Meets ANSI B27.2 1965 for dimensions only
- Zinc plated

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Approx. Pcs. per Lb.	Unit
KP1938	No. 6	5⁄32	7⁄16	502	500
KP1938-1	No. 6	5⁄32	7⁄16	502	250
KP1937	No. 8	3⁄16	½	409	500
KP1937-1	No. 8	3⁄16	½	409	250
31300	No. 10	¼	9⁄16	361	500
KP40000-1	No. 10	¼	9⁄16	361	250
KP40000-25	No. 10	¼	9⁄16	361	100
KP40001-2	¼	5⁄16	¾	148	500
31301	¼	5⁄16	¾	148	250
KP40001-1	¼	5⁄16	¾	148	100
KP40002-2	5⁄16	⅜	⅞	86	500
31302	5⁄16	⅜	⅞	86	250
KP40002-1	5⁄16	⅜	⅞	86	100
KP40003-2	⅜	7⁄16	1	68	500
31303	⅜	7⁄16	1	68	250
KP40003-1	⅜	7⁄16	1	68	100
KP40004-2	7⁄16	½	1¼	46	250
31304	7⁄16	½	1¼	46	100
KP40005-2	½	9⁄16	1⅜	28	250
31305	½	9⁄16	1⅜	28	100
31306	9⁄16	⅝	1½	20	50
KP40007-2	⅝	11⁄16	1¾	13	100
31307	⅝	11⁄16	1¾	13	50
31308	¾	13⁄16	2	10	50
31309	⅞	15⁄16	2¼	7	25
31310	1	1 1⁄16	2½	6	25
31311	1⅛	1¼	2¾	5	25
31312	1¼	1⅜	3	4	25
31313	1⅜	1½	3¼	3	10
31314	1½	1⅝	3½	3	10
KP61156	1⅝	1¾	3¾	2.3	25
KP61157	1¾	1⅞	4	2	25
KP61158	2	2⅛	4½	1.6	10

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Approx. Pcs. per Lb.	Unit
31400	No. 10	¼	9⁄16	428	2 lbs.
31401	¼	5⁄16	¾	148	2 lbs.
31402	5⁄16	⅜	⅞	86	2 lbs.
31403	⅜	7⁄16	1	68	2 lbs.
31404	7⁄16	½	1¼	46	2 lbs.
31405	½	9⁄16	1⅜	28	2 lbs.
31406	9⁄16	⅝	1½	20	2 lbs.
31407	⅝	11⁄16	1¾	13	2 lbs.
31408	¾	13⁄16	2	10	2 lbs.

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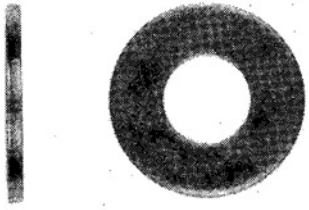
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Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Approx. Pcs. per Lb.	Unit
31411	¼	5⁄16	¾	148	5 lbs.
31412	5⁄16	⅜	⅞	86	5 lbs.
31413	⅜	7⁄16	1	68	5 lbs.
31414	7⁄16	½	1¼	46	5 lbs.
31415	½	9⁄16	1⅜	28	5 lbs.
31416	9⁄16	⅝	1½	20	5 lbs.
31417	⅝	11⁄16	1¾	13	5 lbs.
31418	¾	13⁄16	2	10	5 lbs..
31419	⅞	15⁄16	2¼	7	5 lbs.
31420	1	1 1⁄16	2½	6	5 lbs.
31421	1⅛	1¼	2¾	5	5 lbs.
31422	1¼	1⅜	3	4	5 lbs.
31423	1⅜	1½	3¼	3	5 lbs.
31424	1½	1⅝	3½	3	5 lbs.

Unhardened Galvanized Flat Washers



- Mechanical galvanized plated flat washers are to be used with galvanized Lag Bolts and Carriage Bolts.
- Box Quantity = 1 LB.

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
C97627	¼	5⁄16	¾	1⁄16	160
C97628	5⁄16	⅜	⅞	5⁄64	96
C97629	⅜	7⁄16	7⁄16	3⁄32	74
C97630	½	9⁄16	9⁄16	7⁄64	27

Unhardened Flat Washers Non-Plated

- Standard, low carbon steel flat washer
- Meets ANSI B18.22.1 type A narrow (SAE) and wide (USS) style washers

USS

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
✦CD5582100	No. 8	3⁄16	½	3⁄64	100
✦CD558211	No. 10	¼	9⁄16	3⁄64	500
CD558212	¼	5⁄16	47⁄64	1⁄16	300
✦CD5582120	¼	5⁄16	47⁄64	1⁄16	100
CD558213	5⁄16	⅜	⅞	5⁄64	300
✦CD5582130	5⁄16	⅜	⅞	5⁄64	100
CD558214	⅜	7⁄16	1	5⁄64	300
✦CD5582140	⅜	7⁄16	1	5⁄64	100
CD558215	7⁄16	½	1¼	5⁄64	300
✦CD5582150	7⁄16	½	1¼	5⁄64	100
CD558216	½	9⁄16	1⅜	7⁄64	300
✦CD5582160	½	9⁄16	1⅜	7⁄64	100
CD558217	9⁄16	⅝	1 15⁄32	7⁄64	100
CD558218	⅝	1⁄16	1¾	9⁄64	100
✦CD5582180	⅝	11⁄16	1¾	9⁄64	50
CD558219	¾	13⁄16	2	5⁄32	100
✦CD5582190	¾	13⁄16	2	5⁄32	50
CD558220	⅞	15⁄16	2¼	11⁄64	25
CD558221	1	1 1⁄16	2½	11⁄64	25
CD558222	1⅛	1¼	2¾	11⁄64	20
CD558223	1¼	1⅜	3	11⁄64	20
CD563473	1⅜	1½	3¼	3⁄16	20
CD558224	1½	1⅝	3½	3⁄16	20
CD558225	1¾	1⅞	4	3⁄16	20
CD558226	2	1⅞	4½	3⁄16	20

✦Canada only

SAE

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
CD558441	¼	9⁄32	⅝	3⁄64	300
✦CD5584410	¼	9⁄32	⅝	3⁄64	100
CD558442	5⁄16	11⁄32	11⁄16	1⁄16	300
✦CD5584420	5⁄16	11⁄32	11⁄16	1⁄16	100
CD558443	⅜	13⁄32	13⁄16	1⁄16	300
✦CD5584430	⅜	13⁄32	13⁄16	1⁄16	100
CD558444	7⁄16	15⁄32	59⁄64	1⁄16	300
✦CD5584440	7⁄16	15⁄32	59⁄64	1⁄16	100
CD558445	½	17⁄32	1⅛	3⁄32	300
✦CD5584450	½	17⁄32	1⅛	3⁄32	100
CD558446	9⁄16	19⁄32	1 5⁄32	3⁄32	100
CD558447	⅝	21⁄32	1 5⁄16	3⁄32	50
CD558448	¾	13⁄16	1 15⁄32	9⁄64	50
CD558449	⅞	15⁄16	1¾	9⁄64	25
CD558450	1	1 1⁄16	2	9⁄64	25

✦Canada only

Narrow Rim Machinery Washers

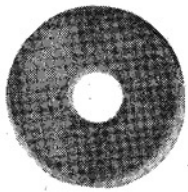


- Use as bushing or spacer
- Zinc plating

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP77957	⅝	21⁄32	1⅛	5⁄64	50
KP61420	¾	49⁄64	1¼	5⁄64	50
KP77958	⅞	15⁄16	1⅜	5⁄64	50
KP61730	1	1 1⁄64	1½	5⁄64	50
KP61423	1⅛	1 9⁄64	1¾	5⁄64	25
KP61425	1¼	1 17⁄64	1⅞	5⁄64	25
KP77959	1⅜	1 27⁄64	2⅛	5⁄64	25
KP61414	1½	1 33⁄64	2¼	5⁄64	25
KP61428	1¾	1 49⁄64	2½	5⁄64	25

Non-Hardened Fender Washers

Fender Washers



- Steel
- Zinc Plated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
C99561	No. 6	5⁄32	¾	1⁄32	100
C99562	No. 8	3⁄16	⅞	3⁄64	100
32710	3⁄16	7⁄32	15⁄16	⅛	50
KP8033	3⁄16	7⁄32	¾	1⁄16	250
32570	3⁄16	7⁄32	1	1⁄16	100
C99564	3⁄16	7⁄32	1¼	3⁄64	100
C99565	3⁄16	7⁄32	1½	3⁄64	100
C85613	¼	5⁄16	⅞	1⁄16	100
32572	¼	9⁄32	1	1⁄16	100
32711	¼	9⁄32	1	⅛	50
32574	¼	9⁄32	1⅛	1⁄16	100
32712	¼	9⁄32	1⅛	⅛	50
32575	¼	9⁄32	1¼	1⁄16	100
32577	¼	9⁄32	1½	1⁄16	100
32713	¼	9⁄32	1½	⅛	50
C99567	¼	9⁄32	2	3⁄64	100
32579	5⁄16	11⁄32	1¼	1⁄16	100
32714	5⁄16	11⁄32	1¼	⅛	50
32578	5⁄16	11⁄32	1½	1⁄16	100
C99569	5⁄16	11⁄32	1⅝	3⁄64	100
32576†	⅜	13⁄32	1¼	3⁄32	100
32715	⅜	7⁄16	1¼	⅛	50
32580	⅜	7⁄16	1½	1⁄16	100
32580-X	⅜	7⁄16	1½	1⁄16	50
C5686	⅜	27⁄64	1⅝	3⁄64	100
32716	⅜	7⁄16	1¾	⅛	50
C99571	⅜	13⁄32	2	3⁄64	100
KP72511	7⁄16	29⁄64	1½	1⁄16	100
32580-1	½	17⁄32	2	1⁄16	50
32717	½	17⁄32	2	⅛	50

†Clipped end type

Black Oxide Flat Washers

Black Oxide Flat Washers Made in U.S.A.



- Thick set-up and fixture washers used in die and jig set-ups
- C1010 Steel
- 25 - 40 RC hardness
- Conforms to TCMAI/NIJFCM standards
- Flatness within .002

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP24264	3⁄16	13⁄64	½	3⁄32	100
KP24265	¼	9⁄32	⅝	⅛	100
KP24266	5⁄16	11⁄32	¾	⅛	100
KP24267	⅜	13⁄32	⅞	⅛	100
KP24268	7⁄16	15⁄32	1	⅛	100
KP24269	½	17⁄32	1⅛	⅛	100
KP24270	⅝	21⁄32	1⅜	⅛	50
KP24271	¾	25⁄32	1⅝	5⁄32	25
KP24272	⅞	29⁄32	1¾	5⁄32	25
KP24273	1	1 1⁄32	2	3⁄16	25

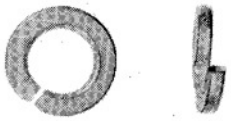
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High Strength Split Lock Washers

Bowmalloy® Lock Washers



- Made in USA
- Meets ANSI/ASME B18.21.1 specifications
- High alloy carbon steel
- Through-hardened
- Mechanical zinc plated with yellow dichromate finish
- Non-linking type

Part No.	Unit	Part No.	Unit	Bolt Size (In.)
KP66155	250	*	*	No. 6
KP66156	250	*	*	No. 8
KP66157	250	*	*	No. 10
KP66158	250	*	*	No. 12
39725	100	36725	200	¼
39726	100	36726	200	5/16
39727	100	36727	200	⅜
39728	50	36728	200	7/16
39729	50	36729	200	½
39730	25	36730	100	9/16
39731	25	36731	100	⅝
39732	25	36732	50	¾
39733	10	36733	50	⅞
39734	10	36734	50	1
39735	10	36735	25	1⅛
39736	10	36736	25	1¼
*	*	36738	10	1½

Grade 8 Lock Washers — Non-Plated



- Made in USA
- Meets ANSI/ASME B18.21.1 specifications
- High carbon alloy steel
- Through-hardened
- Non-plated
- Non-linking type

Part No.	Bolt Size (In.)	Unit
99720	¼	100
99721	5/16	100
99722	⅜	100
99723	7/16	50
99724	½	50
99725	9/16	25
99726	⅝	25
99727	¾	25
99728	⅞	10
99729	1	10
99730	1⅛	10
99731	1¼	10
C713072	1½	10

Grade 5 Lock Washers





- Meets ANSI/ASME B18.21.1 specifications
- High carbon spring steel
- Through-hardened
- Non-linking

Part No.	Bolt Size (In.)	Unit
31320	No. 4	250
31321	No. 6	250
31322	No. 8	250
31323	No. 10	250
31324	No. 12	250
31325	¼	250
MP31325	¼	100
31326	5/16	250
MP31326	5/16	100
31327	⅜	250
MP31327	⅜	100
31328	7/16	250
MP31328	7/16	100
31329	½	250
MP31329	½	100
31330	9/16	100
MP31330	9/16	50
31331	⅝	100
MP31331	⅝	50
31332	¾	50
31333	⅞	50
31334	1	50
31335	1⅛	25
31336	1¼	25
31337	1½	25

Grade 5 Lock Washers — Non-Plated



- Meets ANSI/ASME B18.21.1 specifications
- High carbon spring steel
- Through-hardened
- Non-linking

Part No.	Bolt Size (In.)	Unit
✦CD558250	No. 4	1000
✦CD558251	No. 6	100
✦CD558252	No. 8	500
✦CD558253	No. 10	500
✦CD558254	No. 12	100

Part No.	Bolt Size (In.)	Unit
33560	¼	200
33561	5/16	200
33562	⅜	200
33563	7/16	200
33564	½	200
33565	9/16	100
33566	⅝	100
33567	¾	100
33568	⅞	50
33569	1	50
33569-1	1⅛	50
33569-2	1¼	25
33569-3	1½	10

✦Canada only

Heavy Split Lock Washers

Heavy Section Split Lock Washers



- Zinc plating
- Carbon steel
- Meets ANSI/ASME B18.21.1

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
KP61009	¼	.255 - .263	.491	.077	500
KP61010	5/16	.318 - .328	.596	.097	500
KP61011	⅜	.382 - .393	.691	.115	250
KP61012	7/16	.446 - .459	.787	.133	100
KP61013	½	.509 - .523	.883	.151	100
KP61015	⅝	.636 - .653	1.093	.189	100
KP61016	¾	.763 - .783	1.291	.226	50
KP61017	⅞	.890 - .912	1.494	.266	50
KP61018	1	1.017 - 1.042	1.705	.306	25

Heavy Helical Spring Lock Washers



- Meets ANSI/ASME B18.21.1 specifications
- Non-plated
- Carbon steel

Part No.	Bolt Size (In.)	Unit
33557-3/8	⅜	500
33557-1/2	½	100
33557-5/8	⅝	250
33557-3/4	¾	250
33557-7/8	⅞	100

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High Collar Split Lock Washers

Hi-Collar Lock Washers

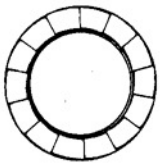


- Meets ASME B18.21.1 specifications
- High carbon steel
- Through-hardened
- Non-plated
- For use with 1960 Series socket head cap screws

Part No.	Bolt Size	Unit
36744-6	No. 6	250
36744-8	No. 8	250
36744-10	No. 10	250
KP61432	No. 12	100
36745-1/4	¼	100
MP36745-1/4	¼	50
36745-5/16	5/16	100
MP36745-5/16	5/16	50
36745-3/8	⅜	100
MP36745-3/8	⅜	50
36745-7/16	7/16	100
MP36745-7/16	7/16	25
36745-1/2	½	100
MP36745-1/2	½	25
36745-5/8	⅝	50
MP36745-5/8	⅝	25
36745-3/4	¾	50
MP36745-3/4	¾	25
36745-7/8	⅞	50
36745-1	1	25

Nord-Lock 2-Piece Lock Washers

Nord Lock Washers

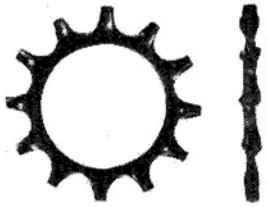


- Carbon steel
- Through-hardened
- Zinc and yellow chromate finish

Part No.	Bolt Size (In.)	I.D. (± .004) (In.)	O.D. (± .004) (In.)	Pair Thickness (± .010) (In.)	Unit (Pairs)
31509	No. 4	.126	.276	.071	200
31510	No. 8*	.169	.354	.071	200
31511	3/16	.205	.354	.071	200
MP31511	3/16	.205	.354	.071	50
31512	¼	.283	.453	.071	200
MP31512	¼	.283	.453	.071	50
31513	5/16	.323	.532	.102	200
MP31513	5/16	.323	.532	.102	25
31514	⅜	.406	.654	.102	200
MP31514	⅜	.406	.654	.102	25
31515	7/16	.449	.728	.102	200
MP31515	7/16	.449	.728	.102	10
31516	½	.531	.768	.102	100
MP31516	½	.531	.768	.102	10
31517	9/16	.571	.906	.146	100
MP31517	9/16	.571	.906	.146	10
31518	⅝	.669	1.000	.146	100
MP31518	⅝	.669	1.000	.146	10
31519	¾	.787	1.210	.146	100
MP31519	¾	.787	1.210	.146	5
31520	⅞	.902	1.358	.146	100
31521	1	1.063	1.535	.146	100
31522	1⅛	1.200	1.850	.189	50
31523	1¼	1.319	1.909	.189	50

Toothed Lock Washers-Steel

Toothed Lock Washers

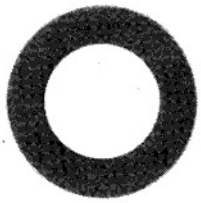


- Carbon spring steel
- Non-plated
- Locking action teeth
- Vibration resistant

Ext. Type Part No.	Int. Type Part No.	Int./Ext. Type Part No.	Countersunk Ext. Part No.	Bolt Size (In.)	Unit
C611120	C611020	*	*	4	100
31340	31350	KP24090	31360	6	100
31341	31351	KP24091	31361	8	100
31342	31352	C14611	31362	10	100
31343	31353	C14602*	KP525	12	100
31344	31354	31369-1/4	31364	¼	100
31345	31355	31369-5/16	31365	5/16	100
31346	31356	31369-3/8	31366	⅜	100
31347	31357	KP24097	*	7/16	100
*	*	*	KP529	7/16	50
31348	31358	C14607	*	½	100
31348-1	*	*	*	9/16	50
31349	31359	*	*	⅝	50
31349-1	31359-1	*	*	¾	50
C86376	C86373	*	*	1	25

Fibre Washers

Fibre Washers



- Vulcanized fibre
- Electrical insulator
- Moisture resistant
- Non-compressable

Part No.	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
31452	⅛	¼	1/32	50
31455	3/16	9/32	1/16	50
31456	3/16	⅜	1/32	50
31457	3/16	⅝	1/64	50
31459	7/32	9/16	1/32	50
C9310	¼	⅜	1/32	100
31461	¼	7/16	1/32	50
31464	9/32	½	3/64	50
31466	5/16	½	1/32	50
31467	5/16	9/16	1/32	50
31469	⅜	9/16	1/32	50
31470	⅜	11/16	3/64	50
31474	½	¾	1/16	25
31475	½	⅞	1/16	25
31476	9/16	⅞	1/16	25
31477	9/16	¾	1/32	25
31480	19/32	1	1/16	25
31481	⅝	⅞	3/64	25
31482	⅝	1	1/16	25
31483	¾	1⅛	3/64	25
31484	¾	1 3/16	1/16	25
31485	⅞	1 3/16	1/16	50
31486	⅞	1 5/16	3/32	25
31487	1	1 5/16	1/16	25
31488	1	1 7/16	3/32	25

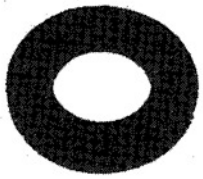
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Die Stamp Washers

Machine Washers
(Die Stamp Washers)



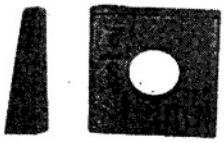
- Case hardened
- Black oxide finish

Part No.	Bolt Size (In.)	I.D (In.)	O.D. (In.)	Thickness (In.)	Unit
31585	3/16	13/64	1/2	3/32	100
31586	1/4	9/32	5/8	1/8	100
31587	5/16	11/32	3/4	1/8	100
31588	3/8	13/32	7/8	1/8	100
31589	7/16	15/32	1	1/8	100
31590	1/2	17/32	1 1/8	1/8	100
31591	5/8	21/32	1 3/8	1/8	100
31592	3/4	26/32	1 5/8	5/32	100

Square Beveled Washers

Square Beveled Washers

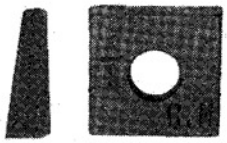
(Hardened)



- A325 hardened

Part No.	Screw Size (In.)	Hole Size (In.)	Square Size (In.)	Unit
31900-1/2	1/2	17/32	1 3/4	50
31900-5/8	5/8	11/16	1 3/4	50
31900-3/4	3/4	13/16	1 3/4	50
31900-7/8	7/8	15/16	1 3/4	50

Square Beveled Washers

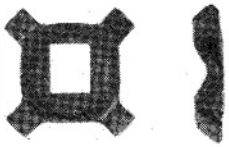


- Malleable iron
- Non-plated
- For structural and mechanical uses such as shimming and leveling

Part No.	Screw Size	Hole Size (In.)	Square Size (In.)	Unit
32790	1/4	5/16	11/16	50
MP32790	1/4	5/16	11/16	25
32791	5/16	3/8	1	50
MP32791	5/16	3/8	1	25
32792	3/8	7/16	1 1/4	50
MP32792	3/8	7/16	1 1/4	25
32793	1/2	9/16	1 1/4	50
MP32793	1/2	9/16	1 1/4	10
32794	5/8	11/16	1 1/2	50
MP32794	5/8	11/16	1 1/2	10
32795	3/4	13/16	1 1/2	50
MP32795	3/4	13/16	1 1/2	10
32796	7/8	15/16	2	50
MP32796	7/8	15/16	2	10
32797	1	1 3/32	2	25
MP32797	1	1 3/32	2	10
32798	1 1/4	1 11/32	2 1/2	25

Brake Step Washers

Round Brake Step Washers with Prongs

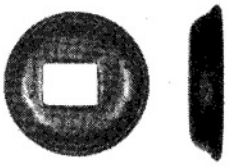


- Carbon steel
- 13 gauge
- Zinc galvanized plating
- Used with 1/2" diameter bolt

Part No.	Description	Unit
108-04	Round Brake Step Washers with Prongs	100

Bolt Seats

Bolt Seats



- Carbon steel
- 13 gauge
- Zinc galvanized plating
- Used with 1/2" diameter bolt to secure grating channels to structural supports

Part No.	Description	Unit
108-02	Bolt Seats	100

316 Cap Screws

316 Stainless Steel Hex Head Cap Screws



- UNC (USS)
- Meets ASTM F593-95 specifications
- Cold worked

Part No.	Dia. - TPI	Length (In.)	Unit
30570	1/4-20	1/2	100
MP30570	1/4-20	1/2	50
30571	1/4-20	5/8	100
30572	1/4-20	3/4	100
MP30572	1/4-20	3/4	50
30572-1	1/4-20	7/8	100
30573	1/4-20	1	100
MP30573	1/4-20	1	50
30574	1/4-20	1 1/4	100
MP30574	1/4-20	1 1/4	50
30575	1/4-20	1 1/2	100
MP30575	1/4-20	1 1/2	50
30576	1/4-20	1 3/4	100
MP30576	1/4-20	1 3/4	50
30577	1/4-20	2	100
MP30577	1/4-20	2	50
30577-1	1/4-20	2 1/4	100
MP30577-1	1/4-20	2 1/4	25
30578	1/4-20	2 1/2	100
MP30578	1/4-20	2 1/2	25
30578-1	1/4-20	2 3/4	100
MP30578-1	1/4-20	2 3/4	25
30579	1/4-20	3	100
MP30579	1/4-20	3	25
30579-1	1/4-20	3 1/2	50

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Continued from previous page

Part No.	Dia. - TPI	Length (In.)	Unit
MP30579-1	¼-20	3½	25
30579-2	¼-20	4	50
MP30579-2	¼-20	4	25
KP24846	¼-20	4½	25
KP24847	¼-20	5	25

Part No.	Dia. - TPI	Length (In.)	Unit
30580	5⁄16-18	½	100
MP30580	5⁄16-18	½	50
30581	5⁄16-18	⅝	100
30582	5⁄16-18	¾	100
MP30582	5⁄16-18	¾	50
30582-1	5⁄16-18	⅞	100
30583	5⁄16-18	1	100
MP30583	5⁄16-18	1	50
30584	5⁄16-18	1¼	100
MP30584	5⁄16-18	1¼	50
30585	5⁄16-18	1½	100
MP30585	5⁄16-18	1½	50
30586	5⁄16-18	1¾	100
MP30586	5⁄16-18	1¾	50
30587	5⁄16-18	2	100
MP30587	5⁄16-18	2	50
30588	5⁄16-18	2¼	100
MP30588	5⁄16-18	2¼	25
30589	5⁄16-18	2½	100
MP30589	5⁄16-18	2½	25
30589-1	5⁄16-18	2¾	100
MP30589-1	5⁄16-18	2¾	25
30586-1	5⁄16-18	3	100
MP30586-1	5⁄16-18	3	25
30589-3	5⁄16-18	3½	50
MP30589-3	5⁄16-18	3½	10
30589-4	5⁄16-18	4	50
MP30589-4	5⁄16-18	4	10
KP24852	5⁄16-18	4½	25
KP24853	5⁄16-18	5	25

Part No.	Dia. - TPI	Length (In.)	Unit
30590	⅜-16	½	100
MP30590	⅜-16	½	50
C24514	⅜-16	⅝	25
30591	⅜-16	¾	100
MP30591	⅜-16	¾	50
KP24856	⅜-16	⅞	100
30592	⅜-16	1	100
MP30592	⅜-16	1	50
30593	⅜-16	1¼	100
MP30593	⅜-16	1¼	50
30594	⅜-16	1½	100
MP30594	⅜-16	1½	50
30595	⅜-16	1¾	100
MP30595	⅜-16	1¾	25
30596	⅜-16	2	100
MP30596	⅜-16	2	25
30597	⅜-16	2¼	100
MP30597	⅜-16	2¼	25
30598	⅜-16	2½	50
MP30598	⅜-16	2½	10
30598-23/4	⅜-16	2¾	50
30599-3	⅜-16	3	50
MP30599-3	⅜-16	3	10
30599-2	⅜-16	3½	50
MP30599-2	⅜-16	3½	10
30600	⅜-16	4	50
MP30600	⅜-16	4	10
KP24862	⅜-16	4½	25
KP24863	⅜-16	5	25

Part No.	Dia. - TPI	Length (In.)	Unit
30561	7⁄16-14	1	50
MP30561	7⁄16-14	1	10
30562	7⁄16-14	1¼	50
30563	7⁄16-14	1½	50
MP30563	7⁄16-14	1½	10
30565	7⁄16-14	2	50
MP30565	7⁄16-14	2	10
C24532	7⁄16-14	2½	10
30567	7⁄16-14	3	50
MP30567	7⁄16-14	3	10

Part No.	Dia. - TPI	Length (In.)	Unit
30600-1	½-13	¾	50
30601	½-13	1	50
MP30601	½-13	1	25
30601-11/4	½-13	1¼	50
MP30601-11/4	½-13	1¼	25
30602	½-13	1½	50
MP30602	½-13	1½	25
30602-13/4	½-13	1¾	50
MP30602-13/4	½-13	1¾	25
30603	½-13	2	50
MP30603	½-13	2	25
30603-21/4	½-13	2¼	50
MP30603-21/4	½-13	2¼	10
30604	½-13	2½	50
MP30604	½-13	2½	10
30604-23/4	½-13	2¾	50
30604-X	½-13	3	50
MP30604-X	½-13	3	10
30604-31/4	½-13	3¼	25
30604-1X	½-13	3½	25
MP30604-1X	½-13	3½	10
30604-33/4	½-13	3¾	25
30604-2X	½-13	4	25
MP30604-2X	½-13	4	10
30604-3X	½-13	4½	25
MP30604-3X	½-13	4½	10
30604-4X	½-13	5	25
MP30604-4X	½-13	5	10
30604-51/2	½-13	5½	25
30604-5X	½-13	6	25

Part No.	Dia. - TPI	Length (In.)	Unit
30604-1	⅝-11	1	25
30604-2	⅝-11	1¼	25
30604-3	⅝-11	1½	25
30604-4	⅝-11	1¾	25
30604-5	⅝-11	2	25
MP30604-5	⅝-11	2	10
30604-21/4	⅝-11	2¼	10
30604-7	⅝-11	2½	10
30604-8	⅝-11	2¾	10
30604-9	⅝-11	3	10
30604-10	⅝-11	3½	10
30604-11	⅝-11	4	10
30604-26	⅝-11	4½	10
30604-13	⅝-11	5	10
30604-6	⅝-11	5½	10
30604-27	⅝-11	6	10

Part No.	Dia. - TPI	Length (In.)	Unit
C24560	¾-10	1	5
C24561	¾-10	1¼	5
30604-12	¾-10	1½	10
30604-14	¾-10	2	10
30604-15	¾-10	2¼	10
30604-16	¾-10	2½	10
30604-17	¾-10	2¾	10
30604-18	¾-10	3	10
30604-25	¾-10	3¼	10

Part No.	Dia. - TPI	Length (In.)	Unit
30604-19	¾-10	3½	10
30604-20	¾-10	4	10
30604-21	¾-10	4½	5
30604-22	¾-10	5	5
30604-23	¾-10	5½	5
30604-24	¾-10	6	5

Part No.	Dia. - TPI	Length (In.)	Unit
30604-30	⅞-9	1½	10
30604-31	⅞-9	2	10
30604-32	⅞-9	2½	5
30604-33	⅞-9	3	5
30604-34	⅞-9	3½	5
30604-35	⅞-9	4	5
KP24885	⅞-9	4½	5
30604-37	⅞-9	5	5
30604-38	⅞-9	5½	5
30604-39	⅞-9	6	5

Part No.	Dia. - TPI	Length (In.)	Unit
30604-40	1-8	2	5
30604-41	1-8	2½	5
KP24888	1-8	2¾	5
30604-42	1-8	3	5
30604-43	1-8	3½	5
30604-44	1-8	4	5
30604-45	1-8	4½	1
30604-46	1-8	5	1
30604-47	1-8	5½	1
30604-48	1-8	6	1

316 Stainless Steel Hex Nuts



- UNC (USS) or UNF (SAE)
- Cold worked
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
30605	¼-20	30617	¼-28	100
MP30605	¼-20	*	¼-28	50
30606	5⁄16-18	30618	5⁄16-24	100
MP30606	5⁄16-18	*	5⁄16-24	50
30607	⅜-16	30619	⅜-24	100
MP30607	⅜-16	*	⅜-24	50
30608	7⁄16-14	*	7⁄16-20	50
MP30608	7⁄16-14	*	7⁄16-20	50
30609	½-13	30621	½-20	50
MP30609	½-13	*	½-20	50
30609-1	⅝-11	*	⅝-18	50
MP30609-1	⅝-11	*	⅝-18	25
30609-2	¾-10	*	¾-16	50
MP30609-2	¾-10	*	¾-16	25
30609-3	⅞-9	*	⅞-14	25
30609-4	1-8	*	1-12	25

* Item not available

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316 Stainless Steel Flat Washers
Narrow (SAE)



- Meets ANSI/ASME B18.22.1 specifications
- Cold worked
- Passivated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
30705	No. 4	.125	.312	.040	100
30706	No. 6	.156	.375	.065	100
30707	No. 8	.188	.438	.065	100
30708	No. 10	.219	.500	.065	100
30709	No. 12	.250	.562	.080	100
30710	¼	.281	.625	.068	100
C24656	¼	.281	.625	.080	50
30711	5/16	.344	.688	.086	100
C24657	5/16	.344	.688	.086	50
30712	⅜	.406	.812	.100	100
C24658	⅜	.406	.812	.100	25
30712-1	7/16	.469	.922	.101	100
C24659	7/16	.469	.922	.101	25
30713	½	.531	1.062	.118	100
C24660	½	.531	1.062	.182	10
30714	5/8	.656	1.312	.121	50
30714-T	5/8	.656	1.312	.182	10
30715	¾	.812	1.469	.160	50
30715-T	¾	.812	1.469	.182	10
30716	⅞	.935	1.750	.192	25
30717	1	1.062	2.000	.192	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
30705	0.008	0.005	0.008	0.005	0.025	0.040
30706	0.008	0.005	0.015	0.005	0.036	0.065
30707	0.008	0.005	0.015	0.005	0.036	0.065
30708	0.008	0.005	0.015	0.005	0.036	0.065
30709	0.008	0.005	0.015	0.005	0.051	0.080
30710	0.015	0.005	0.015	0.005	0.051	0.080
C24656	0.015	0.005	0.015	0.005	0.064	0.104
30711	0.015	0.005	0.015	0.005	0.051	0.080
C24657	0.015	0.005	0.015	0.005	0.064	0.104
30712	0.015	0.005	0.015	0.007	0.051	0.080
C24658	0.015	0.005	0.015	0.007	0.051	0.080
30712-1	0.015	0.005	0.015	0.007	0.051	0.080
C24659	0.015	0.005	0.015	0.007	0.051	0.080
30713	0.015	0.005	0.030	0.007	0.074	0.121
C24660	0.015	0.005	0.030	0.007	0.153	0.213
30714	0.030	0.007	0.030	0.007	0.074	0.121
30714-T	0.030	0.007	0.030	0.007	0.153	0.213
30715	0.030	0.007	0.030	0.007	0.108	0.160
30715-T	0.030	0.007	0.030	0.007	0.153	0.213
30716	0.030	0.007	0.030	0.007	0.136	0.192
30717	0.030	0.007	0.030	0.007	0.136	0.192

316 Stainless Steel Flat Washers
Wide (USS)



- Meets ANSI/ASME B18.22.1 dimensional specifications
- Cold worked
- Passivated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
30800	¼	.312	.734	.065	100
30801	5/16	.375	.875	.083	100
30802	⅜	.391	1.000	.083	100
30803	7/16	.500	1.250	.083	100
30804	½	.563	1.250	.109	100
30805	5/8	.688	1.500	.134	50
MP30805	5/8	.688	1.500	.134	10
30806	¾	.812	1.875	.148	50
MP30806	¾	.812	1.875	.148	10
30807	⅞	.937	2.250	.165	25
30808	1	1.062	2.500	.165	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
30800	0.015	0.005	0.015	0.007	0.051	0.080
30801	0.015	0.005	0.030	0.007	0.064	0.104
30802	0.015	0.005	0.030	0.007	0.064	0.104
30803	0.015	0.005	0.030	0.007	0.064	0.104
30804	0.015	0.005	0.030	0.007	0.086	0.132
30805	0.030	0.007	0.030	0.007	0.108	0.160
MP30805	0.030	0.007	0.007	0.030	0.108	0.160
30806	0.030	0.007	0.030	0.007	0.122	0.177
MP30806	0.030	0.007	0.007	0.030	0.122	0.177
30807	0.030	0.007	0.030	0.007	0.136	0.192
30808	0.030	0.007	0.030	0.007	0.136	0.192

316 Stainless Steel Lock Washers



- Meets ASME B18.21.1 specifications
- Cold worked

Part No.	Bolt Size (In.)	Unit
30720	¼	100
30721	5/16	100
30722	⅜	100
30722-1	7/16	100
MP30722-1	7/16	50
30723	½	100
MP30723	½	50
30724	5/8	50
30725	¾	25
30726	⅞	25
30727	1	25

18-8 Cap Screws

Stainless Steel (18-8) Hex Head Cap Screws



- UNC (USS) or UNF (SAE)
- Meets ASTM F593-95 specifications
- 304 or XM7 stainless steel
- Cold worked

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia. (In.)	Length (In.)	Unit
92301	*	¼	⅜	50
92302	92702	¼	½	50
92302-1	*	¼	5/8	50
92303	92703	¼	¾	50
92303-1	*	¼	⅞	50
92304	92704	¼	1	50
92305	*	¼	1¼	50
*	KP79855	¼	1¼	100
92306	92706	¼	1½	50
92307	*	¼	1¾	50
92308	92708	¼	2	50
92309	*	¼	2¼	50
92310	92710	¼	2½	50
MP92310	*	¼	2½	25
92311	*	¼	2¾	50
92312	*	¼	3	50
MP92312	*	¼	3	25
92312-1	*	¼	3¼	50
92313	*	¼	3½	50
MP92313	*	¼	3½	25
92314	*	¼	4	50
MP92314	*	¼	4	25
92315	*	¼	4½	25
92316	*	¼	5	25
C24586	*	¼	6	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
92318	92718	5/16	½	50
92318-1	*	5/16	5/8	50
92319	92719	5/16	¾	50
92319-1	*	5/16	⅞	50
92320	92720	5/16	1	50
92321	92721	5/16	1¼	50
MP92321	*	5/16	1¼	25
92322	92722	5/16	1½	50
MP92322	*	5/16	1½	25
92323	*	5/16	1¾	50
*	*	5/16	1¾	25
92324	92724	5/16	2	50
MP92324	*	5/16	2	25
92325	*	5/16	2¼	50
92326	92726	5/16	2½	50
MP92326	*	5/16	2½	10
92327	*	5/16	2¾	50
92328	*	5/16	3	50

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Continued from previous page

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
MP92328	*	5/16	3	10
92328-1	*	5/16	3¼	50
92329	*	5/16	3½	50
MP92329	*	5/16	3½	10
92330	*	5/16	4	50
MP92330	*	5/16	4	10
92331	*	5/16	4½	50
92332	*	5/16	5	50
92332-1	*	5/16	5½	50
92333	*	5/16	6	50

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia. (In.)	Length (In.)	Unit
92334	92734	3/8	½	50
92334-1	*	3/8	5/8	50
92335	92735	3/8	¾	50
92336	92736	3/8	1	50
92337	*	3/8	1¼	50
MP92337	*	3/8	1¼	25
*	KP79877	3/8	1¼	100
92338	92738	3/8	1½	50
MP92338	*	3/8	1½	25
92339	*	3/8	1¾	25
92340	92740	3/8	2	25
92341	*	3/8	2¼	25
92342	92742	3/8	2½	25
MP92342	*	3/8	2½	10
92343	*	3/8	2¾	25
92344	*	3/8	3	25
MP92344	*	3/8	3	10
92344-1	*	3/8	3¼	25
92345	*	3/8	3½	25
MP92345	*	3/8	3½	10
92345-1	*	3/8	3¾	25
92346	*	3/8	4	25
MP92346	*	3/8	4	10
92347	*	3/8	4½	25
92348	*	3/8	5	25
92349	*	3/8	5½	25
92350	*	3/8	6	25
92350-1	*	3/8	6½	25
92351	*	3/8	8	25
92353	*	3/8	9	25

UNC Part No. TPI-14	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
92385-1	*	7/16	¾	25
92385-2	92785-2	7/16	1	25
MP92385-2	*	7/16	1	10
92386	*	7/16	1¼	25
92387	92787	7/16	1½	25
MP92387	*	7/16	1½	10
92388	*	7/16	1¾	25
92390	92790	7/16	2	25
MP92390	*	7/16	2	10
92390-3	*	7/16	2¼	25
92390-1	*	7/16	2½	25
MP92390-1	*	7/16	2½	10
92390-2	*	7/16	3	25
MP92390-2	*	7/16	3	10
92391	*	7/16	3½	25
MP92391	*	7/16	3½	10
92391-1	*	7/16	4	25
MP92391-1	*	7/16	4	10
92392	*	7/16	4½	10
92392-1	*	7/16	5	10

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia. (In.)	Length (In.)	Unit
92352	*	½	¾	25
92354	92754	½	1	25
92355	*	½	1¼	25
*	KP79884	½	1¼	50
92358	92755	½	1½	25
92359	*	½	1¾	25
92360	92760	½	2	25
MP92360	*	½	2	10
92361	*	½	2¼	25
92362	*	½	2½	25
MP92362	*	½	2½	10
*	KP79888	½	2½	50
92363	*	½	2¾	25
92364	92764	½	3	25
MP92364	*	½	3	10
92364-1	*	½	3¼	25
92365	*	½	3½	25
MP92365	*	½	3½	10
92366	*	½	4	25
MP92366	*	½	4	10
92366-1	*	½	4½	10
92367	*	½	5	10
92367-1	*	½	5½	10
92368	*	½	6	10
92369	*	½	7	10

UNC Part No. TPI-12	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
92370	*	9/16	2½	25

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia. (In.)	Length (In.)	Unit
92371	*	5/8	1	10
92372	*	5/8	1¼	10
92373	*	5/8	1½	10
92374	*	5/8	1¾	10
92375	*	5/8	2	10
92376	*	5/8	2¼	10
92377	*	5/8	2½	10
92378	*	5/8	2¾	10
92379	*	5/8	3	10
92380	*	5/8	3½	10
92381	*	5/8	4	10
92382	*	5/8	4½	10
92383	*	5/8	5	10
92384	*	5/8	5½	10
92385	*	5/8	6	10

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia. (In.)	Length (In.)	Unit
92393	*	¾	1½	10
92394	*	¾	1¾	10
92395	*	¾	2	10
92396	*	¾	2¼	10
92397	*	¾	2½	10
92398	*	¾	2¾	10
92399	*	¾	3	10
92399-1	*	¾	3¼	10
92400	*	¾	3½	10
92401	*	¾	4	10
92401-1	*	¾	4½	10
92402	*	¾	5	10
92402-1	*	¾	5½	10
92403	*	¾	6	10
92404	*	¾	7½	10

UNC Part No. TPI-9	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
92405	*	1/8	1½	5
92407	*	1/8	2	5
92409	*	1/8	2½	5
92411	*	1/8	3	5
92413	*	1/8	3½	5
92415	*	1/8	4	5
92416	*	1/8	4½	5
92417	*	1/8	5	5
92418	*	1/8	5½	5
92419	*	1/8	6	5

UNC Part No. TPI-8	UNF Part No. TPI-14	Dia. (In.)	Length (In.)	Unit
92420	*	1	2	5
92420-1	*	1	2½	5
92421	*	1	3	5
92421-1	*	1	3½	5
92422	*	1	4	5
92422-1	*	1	4½	5
92423	*	1	5	5
92423-1	*	1	5½	5
92424	*	1	6	1

* Item Not Available

Stainless Steel (18-8) Hex Nuts



- UNC (USS) or UNF (SAE)
- Meets ANSI/ASME B18.6.3 dimensional specifications
- 304 or XM7 stainless steel
- Cold worked
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP77822	No. 2-56	*		50
93602	No. 4-40	*	No. 4-48	100
93603	No. 6-32	*	No. 6-40	100
93604	No. 8-32	*	No. 8-36	100
93605	No. 10-24	93607	No. 10-32	100
93605-2	No. 12-24	*	No. 12-32	100
93606	¼-20	92806	¼-28	100
MP93606	¼-20	*	¼-28	50
**KP1123	¼-20	*		50
93609	5/16-18	92809	5/16-24	100
MP93609	5/16-18	*	5/16-24	50
93611	3/8-16	92811	3/8-24	100
MP93611	3/8-16	*	3/8-24	50
93611-1	7/16-14	92812	7/16-20	100
MP93611-1	7/16-14	*	7/16-20	25
93613	½-13	92813	½-20	100
MP93613	½-13	*	½-20	25
93614	5/8-11	*	5/8-18	50
MP93614	5/8-11	*	5/8-18	25
93615	¾-10	*	¾-16	25
93616	7/8-9	*	7/8-14	25
MP93616	7/8-14	*	1/8-14	10
93617	1-8	*	1-14	25
MP93617	1-8	*	1-14	5

* Item not available

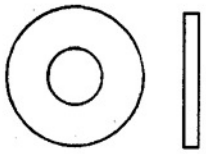
** Thin style for machine screws

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Stainless Steel (18-8) Flat Washers
Narrow (SAE)



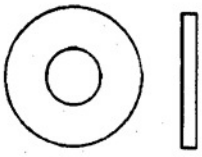
- Meets ANSI/ASME B 18.22.1 dimensional specifications
- 304 stainless steel
- Cold worked
- Passivated

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
KP77670	No. 2	.094	.188	.025	100
93760	No. 4	.125	.312	.032	100
93761	No. 6	.156	.375	.049	100
93762	No. 8	.188	.375	.049	100
93763	No. 10	.219	.445	.049	100
93764	No. 12	.257	.568	.065	100
93765	¼	.281	.625	.065	100
93766	5⁄16	.344	.688	.065	100
93767	⅜	.406	.812	.065	100
93767-1	7⁄16	.469	.922	.065	100
MP93767-1	7⁄16	.469	.922	.065	50
93769	½	.531	1.062	.095	100
MP93769	½	.531	1.062	.095	50
93770	⅝	.656	1.312	.095	50
93771	¾	.812	4.469	.134	25
93771-7/8	⅞	.938	1.750	.134	25
93771-1	1	1.062	2.000	.134	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
KP77670	0.000	0.005	0.000	0.005	0.022	0.028
93760	0.008	0.005	0.008	0.005	0.025	0.040
93761	0.008	0.005	0.015	0.005	0.036	0.065
93762	0.008	0.005	0.015	0.005	0.036	0.065
93763	0.008	0.005	0.015	0.005	0.036	0.065
93764	0.008	0.005	0.015	0.005	0.051	0.080
93765	0.015	0.005	0.015	0.005	0.051	0.080
93766	0.015	0.005	0.015	0.005	0.051	0.080
93767	0.015	0.005	0.015	0.005	0.051	0.080
93767-1	0.015	0.005	0.015	0.005	0.051	0.080
MP93767-1	0.015	0.005	0.015	0.005	0.051	0.080
93769	0.015	0.005	0.030	0.007	0.074	0.121
MP93769	0.015	0.007	0.030	0.007	0.074	0.121
93770	0.030	0.007	0.030	0.007	0.074	0.121
93771	0.030	0.007	0.030	0.007	0.108	0.160
93771-7/8	0.030	0.007	0.030	0.007	0.108	0.160
93771-1	0.030	0.007	0.030	0.007	0.108	0.160

Stainless Steel (18-8) Flat Washers
Wide (USS)



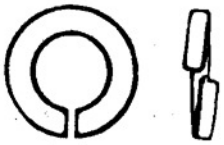
- Meets ANSI/ASME B 18.22.1 dimensional specifications
- 304 stainless steel
- Cold worked
- Passivated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
KP77824	No. 2	.094	.250	.032	100
KP86842	No. 3	.109	.312	.032	100
KP77825	No. 4	.125	.375	.041	100
KP71055	No. 6	.156	.438	.041	100
KP71056	No. 8	.188	.50	.041	100
KP71057	No. 10	.203	.562	.041	100
93700	¼	.312	.734	.065	100
93701	5⁄16	.375	.875	.088	100
93702	⅜	.438	1.000	.083	100
93703	7⁄16	.500	1.250	.083	100
93704	½	.562	1.375	.109	100
93705	⅝	.688	1.750	.134	50
93706	¾	.812	2.000	.148	50
93707	⅞	.938	2.250	.165	25
93708	1	1.062	2.500	.165	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
KP77824	0.000	0.005	0.000	0.005	0.028	0.036
KP86842	0.000	0.005	0.000	0.005	0.08	0.036
KP77825	0.008	0.005	0.008	0.005	0.036	0.045
KP71055	0.008	0.005	0.008	0.005	0.036	0.045
KP71056	0.008	0.005	0.008	0.005	0.036	0.045
KP71057	0.008	0.005	0.008	0.005	0.036	0.045
93700	0.015	0.005	0.015	0.007	0.051	0.080
93701	0.015	0.005	0.030	0.007	0.064	0.104
93702	0.015	0.005	0.030	0.007	0.064	0.104
93703	0.015	0.005	0.030	0.007	0.064	0.104
93704	0.015	0.005	0.030	0.007	0.086	0.160
93705	0.030	0.007	0.030	0.007	0.108	0.160
93706	0.030	0.007	0.030	0.007	0.122	0.177
93707	0.030	0.007	0.030	0.007	0.095	0.115
93708	0.030	0.007	0.030	0.007	0.115	0.135

Stainless Steel (18-8) Lock Washers



- 304 stainless steel
- Cold worked
- Passivated
- Non-linking type

Part No.	Bolt Size	Unit
KP77826	No. 2	100
93772	No. 4	200
93773	No. 6	200
93774	No. 8	200
93775	No. 10	100
93776	No. 12	100
93777	¼	100
93778	5⁄16	100
93779	⅜	100
93779-1	7⁄16	100
MP93779-1	7⁄16	50
93781	½	100
MP93781	½	50
93782	⅝	50
93783	¾	25
93784	⅞	25
93785	1	25

Bolts

Stainless Steel (18-8) Carriage Bolts



- UNC (USS)
- Meets ANSI/ASME B18.5 specifications except threaded to the square
- 302 or 304 stainless steel
- Passivated
- Round head/square neck

UNC (USS) Part No.	Dia.-TPI	Length (In.)	Unit
NS-93300	¼-20	½	25
93301	¼-20	¾	25
93302	¼-20	1	25
C31273	¼-20	1¼	50
93303	¼-20	1½	25
93304	¼-20	2	25
NS-93304-1	¼-20	2¼	25
93305	¼-20	2½	25
93306	¼-20	3	25
NS-93306-1	¼-20	3½	25
93307	¼-20	4	25

UNC (USS) Part No.	Dia.-TPI	Length (In.)	Unit
93310	5⁄16-18	¾	25
93311	5⁄16-18	1	25
KP549	5⁄16-18	1¼	50
93312	5⁄16-18	1½	25
93313	5⁄16-18	2	25
93314	5⁄16-18	2½	25
93315	5⁄16-18	3	25
93316	5⁄16-18	3½	25
93317	5⁄16-18	4	25
NS-93319	5⁄16-18	5	25

UNC (USS) Part No.	Dia.-TPI	Length (In.)	Unit
93321	⅜-16	¾	25
93322	⅜-16	1	25
KP561	⅜-16	1¼	25
93323	⅜-16	1½	25
93324	⅜-16	2	25
93325	⅜-16	2½	25
93326	⅜-16	3	25
93327	⅜-16	3½	25
93328	⅜-16	4	25
NS-93328-1	⅜-16	4½	25
NS-93329-1	⅜-16	5½	25

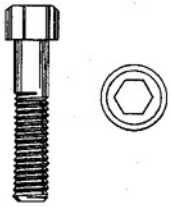
UNC (USS) Part No.	Dia.-TPI	Length (In.)	Unit
93334	½-13	1	25
NS-93334-1	½-13	1¼	25
93335	½-13	1½	25
93336	½-13	2	25
93337	½-13	2½	25
93338	½-13	3	25
93339	½-13	3½	25
93340	½-13	4	25
NS-93340-1	½-13	4½	25
93341	½-13	5	25
NS-93342	½-13	5½	25

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Stainless Steel (18-8) Socket Head Cap Screws



- UNC (USS) or UNF (SAE)
- Meets ANSI/ASME B.18.3 specifications
- 302, 304 or XM7 stainless steel
- Passivated

UNC Part No. TPI-56	UNF Part No. TPI-64	Dia.	Length (In.)	Unit
¤92100-3	*	No. 2	1/8	100
¤92101	*	No. 2	3/16	100
92102	*	No. 2	1/4	100
¤92103	*	No. 2	5/16	100
92104	*	No. 2	3/8	100
¤92105	*	No. 2	7/16	100
¤92106	*	No. 2	1/2	100
¤92106-1	*	No. 2	5/8	100
92107	*	No. 2	3/4	100
¤92107-1	*	No. 2	7/8	100
¤92107-2	*	No. 2	1	100

UNC Part No. TPI-48	UNF Part No. TPI-56	Dia.	Length (In.)	Unit
¤92107-3	*	No. 3	3/16	100
¤92107-4	*	No. 3	1/4	100
¤92107-5	*	No. 3	3/8	100
¤92107-6	*	No. 3	1/2	100

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
92109	*	No. 4	3/16	50
92110	*	No. 4	1/4	50
92111	*	No. 4	5/16	50
92112	*	No. 4	3/8	50
92113	*	No. 4	1/2	50
92114	*	No. 4	5/8	50
92115	*	No. 4	3/4	50
92117	*	No. 4	1	25
92118	*	No. 4	1 1/4	25
92119	*	No. 4	1 1/2	25

UNC Part No. TPI-40	UNF Part No. TPI-44	Dia.	Length (In.)	Unit
92121	*	No. 5	3/8	50

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
92000-1	*	No. 6	3/16	50
92000	*	No. 6	1/4	50
92001	*	No. 6	5/16	50
92001-1	*	No. 6	3/8	50
92001-2	*	No. 6	7/16	50
92002	*	No. 6	1/2	50
92003	*	No. 6	5/8	50
92004	*	No. 6	3/4	50
92004-1	*	No. 6	7/8	25
92004-2	*	No. 6	1	25
92004-3	*	No. 6	1 1/4	10
92004-4	*	No. 6	1 1/2	10
92004-6	*	No. 6	2	10

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
92005-3	*	No. 8	3/16	50
92006	*	No. 8	1/4	25
92005	*	No. 8	5/16	25
92005-1	*	No. 8	3/8	25
92007	*	No. 8	7/16	25
92008	*	No. 8	1/2	25
92009	*	No. 8	5/8	25
92010	*	No. 8	3/4	25
92011	*	No. 8	7/8	25
92012	*	No. 8	1	25
92013	*	No. 8	1 1/4	10
92014	*	No. 8	1 1/2	10
92014-2	*	No. 8	1 3/4	10
92014-1	*	No. 8	2	10

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
*	93012	No. 10	3/16	50
92014-3	93013	No. 10	1/4	50
92015	93015	No. 10	3/8	25
92016	93016	No. 10	1/2	25
92017	93017	No. 10	5/8	25
92018	93018	No. 10	3/4	25
92019	93018-1	No. 10	7/8	25
92020	93020	No. 10	1	25
92021	93021	No. 10	1 1/4	25
92022	93022	No. 10	1 1/2	25
92023	93023	No. 10	1 3/4	10
92023-1	93024	No. 10	2	10

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
92024-3	*	1/4	1/4	50
92024	92037-8	1/4	3/8	50
92024-1	*	1/4	7/16	25
92025	92037-2	1/4	1/2	25
92027	92037-3	1/4	5/8	25
92028	92037-4	1/4	3/4	25
92029	*	1/4	7/8	25
92030	92037-5	1/4	1	25
92031	92037-6	1/4	1 1/4	25
92032	92037-7	1/4	1 1/2	25
92033	*	1/4	1 3/4	25
92034	*	1/4	2	25
92034-1	*	1/4	2 1/4	25
92035	*	1/4	2 1/2	10
92036	*	1/4	3	10
92037	*	1/4	3 1/2	10
92037-1	*	1/4	4	10

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
92038	*	5/16	3/8	25
92039	*	5/16	1/2	25
92039-1	*	5/16	5/8	25
92040	92050	5/16	3/4	25
92041	92050-1	5/16	1	25
92042	*	5/16	1 1/4	25
92043	92051-1	5/16	1 1/2	25
92044	*	5/16	1 3/4	25
92045	*	5/16	2	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
92046	*	5/16	2 1/4	25
92047	*	5/16	2 1/2	10
92049	*	5/16	3	10

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
92052	*	3/8	1/2	10
92053	*	3/8	5/8	10
92054	92072	3/8	3/4	10
92056-1	*	3/8	7/8	10
92056	*	3/8	1	10
92057	92075	3/8	1 1/4	10
92058	92076	3/8	1 1/2	10
92058-1	*	3/8	1 3/4	10
92059	*	3/8	2	10
92060	*	3/8	2 1/4	10
92061	*	3/8	2 1/2	10
92063	*	3/8	3	10

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
92084	*	1/2	3/4	10
92084-1	*	1/2	7/8	10
92085	*	1/2	1	10
92086	*	1/2	1 1/4	10
92087	*	1/2	1 1/2	10
92088	*	1/2	1 3/4	10
92089	*	1/2	2	10
92090	*	1/2	2 1/4	10
92091	*	1/2	2 1/2	10
92093	*	1/2	3	10

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia.	Length (In.)	Unit
92094	*	5/8	1	25
92095	*	5/8	1 1/4	25
92096	*	5/8	1 1/2	25
92097	*	5/8	1 3/4	25
92098	*	5/8	2	25
92099	*	5/8	2 1/2	10
92099-1	*	5/8	3	10

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia.	Length (In.)	Unit
92099-2	*	3/4	1 1/4	10
92099-3	*	3/4	1 1/2	10
92099-4	*	3/4	1 3/4	5
92099-6	*	3/4	2 1/2	5
92099-7	*	3/4	3	5

* Items Not Available

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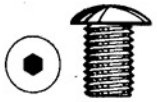
Stainless Steel (18-8) Socket Flat Countersunk Head Cap Screws



- Meets ANSI/ASME B18.3 specifications
- 302, 304, or XM7 stainless steel
- Passivated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
C629042	No. 2-56	3/16	100
C629044	No. 2-56	1/4	100
C629046	No. 2-56	5/16	100
C629048	No. 2-56	3/8	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63820	No. 4-40	1/4	100
C629076	No. 4-40	5/16	100
63821	No. 4-40	3/8	100
63822	No. 4-40	1/2	100
C629086	No. 4-40	5/8	100
C629088	No. 4-40	3/4	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63824	No. 6-32	1/4	100
C629102	No. 6-32	5/16	100
63825	No. 6-32	3/8	100
63825-1	No.6-32	7/16	100
63826	No. 6-32	1/2	100
63827	No. 6-32	5/8	100
63828	No. 6-32	3/4	100
C629114	No. 6-32	1	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63828-1	No. 8-32	1/4	100
C629142	No. 8-32	5/16	100
63829	No. 8-32	3/8	100
63830	No. 8-32	1/2	100
63831	No. 8-32	5/8	100
63832	No. 8-32	3/4	100
63833	No. 8-32	1	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63835	No. 10-24	3/8	100
63836	No. 10-24	1/2	100
63837	No. 10-24	5/8	100
63838	No. 10-24	3/4	100
63839	No. 10-24	1	100
63840	No. 10-24	1 1/4	100
63841	No. 10-24	1 1/2	100
UNF Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63845	No. 10-32	3/8	100
63846	No. 10-32	1/2	100
63847	No. 10-32	5/8	100
63848	No. 10-32	3/4	100
63849	No. 10-32	1	100
63850	No. 10-32	1 1/4	100
63851	No. 10-32	1 1/2	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63855	1/4 - 20	3/8	100
63856	1/4 - 20	1/2	100
MP63856	1/4 - 20	1/2	50
63857	1/4 - 20	5/8	100
MP63857	1/4 - 20	5/8	50
63858	1/4 - 20	3/4	100
MP63858	1/4 - 20	3/4	50
63858-1	1/4-20	7/8	100
63859	1/4 - 20	1	100
MP63859	1/4 - 20	1	50
63860	1/4 - 20	1 1/4	100
MP63860	1/4 - 20	1 1/4	25
63861	1/4 - 20	1 1/2	100
MP63861	1/4 - 20	1 1/2	25
63861-1	1/4 - 20	1 3/4	50
63861-2	1/4 - 20	2	50
63861-21/2	1/4 - 20	2 1/2	50
UNF Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63863	1/4 - 28	1/2	100
63864	1/4 - 28	1	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63865	5/16-18	1/2	100
MP63865	5/16-18	1/2	25
63866	5/16-18	5/8	100
63867	5/16-18	3/4	100
MP63867	5/16-18	3/4	25
63868	5/16-18	1	100
MP63868	5/16-18	1	25
63869	5/16-18	1 1/4	100
MP63869	5/16-18	1 1/4	25
63870	5/16-18	1 1/2	100
MP63870	5/16-18	1 1/2	25
63871	5/16-18	1 3/4	50
63872	5/16-18	2	50
63873	5/16-18	2 1/2	50
KP89550	5/16-18	3	10
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
KP89551	3/8-16	1/2	25
63875	3/8-16	3/4	50
MP63875	3/8-16	3/4	25
63876	3/8-16	1	50
MP63876	3/8-16	1	25
63877	3/8-16	1 1/4	50
MP63877	3/8-16	1 1/4	25
63878	3/8-16	1 1/2	50
MP63878	3/8-16	1 1/2	25
63879	3/8-16	1 3/4	50
63880	3/8-16	2	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63881	1/2-13	3/4	25
63882	1/2-13	1	25
63883	1/2-13	1 1/4	25
63884	1/2-13	1 1/2	25
63885	1/2-13	1 3/4	25
63886	1/2-13	2	25
63886-21/2	1/2-13	2 1/2	25
63886-3	1/2-13	3	25
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
63890	5/8-11	1	5
63891	5/8-11	1 1/4	5
63892	5/8-11	1 1/2	5
63893	5/8-11	2	5
63894	5/8-11	2 1/2	5
63894-1	5/8-11	2 3/4	5
63895	5/8-11	3	5

Stainless Steel (18-8) Socket Button Head Cap Screws



- UNC (USS) or UNF (SAE)
- Meets ANSI/ASME B18.3 specifications
- 302, 304 or XM7 stainless steel
- Passivated

UNC Part No.	Dia. - TPI	Length (In.)	Unit
93039-3	No. 2-56	1/8	100
¤93040	No. 2-56	3/16	100
93041	No. 2-56	1/4	100
¤93042	No. 2-56	5/16	100
93043	No. 2-56	3/8	100
93045	No. 2-56	1/2	100
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
¤93048	No. 4-40	1/8	100
¤93049	No. 4-40	3/16	100
93050	No. 4-40	1/4	50
93051	No. 4-40	5/16	100
93052	No. 4-40	3/8	50
93053	No. 4-40	7/16	100
93054	No. 4-40	1/2	50
93055	No. 4-40	5/8	100
93056	No. 4-40	3/4	50
93058	No. 4-40	1	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
93061	No. 6-32	3/16	100
93062	No. 6-32	1/4	50
93063	No. 6-32	5/16	50
93064	No. 6-32	3/8	50
93065	No. 6-32	7/16	50
93066	No. 6-32	1/2	50
93067	No. 6-32	5/8	50
93068	No. 6-32	3/4	50
93069	No. 6-32	7/8	50
93070	No. 6-32	1	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
93074	No. 8-32	1/4	100
93074-1	No. 8-32	5/16	100
93075	No. 8-32	3/8	50
93076	No. 8-32	1/2	50
93077	No. 8-32	5/8	50
93078	No. 8-32	3/4	50
93078-1	No. 8-32	7/8	100
93079	No. 8-32	1	50
UNC Part No.	**Dia. - TPI**	**Length (In.)**	**Unit**
93082	No. 10-24	1/4	50
93083	No. 10-24	5/16	100
93084	No. 10-24	3/8	50
93085	No. 10-24	1/2	50
93086	No. 10-24	5/8	50
93087	No. 10-24	3/4	50
93087-1	No. 10-24	7/8	100
93088	No. 10-24	1	50
93089	No. 10-24	1 1/4	50
93089-1	No. 10-24	1 1/2	50

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UNF Part No.	Dia. - TPI	Length (In.)	Unit
93092	No. 10-32	¼	50
93093	No. 10-32	5/16	50
93094	No. 10-32	⅜	50
93094-1	No. 10-32	7/16	50
93095	No. 10-32	½	50
93096	No. 10-32	⅝	50
93097	No. 10-32	¾	50
93097-1	No. 10-32	⅞	50
93098	No. 10-32	1	50
93098-1	No. 10-32	1¼	25
93099	No. 10-32	1½	25
93099-2	No. 10-32	2	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
93105	¼ - 20	⅜	25
93106	¼ - 20	½	25
93106-1	¼ - 20	⅝	100
93107	¼ - 20	¾	25
93107-1	¼ - 20	⅞	25
93108	¼ - 20	1	25
93108-1	¼ - 20	1¼	50
93109	¼ - 20	1½	25
93109-1	¼ - 20	1¾	50
93110	¼ - 20	2	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
93122	5/16-18	½	50
93123	5/16-18	⅝	50
93124	5/16-18	¾	50
93125	5/16-18	1	50
93126	5/16-18	1¼	50
93127	5/16-18	1½	50
93128	5/16-18	1¾	50
93129	5/16-18	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
93111	⅜-16	¾	50
93112	⅜-16	1	50
93113	⅜-16	1¼	50
93114	⅜-16	1½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
93115	½-13	1	10
93116	½-13	1¼	10
93117	½-13	1½	10

Stainless Steel (18-8) Socket Head Shoulder Screws



- UNC (USS)
- Meets ANSI/ASME B18.3 specifications
- 302, 303 or 304 stainless steel
- Cold worked
- Passivated

Part No.	Shoulder Dia. (In.)	Thread Size	Shoulder Lgth. (In.)	Unit
93401	¼	10-24 x ⅜	⅜	10
93402	¼	10-24 x ⅜	½	10
93403	¼	10-24 x ⅜	⅝	10
93404	¼	10-24 x ⅜	¾	10
93405	¼	10-24 x ⅜	1	10
93406	¼	10-24 x ⅜	1¼	10
93407	¼	10-24 x ⅜	1½	10

Part No.	Shoulder Dia. (In.)	Thread Size	Shoulder Lgth. (In.)	Unit
93410	5/16	¼-20 x 7/16	¼	10
93411	5/16	¼-20 x 7/16	⅜	10
93412	5/16	¼-20 x 7/16	½	10
93413	5/16	¼-20 x 7/16	⅝	10
93414	5/16	¼-20 x 7/16	¾	10
93415	5/16	¼-20 x 7/16	1	10
93416	5/16	¼-20 x 7/16	1¼	10
93417	5/16	¼-20 x 7/16	1½	10

Part No.	Shoulder Dia. (In.)	Thread Size	Shoulder Lgth. (In.)	Unit
93420	⅜	5/16-18 x ½	⅜	10
93421	⅜	5/16-18 x ½	½	10
93422	⅜	5/16-18 x ½	⅝	10
93423	⅜	5/16-18 x ½	¾	10
93424	⅜	5/16-18 x ½	1	10
93425	⅜	5/16-18 x ½	1¼	5
93426	⅜	5/16-18 x ½	1½	5

Part No.	Shoulder Dia. (In.)	Thread Size	Shoulder Lgth. (In.)	Unit
93430	½	⅜-16 x ⅝	¾	5
93431	½	⅜-16 x ⅝	1	5
93432	½	⅜-16 x ⅝	1¼	5
93433	½	⅜-16 x ⅝	1½	5
93434	½	⅜-16 x ⅝	2	5

316 Stainless Steel Socket Set Screws

Cup Point Type



- UNC (USS) or UNF (SAE)
- Meets ANSI/ASME B18.3 specifications
- Cold worked
- Passivated

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
63560	*	No. 4	1/8	50
63561	*	No. 4	3/16	50
63562	*	No. 4	¼	50

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
63563	*	No. 6	1/8	50
63564	*	No. 6	3/16	50
63565	*	No. 6	¼	50
63566	*	No. 6	5/16	50
63567	*	No. 6	⅜	50

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
63569	*	No. 8	¼	50

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
63570	*	No. 10	3/16	50
63571	NS-63578	No. 10	¼	50
63572	NS-63579	No. 10	5/16	50
63573	NS-63580	No. 10	⅜	50
63574	*	No. 10	½	50
63576	*	No. 10	¾	25

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
63584	*	¼	3/16	25
63585	*	¼	¼	25
63586	*	¼	5/16	25
63587	*	¼	⅜	25
63588	*	¼	½	25
63589	*	¼	⅝	25
63590	*	¼	¾	25
63591	*	¼	1	25

UNC Part No. TPI-18	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
63592	*	5/16	¼	25
63593	*	5/16	5/16	25
63594	*	5/16	⅜	25
63595	*	5/16	½	25
63596	*	5/16	⅝	25
63597	*	5/16	¾	25
63598	*	5/16	1	25

UNC Part No. TPI-16	UNF Part No. TPI-24	Dia.	Length (In.)	Unit
63600	*	⅜	5/16	25
63601	*	⅜	⅜	25
63602	*	⅜	½	25
63603	*	⅜	⅝	25
63604	*	⅜	¾	25
63605	*	⅜	1	25

UNC Part No. TPI-13	UNF Part No. TPI-20	Dia.	Length (In.)	Unit
63606	*	½	½	25
63607	*	½	⅝	25
63608	*	½	¾	25
63609	*	½	1	25

UNC Part No. TPI-11	UNF Part No. TPI-18	Dia.	Length (In.)	Unit
63610	*	⅝	½	5
63611	*	⅝	¾	5
63612	*	⅝	1	5

UNC Part No. TPI-10	UNF Part No. TPI-16	Dia.	Length (In.)	Unit
63613	*	¾	¾	1
63614	*	¾	1	1

* Item not available

NOTE: Part numbers prefixed with NS are sold through our Industrial Supply Division (ISD).

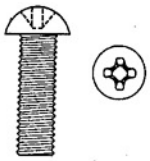
GRAYSON INDUSTRIES, INC.

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Stainless Steel (18-8) Machine Screws

Phillips Round Head



- UNC (USS) or UNF (SAE)

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-64050-R	No. 2-56	1/8	100
¤NS-64051-R	No. 2-56	3/16	100
¤NS-64052-R	No. 2-56	1/4	100
¤NS-64053-R	No. 2-56	5/16	100
¤NS-64054-R	No. 2-56	3/8	100
¤NS-64055-R	No. 2-56	7/16	100
¤NS-64056-R	No. 2-56	1/2	100
¤NS-64057-R	No. 2-56	5/8	100
¤NS-64058-R	No. 2-56	3/4	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-64060-R	No. 4-40	1/8	100
¤NS-64061-R	No. 4-40	3/16	100
¤NS-64062-R	No. 4-40	1/4	100
¤NS-64063-R	No. 4-40	5/16	100
¤NS-64064-R	No. 4-40	3/8	100
¤NS-64065-R	No. 4-40	7/16	100
¤NS-64066-R	No. 4-40	1/2	100
¤NS-64067-R	No. 4-40	5/8	100
¤NS-64068-R	No. 4-40	3/4	100
¤NS-64069-R	No. 4-40	7/8	100
¤NS-64070-R	No. 4-40	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-64071-R	No. 6-32	3/16	50
¤NS-64072-R	No. 6-32	1/4	100
¤NS-64073-R	No. 6-32	5/16	100
¤NS-64074-R	No. 6-32	3/8	100
¤NS-64075-R	No. 6-32	7/16	100
¤NS-64076-R	No. 6-32	1/2	100
¤NS-64077-R	No. 6-32	5/8	100
¤NS-64078-R	No. 6-32	3/4	100
¤NS-64079-R	No. 6-32	7/8	100
¤NS-64080-R	No. 6-32	1	100
¤NS-64081-R	No. 6-32	1 1/4	100
¤NS-64082-R	No. 6-32	1 1/2	100
¤NS-64083-R	No. 6-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-64085-R	No. 8-32	1/4	100
¤NS-64086-R	No. 8-32	5/16	100
¤NS-64087-R	No. 8-32	3/8	100
¤NS-64088-R	No. 8-32	7/16	100
¤NS-64089-R	No. 8-32	1/2	100
¤NS-64090-R	No. 8-32	5/8	100
¤NS-64091-R	No. 8-32	3/4	100
¤NS-64092-R	No. 8-32	7/8	100
¤NS-64093-R	No. 8-32	1	100
¤NS-64094-R	No. 8-32	1 1/4	100
¤NS-64095-R	No. 8-32	1 1/2	100
¤NS-64096-R	No. 8-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-64100-R	No. 10-24	5/16	100
¤NS-64101-R	No. 10-24	3/8	100
¤NS-64102-R	No. 10-24	7/16	100
¤NS-64013-R	No. 10-24	1/2	100
¤NS-64104-R	No. 10-24	5/8	100
¤NS-64105-R	No. 10-24	3/4	100
¤NS-64106-R	No. 10-24	7/8	100
¤NS-64107-R	No. 10-24	1	100
¤NS-64108-R	No. 10-24	1 1/4	100
¤NS-64109-R	No. 10-24	1 1/2	100
¤NS-64110-R	No. 10-24	2	100

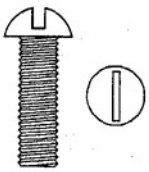
UNF Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-64111-R	No. 10-32	5/16	100
¤NS-64112-R	No. 10-32	3/8	100
¤NS-64113-R	No. 10-32	7/16	100
¤NS-64114-R	No. 10-32	1/2	100
¤NS-64115-R	No. 10-32	5/8	100
¤NS-64116-R	No. 10-32	3/4	100
¤NS-64117-R	No. 10-32	7/8	100
¤NS-64118-R	No. 10-32	1	100
¤NS-64119-R	No. 10-32	1 1/4	100
¤NS-64120-R	No. 10-32	1 1/2	100
¤NS-64121-R	No. 10-32	2	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-64122-R	1/4-20	3/8	100
¤NS-64123-R	1/4-20	1/2	100
¤NS-64124-R	1/4-20	5/8	100
¤NS-64125-R	1/4-20	3/4	100
¤NS-64126-R	1/4-20	7/8	100
¤NS-64127-R	1/4-20	1	100
¤NS-64128-R	1/4-20	1 1/4	100
¤NS-64129-R	1/4-20	1 1/2	100
¤NS-64130-R	1/4-20	2	100

NOTE: Part numbers prefixed with NS are sold through our Industrial Supply Division (ISD).

Stainless Steel (18-8) Machine Screws

Slotted Round Head



- UNC (USS) or UNF (SAE)

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤92430	No. 2-56	1/8	50
¤92432	No. 2-56	1/4	50
¤92434	No. 2-56	3/8	50
¤92435	No. 2-56	1/2	50
¤92436	No. 2-56	3/4	50
¤92438	No. 2-56	1	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤92439	No. 4-40	1/8	50
92600	No. 4-40	1/4	50
92601	No. 4-40	3/8	50
92602	No. 4-40	1/2	50
92603	No. 4-40	5/8	50
92604	No. 4-40	3/4	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤92604-1	No. 4-40	7/8	50
92605	No. 4-40	1	50
¤NS-92606	No. 4-40	1 1/4	50
¤C624098	No. 4-40	1 1/2	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤NS-92609	No. 6-32	3/16	50
92610	No. 6-32	1/4	50
¤92610-1	No. 6-32	5/16	50
92611	No. 6-32	3/8	50
¤92611-1	No. 6-32	7/16	50
92612	No. 6-32	1/2	50
92613	No. 6-32	5/8	50
92614	No. 6-32	3/4	50
¤92615	No. 6-32	7/8	50
92616	No. 6-32	1	50
92617	No. 6-32	1 1/4	50
92618	No. 6-32	1 1/2	50
92619	No. 6-32	1 3/4	50
¤NS-92619-1	No. 6-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
92620	No. 8-32	1/4	50
¤92620-1	No. 8-32	5/16	50
92621	No. 8-32	3/8	50
92621-1	No. 8-32	7/16	50
92622	No. 8-32	1/2	50
92623	No. 8-32	5/8	50
92624	No. 8-32	3/4	50
¤92624-1	No. 8-32	7/8	50
92625	No. 8-32	1	50
92626	No. 8-32	1 1/4	25
92627	No. 8-32	1 1/2	25
92628	No. 8-32	1 3/4	25
92629	No. 8-32	2	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
92634	No. 10-24	1/4	50
92635	No. 10-24	3/8	50
92636	No. 10-24	1/2	50
¤92637	No. 10-24	5/8	50
92638	No. 10-24	3/4	50
¤92638-1	No. 10-24	7/8	50
92639	No. 10-24	1	50
92640	No. 10-24	1 1/4	25
92641	No. 10-24	1 1/2	25
92642	No. 10-24	1 3/4	25
92643	No. 10-24	2	25

UNF Part No.	Dia. - TPI	Length (In.)	Unit
92654	No. 10-32	1/4	50
92654-1	No. 10-32	5/16	50
92655	No. 10-32	3/8	50
¤92655-1	No. 10-32	7/16	50
92656	No. 10-32	1/2	50
92657	No. 10-32	5/8	50
92658	No. 10-32	3/4	50
92658-1	No. 10-32	7/8	50
92659	No. 10-32	1	50
92660	No. 10-32	1 1/4	25
92661	No. 10-32	1 1/2	25
92662	No. 10-32	1 3/4	25
92663	No. 10-32	2	25

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UNC Part No.	Dia. - TPI	Length (In.)	Unit
92665	No. 12-24	⅜	50
92666	No. 12-24	½	50
92667	No. 12-24	¾	50
92668	No. 12-24	1	50
92669	No. 12-24	1¼	50
92670	No. 12-24	1½	50
92672	No. 12-24	2	50

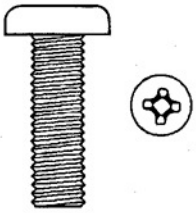
UNC Part No.	Dia. - TPI	Length (In.)	Unit
92685	¼-20	⅜	25
92686	¼-20	½	25
92687	¼-20	⅝	25
92688	¼-20	¾	25
¤92688-1	¼-20	⅞	25
92689	¼-20	1	25
92690	¼-20	1¼	25
92691	¼-20	1½	25
¤92692	¼-20	1¾	25
92693	¼-20	2	25
92694-1	¼-20	2½	25
92695	¼-20	3	25
92696	¼-20	3½	25
92697	¼-20	4	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
92698	5⁄16-18	½	25
92698-1	5⁄16-18	¾	25
92698-2	5⁄16-18	1	25
92698-3	5⁄16-18	1½	25
92698-4	5⁄16-18	1¾	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤92699	⅜-16	½	10
¤92699-1	⅜-16	1	10
¤92699-2	⅜-16	1½	10

Stainless Steel (18-8) Machine Screws

Phillips Pan Head



- UNC (USS) or UNF (SAE)

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤94648	No. 2-56	⅛	100
¤94648-1	No. 2-56	3⁄16	100
¤94648-2	No. 2-56	¼	100
¤94648-3	No. 2-56	5⁄16	100
¤94649	No. 2-56	⅜	100
¤94649-1	No. 2-56	7⁄16	100
¤94649-2	No. 2-56	½	100
¤94649-3	No. 2-56	⅝	100
¤94650	No. 2-56	¾	100
¤94650-2	No. 2-56	⅞	100
¤94650-3	No. 2-56	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94650-4	No. 4-40	3⁄16	50
94651	No. 4-40	¼	50
94651-1	No. 4-40	5⁄16	50
94652	No. 4-40	⅜	50
94652-1	No. 4-40	7⁄16	50
94653	No. 4-40	½	50
94653-1	No. 4-40	⅝	50
94654	No. 4-40	¾	50
94654-1	No. 4-40	⅞	50
94655	No. 4-40	1	50
94655-1	No. 4-40	1¼	50
94655-2	No. 4-40	1½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94656	No. 6-32	3⁄16	50
94657	No. 6-32	¼	50
94657-1	No. 6-32	5⁄16	50
94658	No. 6-32	⅜	50
94658-1	No. 6-32	7⁄16	50
94659	No. 6-32	½	50
94659-1	No. 6-32	⅝	50
94660	No. 6-32	¾	50
94660-1	No. 6-32	⅞	50
94661	No. 6-32	1	50
94661-1	No. 6-32	1¼	50
94662	No. 6-32	1½	50
94662-1	No. 6-32	1¾	50
94662-2	No. 6-32	2	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94663	No. 8-32	¼	50
94663-1	No. 8-32	5⁄16	50
94664	No. 8-32	⅜	50
¤94664-1	No. 8-32	7⁄16	50
94665	No. 8-32	½	50
94665-1	No. 8-32	⅝	50
94666	No. 8-32	¾	50
94666-1	No. 8-32	⅞	50
94667	No. 8-32	1	50
94668	No. 8-32	1¼	25
94669	No. 8-32	1½	25
94670	No. 8-32	1¾	100
94671	No. 8-32	2	25
C38149	No. 8-32	2½	50

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94672	No. 10-24	¼	50
¤94672-1	No. 10-24	5⁄16	50
94673	No. 10-24	⅜	50
94673-1	No. 10-24	7⁄16	50
94674	No. 10-24	½	50
94674-1	No. 10-24	⅝	50
94675	No. 10-24	¾	50
94675-1	No. 10-24	⅞	50
94676	No. 10-24	1	50
94677	No. 10-24	1¼	25
94678	No. 10-24	1½	25
94679	No. 10-24	1¾	25
94680	No. 10-24	2	25
C38160	No. 10-24	2½	25
C38161	No. 10-24	3	25

UNF Part No.	Dia. - TPI	Length (In.)	Unit
94681	No. 10-32	¼	50
94681-1	No. 10-32	5⁄16	50
94682	No. 10-32	⅜	50
94682-1	No. 10-32	7⁄16	50

UNF Part No.	Dia. - TPI	Length (In.)	Unit
94683	No. 10-32	½	50
94683-1	No. 10-32	⅝	50
94684	No. 10-32	¾	50
94684-1	No. 10-32	⅞	50
94685	No. 10-32	1	50
94686	No. 10-32	1¼	25
94687	No. 10-32	1½	25
94688	No. 10-32	1¾	25
94689	No. 10-32	2	25
C38154	No. 10-32	2½	25
C38155	No. 10-32	3	25

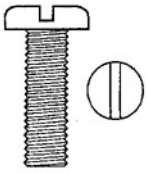
UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤94689-1	No. 12-24	⅜	50
94689-3	No. 12-24	½	50
¤94689-4	No. 12-24	⅝	50
94689-5	No. 12-24	¾	50
94689-7	No. 12-24	1	50
94689-9	No. 12-24	1½	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94690	¼-20	⅜	25
94691	¼-20	½	25
94691-1	¼-20	⅝	25
94692	¼-20	¾	25
94693	¼-20	1	25
94694	¼-20	1¼	25
94695	¼-20	1½	25
94696	¼-20	1¾	25
94697	¼-20	2	25
94697-1	¼-20	2¼	25
94698	¼-20	2½	25
94698-1	¼-20	3	25
94699	¼-20	3½	25
94699-1	¼-20	4	25

NOTE: Part numbers prefixed with NS are sold through our Industrial Supply Division (ISD).

Stainless Steel (18-8) Machine Screws

Slotted Pan Head



- UNC (USS) or UNF (SAE)

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
¤NS-92900	2-56	⅛	50
¤NS-92901	2-56	3⁄16	50
¤92902	2-56	¼	50
¤NS-92903	2-56	5⁄16	50
¤92904	2-56	⅜	50
¤92906	2-56	½	50
¤92909	2-56	1	50

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
¤NS-92913	4-40	⅛	50
¤NS-92914	4-40	3⁄16	50
92915	4-40	¼	50
¤NS-92916	4-40	5⁄16	50

Continued on next page

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Continued from previous page

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
92917	4-40	3/8	50
¤NS-92918	4-40	7/16	50
92919	4-40	1/2	50
¤NS-92920	4-40	5/8	50
92921	4-40	3/4	50
92923	4-40	1	50
¤NS-92924	4-40	1 1/4	50
¤NS-92925	4-40	1 1/2	50

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
¤NS-92926	6-32	3/16	50
92927	6-32	1/4	50
92929	6-32	3/8	50
¤NS-92930	6-32	7/16	50
92931	6-32	1/2	50
¤NS-92932	6-32	5/8	50
92933	6-32	3/4	50
¤NS-92934	6-32	7/8	50
92935	6-32	1	50
¤NS-92936	6-32	1 1/4	50
92937	6-32	1 1/2	50
¤NS-92938	6-32	1 3/4	50
¤NS-92939	6-32	2	50

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
92941	8-32	1/4	50
¤NS-92942	8-32	5/16	50
92943	8-32	3/8	50
¤NS-92944	8-32	7/16	50
92945	8-32	1/2	50
¤NS-92946	8-32	5/8	50
92947	8-32	3/4	50
¤NS-92948	8-32	7/8	50
92949	8-32	1	50
92950	8-32	1 1/4	25
92951	8-32	1 1/2	25
92953	8-32	2	25

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
92956	10-24	1/4	50
92958	10-24	3/8	50
92960	10-24	1/2	50
¤NS-92961	10-24	5/8	50
92962	10-24	3/4	50
92964	10-24	1	50
92965	10-24	1 1/4	25
92966	10-24	1 1/2	25
92967	10-24	1 3/4	25
92968	10-24	2	25

UNF Part No.	Dia. - TPI (In.)	Length (In.)	Unit
92971	10-32	1/4	50
¤NS-92972	10-32	5/16	50
92973	10-32	3/8	50
92975	10-32	1/2	50
¤NS-92976	10-32	5/8	50
92977	10-32	3/4	50
¤NS-92978	10-32	7/8	50
92979	10-32	1	50
92980	10-32	1 1/4	25
92981	10-32	1 1/2	25

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
92986	12-24	3/8	50
92987	12-24	1/2	50
92988	12-24	3/4	50
92989	12-24	1	50

UNC Part No.	Dia. - TPI (In.)	Length (In.)	Unit
92996	1/4-20	3/8	25
¤NS-92997	1/4-20	7/16	25
92998	1/4-20	1/2	25
93000	1/4-20	3/4	25
93002	1/4-20	1	25
93003	1/4-20	1 1/4	25
93004	1/4-20	1 1/2	25
93005	1/4-20	1 3/4	25
93006	1/4-20	2	25
¤NS-93007	1/4-20	2 1/4	25
93008	1/4-20	2 1/2	25
¤NS-93009-2	1/4-20	4	25

NOTE: Part numbers prefixed with NS are sold through our Industrial Supply Division (ISD).

Stainless Steel (18-8) Machine Screws

Pan Head Square Drive



Part No.	Dia.	Lgth. (In.)	Unit
✦53207	6-32	1/2	100
✦53209	6-32	3/4	100
✦53210	6-32	1	100
✦53211	6-32	1 1/4	100
✦53217	8-32	3/4	100
✦53218	8-32	1	100
✦53219	8-32	1 1/4	100
✦53220	8-32	1 1/2	100
✦53225	10-24	1	100
✦53226	10-24	1 1/4	100
✦53229	10-24	2	100
✦53235	10-32	1	100
✦53236	10-32	1 1/4	100
✦53237	10-32	1 1/2	100

✦Part numbers available in Canada only.

Stainless Steel Phillips Truss Head



- 18-8 stainless steel

UNC Part No.	Dia. - Tri	Length (In.)	Unit
C625104	6 - 32	3/8	100
C625106	6 - 32	1/2	100
C625108	6 - 32	5/8	100
C625110	6 - 32	3/4	100
C625114	6 - 32	1	100
C625144	8 - 32	3/8	100

UNC Part No.	Dia. - Tri	Length (In.)	Unit
C625146	8 - 32	1/2	100
C625148	8 - 32	5/8	100
C625150	8 - 32	3/4	100
C625154	8 - 32	1	100
C625156	8 - 32	1 1/4	100
C625158	8 - 32	1 1/2	100
C625184	10 - 24	3/8	100
C625186	10 - 24	1/2	100
C625188	10 - 24	5/8	100
C625190	10 - 24	3/4	100
C625194	10 - 24	1	100
C625196	10 - 24	1 1/4	100
C625198	10 - 24	1 1/2	100
C625202	10 - 24	2	100

Stainless Steel (18-8) Machine Screws

Phillips Flat Head



- UNC (USS) or UNF (SAE)

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤94489	No. 2-56	1/8	100
¤94490	No. 2-56	3/16	100
¤94491	No. 2-56	1/4	100
¤94492	No. 2-56	5/16	100
¤94493	No. 2-56	3/8	100
¤94494	No. 2-56	7/16	100
¤94495	No. 2-56	1/2	100
¤94496	No. 2-56	5/8	100
¤94497	No. 2-56	3/4	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94498	No. 4-40	1/8	100
¤94499	No. 4-40	3/16	100
94500	No. 4-40	1/4	100
¤94500-1	No. 4-40	5/16	100
94501	No. 4-40	3/8	100
94502	No. 4-40	1/2	100
¤94503	No. 4-40	5/8	100
94504	No. 4-40	3/4	100
¤94505	No. 4-40	7/8	100
94506	No. 4-40	1	100

UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤94509	No. 6-32	3/16	100
94510	No. 6-32	1/4	100
¤94510-1	No. 6-32	5/16	100
94511	No. 6-32	3/8	100
¤94511-1	No. 6-32	7/16	100
94512	No. 6-32	1/2	100
94513	No. 6-32	5/8	100
94514	No. 6-32	3/4	100
94515	No. 6-32	7/8	100
94516	No. 6-32	1	100
94517	No. 6-32	1 1/4	100
94518	No. 6-32	1 1/2	100
94519	No. 6-32	2	100

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Stainless Steel (18-8) Machine Screws

Flat Countersunk Head Square Drive

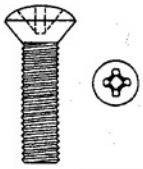


Part No.	Dia.	Lgth. (In.)	Unit
✦53257	6-32	½	100
✦53259	6-32	¾	100
✦53260	6-32	1	100
✦53267	8-32	¾	100
✦53268	8-32	1	100

✦Part numbers available in Canada only.

Stainless Steel (18-8) Machine Screws

Phillips Oval Head



- UNC (USS) or UNF (SAE)

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94607	No. 6-32	¼	50
94608	No. 6-32	⅜	50
94609	No. 6-32	½	50
94610	No. 6-32	¾	50
94611	No. 6-32	1	50
C92350	No. 6-32	2	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94613	No. 8-32	¼	50
¤94614	No. 8-32	⅜	50
94615	No. 8-32	½	50
¤94615-1	No. 8-32	⅝	100
94616	No. 8-32	¾	50
¤94616-1	No. 8-32	⅞	100
94617	No. 8-32	1	50
¤94618	No. 8-32	1¼	25
94619	No. 8-32	1½	25
¤C38217	No. 8-32	1¾	50
94620	No. 8-32	2	50

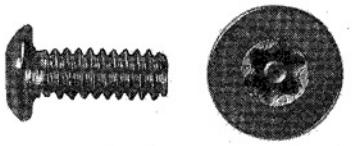
UNC Part No.	Dia. - TPI	Length (In.)	Unit
¤94621	No. 10-24	5/16	100
94623	No. 10-24	⅜	50
¤94623-1	No. 10-24	7/16	100
94624	No. 10-24	½	50
¤94624-1	No. 10-24	⅝	100
94625	No. 10-24	¾	50
¤94625-1	No. 10-24	⅞	100
94626	No. 10-24	1	50
94627	No. 10-24	1¼	25
94628	No. 10-24	1½	25
¤C38227	No. 10-24	1¾	25
94629	No. 10-24	2	100

UNF Part No.	Dia. - TPI	Length (In.)	Unit
94632	No. 10-32	⅜	50
94633	No. 10-32	½	50
94634	No. 10-32	¾	50
94635	No. 10-32	1	50
94636	No. 10-32	1¼	25
94637	No. 10-32	1½	25
¤C38222	No. 10-32	1¾	25

UNC Part No.	Dia. - TPI	Length (In.)	Unit
94641	¼-20	½	25
94641-1	¼-20	⅝	100
94642	¼-20	¾	25
94643	¼-20	1	25
94644	¼-20	1¼	25
94645	¼-20	1½	25
94647	¼-20	2	25

Stainless Steel (18-8) Machine Screws

Button Head TORX Tamper Resistant Screws



- TORX drive with pin for tamper resistance
- 18-8 stainless steel
- Use with security TORX drive bits

Part No.	Dia.	Length (In.)	Bit Size	Unit
KP76960	6-32	⅜	T-10	50
KP76961	6-32	½	T-10	50
KP76962	6-32	¾	T-10	50
KP76963	6-32	1	T-10	50

Part No.	Dia.	Length (In.)	Bit Size	Unit
KP76964	8-32	½	T-15	50
KP76965	8-32	¾	T-15	50
KP76966	8-32	1	T-15	50

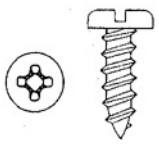
Part No.	Dia.	Length (In.)	Bit Size	Unit
KP76967	10-24	½	T-25	50
KP76968	10-24	¾	T-25	50
KP76969	10-24	1	T-25	50

Part No.	Dia.	Length (In.)	Bit Size	Unit
KP76970	10-32	½	T-25	50
KP76971	10-32	1	T-25	50

Sheet Metal Screws

Stainless Steel (18-8) Sheet Metal Screws

Phillips Pan Head



- 302 or 304 stainless steel
- Passivated

Part No.	Dia.	Length (In.)	Unit
94210	No. 4	¼	100
94211	No. 4	⅜	100
94212	No. 4	½	100
94213	No. 4	¾	100
94214	No. 4	1	100

Part No.	Dia.	Length (In.)	Unit
94215	No. 6	¼	100
94216	No. 6	⅜	100
94217	No. 6	½	100
94218	No. 6	⅝	100
94219	No. 6	¾	100
94221	No. 6	1	100
94222	No. 6	1¼	100
94223	No. 6	1½	100

Part No.	Dia.	Length (In.)	Unit
94236	No. 8	⅜	100
94237	No. 8	½	100
94238	No. 8	⅝	100
94239	No. 8	¾	100
94241	No. 8	1	100
94242	No. 8	1¼	100
94243	No. 8	1½	100
94244	No. 8	1¾	100
94245	No. 8	2	100
C36906	No. 8	2½	50

Part No.	Dia.	Length (In.)	Unit
94248	No. 10	⅜	100
94249	No. 10	½	100
94250	No. 10	⅝	100
94251	No. 10	¾	100
94253	No. 10	1	100
94254	No. 10	1¼	50
94255	No. 10	1½	50
94256	No. 10	1¾	100
94257	No. 10	2	100
C36908	No. 10	2½	25
C36909	No. 10	3	25

Part No.	Dia.	Length (In.)	Unit
94260	No. 12	½	100
KP87464	No. 12	⅝	50
94261	No. 12	¾	100
94262	No. 12	1	100
94263	No. 12	1¼	50
94264	No. 12	1½	50
C36913	No. 12	1¾	25
94265	No. 12	2	100
C36914	No. 12	2½	25
C36915	No. 12	3	25

Part No.	Dia.	Length (In.)	Unit
94267	¼	½	100
94269	¼	¾	100
94270	¼	1	100
94271	¼	1¼	50
94272	¼	1½	50
C95271	¼	1¾	25
94274	¼	2	50
C36920	¼	2½	25
C36921	¼	3	25

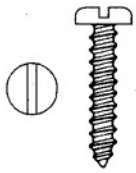
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Stainless Steel (18-8) Sheet Metal Screws

Slotted Pan Head



- 302 or 304 stainless steel
- Passivated

Part No.	Dia.	Length (In.)	Unit
¤93215	No. 6	¼	50
93216	No. 6	⅜	50
93217	No. 6	½	50
93219	No. 6	¾	50
93221	No. 6	1	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
93236	No. 8	⅜	50
93237	No. 8	½	50
¤93238	No. 8	⅝	50
93239	No. 8	¾	50
93241	No. 8	1	50
93243	No. 8	1½	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
93249	No. 10	½	50
93250	No. 10	⅝	50
93251	No. 10	¾	50
93253	No. 10	1	50
93254	No. 10	1¼	25
93255	No. 10	1½	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
93260	No. 12	½	50
¤93260-1	No. 12	⅝	50
93261	No. 12	¾	50
93262	No. 12	1	50
93263	No. 12	1¼	25
93264	No. 12	1½	25
¤93266	No. 12	2	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤93267	¼	½	50
93269	¼	¾	50
93270	¼	1	50
¤93271	¼	1¼	25
¤93272	¼	1½	25
¤93274	¼	2	25

Stainless Steel (18-8) Sheet Metal Screws

Pan Head Square Drive - Canada Only



- Type A point

Part No.	Dia.	Length (In.)	Unit
⌖C68988	No. 4	⅜	100
⌖C68989	No. 4	½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖C68990	No. 6	⅜	100
⌖53011	No. 6	½	100
⌖C68991	No. 6	⅝	100
⌖53013	No. 6	¾	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖53015	No. 6	1	100
⌖C68995	No. 6	1¼	100
⌖C68996	No. 6	1½	100
⌖C68997	No. 6	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖C68998	No. 8	⅜	100
⌖53027	No. 8	½	100
⌖C69000	No. 8	⅝	100
⌖53029	No. 8	¾	100
⌖53031	No. 8	1	100
⌖53032	No. 8	1¼	100
⌖53033	No. 8	1½	100
⌖C69005	No. 8	1¾	100
⌖C69006	No. 8	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖53034	No. 10	½	100
⌖C69008	No. 10	⅝	100
⌖53035	No. 10	¾	100
⌖53036	No. 10	1	100
⌖53040	No. 10	1¼	100
⌖53041	No. 10	1½	100
⌖53042	No. 10	2	100
⌖C69014	No. 10	2½	100
⌖C69015	No. 10	⅝	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖53047	No. 12	¾	100
⌖53049	No. 12	1	100
⌖53050	No. 12	1¼	100
⌖53051	No. 12	1½	100
⌖53052	No. 12	2	100
⌖C69021	No. 12	2½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖C69022	¼	½	100
⌖53071	¼	¾	100
⌖53072	¼	1	100
⌖53073	¼	1¼	100
⌖53074	¼	1½	100
⌖C69027	No. 14	2	100
⌖C69028	No. 14	2½	100
⌖C69029	No. 14	3	100

⌖Part numbers available in Canada only.

Stainless Steel Phillips Truss Head Sheet Metal Screws



Truss head design for a safe finish covering up irregular holes. Stainless steel provides outstanding resistance to acid chemicals, rust and corrosion.

- 18-8 stainless steel

Part No.	Dia.	Length (mm).	Unit
¤C637408	No. 6	⅜	100
C637409	No. 6	½	100
C637410	No. 6	⅝	100
C637411	No. 6	¾	100
C637413	No. 6	1	100
C637414	No. 6	1¼	100
C637426	No. 8	⅜	100
C637427	No. 8	½	100
C637428	No. 8	⅝	100
C637429	No. 8	¾	100
C637431	No. 8	1	100
C637432	No. 8	1¼	100
Part No.	**Dia.**	**Length (mm).**	**Unit**
C637433	No. 8	1½	100
C637640	No. 10	⅜	100
C637441	No. 10	½	100
C637442	No. 10	⅝	100
C637443	No. 10	¾	100
C637445	No. 10	1	100
C637446	No. 10	1¼	100
C637447	No. 10	1½	100
C637649	No. 10	2	100
C637656	No. 12	½	100
C637658	No. 12	¾	100
C637660	No. 12	1	100
C637661	No. 12	1¼	100
C637662	No. 12	1½	100
C637664	No. 12	2	100
C637669	¼	¾	100
C637670	¼	1	100

Stainless Steel Square Drive Truss Head Sheet Metal Screws - ⌖Canada Only

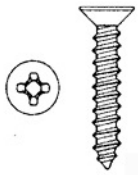


- 18-8 Stainless steel

Part No.	Dia.	Length (In.)	Unit
⌖C69051	No. 6	½	100
⌖C69052	No. 6	¾	100
⌖C69053	No. 6	1	100
⌖C69054	No. 8	½	100
⌖C69055	No. 8	⅝	100
⌖C69056	No. 8	¾	100
⌖C69057	No. 8	1	100
⌖C69058	No. 10	⅜	100
⌖C69059	No. 10	½	100
⌖C69060	No. 10	¾	100
⌖C69061	No. 10	1	100
⌖C69062	No. 10	1¼	100
⌖C69064	No. 10	1½	100

Stainless Steel (18-8) Sheet Metal Screws

Phillips Flat Head



- 302 or 304 stainless steel
- Passivated

Part No.	Dia.	Length (In.)	Unit
¤94300	No. 4	¼	100
94301	No. 4	⅜	100
94302	No. 4	½	100
94303	No. 4	¾	100
94304	No. 4	1	100

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Continued from previous page

Part No.	Dia.	Length (In.)	Unit
94305	No. 6	¼	100
94306	No. 6	⅜	100
94307	No. 6	½	100
94308	No. 6	⅝	100
94309	No. 6	¾	100
94310	No. 6	1	100
94311	No. 6	1¼	100
94312	No. 6	1½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
94313	No. 8	⅜	100
94314	No. 8	½	100
94315	No. 8	⅝	100
94316	No. 8	¾	100
94317	No. 8	1	100
94318	No. 8	1¼	100
94319	No. 8	1½	100
94320	No. 8	1¾	100
94321	No. 8	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤94322	No. 10	⅜	100
94323	No. 10	½	100
94324	No. 10	⅝	100
94325	No. 10	¾	100
94326	No. 10	1	100
94327	No. 10	1¼	100
94328	No. 10	1½	100
94329	No. 10	1¾	100
94330	No. 10	2	100
C36959	No. 10	3	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
94331	No. 12	1	100
C36962	No. 12	¾	25
94332	No. 12	1¼	100
94333	No. 12	1½	100
94334	No. 12	2	100
¤C36965	No. 12	3	25
Part No.	**Dia.**	**Length (In.)**	**Unit**
KP87436	¼	¾	50
C36969	¼	1	25
KP87438	¼	1¼	50
C36971	¼	1½	25
C36973	¼	2	25
C36975	¼	3	25

Stainless Steel (18-8) Sheet Metal Screws

Flat Countersunk Head Socket Drive Square Drive Flat Head - ⌖Canada Only

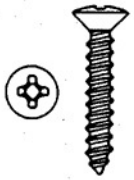


Part No.	Dia.	Length (In.)	Unit
⌖C68941	No. 4	½	100
⌖C68942	No. 4	¾	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖C68943	No. 6	⅜	100
⌖53111	No. 6	½	100
⌖C68945	No. 6	⅝	100
⌖53113	No. 6	¾	100
⌖53115	No. 6	1	100
⌖C68948	No. 6	1¼	100
⌖C68949	No. 6	1½	100
⌖C68950	No. 8	⅜	100
⌖53127	No. 8	½	100
⌖C68952	No. 8	⅝	100
⌖53129	No. 8	¾	100
⌖53131	No. 8	1	100
⌖53132	No. 8	1¼	100
⌖53133	No. 8	1½	100
⌖C68957	No. 8	1¾	100
⌖C68958	No. 8	2	100
⌖C68959	No. 8	2½	100
⌖C68960	No. 8	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖53134	No. 10	½	100
⌖C68962	No. 10	⅝	100
⌖53135	No. 10	¾	100
⌖53136	No. 10	1	100
⌖53140	No. 10	1¼	100
⌖53141	No. 10	1½	100
⌖C68967	No. 10	1¾	100
⌖53142	No. 10	2	100
⌖C68969	No. 10	2½	100
⌖C68970	No. 10	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖53147	No. 12	¾	100
⌖53149	No. 12	1	100
⌖53150	No. 12	1¼	100
⌖53151	No. 12	1½	100
⌖C68975	No. 12	1¾	100
⌖53152	No. 12	2	100
⌖C68977	No. 12	2½	100
⌖C68978	No. 12	3	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
⌖53171	¼	¾	100
⌖53172	¼	1	100
⌖53173	¼	1¼	100
⌖53174	¼	1½	100
⌖C68983	No. 14	1¾	100
⌖C68984	No. 14	2	100
⌖C68985	No. 14	2½	100
⌖C68986	No. 14	3	100
⌖C68987	No. 14	3½	100

⌖Part numbers available in Canada only.

Stainless Steel (18-8) Sheet Metal Screws

Phillips Oval Head

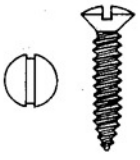


- 302 or 304 stainless steel
- Passivated

Part No.	Dia.	Length (In.)	Unit
¤94110	No. 4	¼	100
¤94111	No. 4	⅜	100
94112	No. 4	½	100
¤94113	No. 4	¾	100
¤94114	No. 4	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤94115	No. 6	¼	100
¤94116	No. 6	⅜	100
94117	No. 6	½	100
94118	No. 6	⅝	100
¤94119	No. 6	¾	100
¤94121	No. 6	1	100
94122	No. 6	1¼	100
94123	No. 6	1½	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤94136	No. 8	⅜	100
¤94137	No. 8	½	100
94138	No. 8	⅝	100
¤94139	No. 8	¾	100
¤94141	No. 8	1	100
94142	No. 8	1¼	100
¤94143	No. 8	1½	100
94144	No. 8	1¾	100
94145	No. 8	2	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
¤94148	No. 10	⅜	100
¤94149	No. 10	½	100
¤94150	No. 10	⅝	100
94151	No. 10	¾	100
¤94153	No. 10	1	100
94154	No. 10	1¼	100
¤94155	No. 10	1½	100
94155-1	No. 10	1¾	100
¤94156	No. 10	2	100
KP87449	No. 10	2½	50
KP87450	No. 10	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
C36932	No. 12	½	25
¤94161	No. 12	¾	100
¤94162	No. 12	1	100
94163	No. 12	1¼	100
¤94164	No. 12	1½	100
¤94166	No. 12	2	100
KP87453	No. 12	2½	50
KP87454	No. 12	3	50
Part No.	**Dia.**	**Length (In.)**	**Unit**
C36940	¼	¾	25
94170	¼	1	100
C36942	¼	1¼	25
¤94172	¼	1½	100
¤94174	¼	2	100

Stainless Steel (18-8) Sheet Metal Screws

Slotted Oval Head



- 302 or 304 stainless steel
- Passivated

Part No.	Dia.	Length (In.)	Unit
93119	No. 6	¾	100
93121	No. 6	1	100
Part No.	**Dia.**	**Length (In.)**	**Unit**
93137	No. 8	½	100
93139	No. 8	¾	100
93141	No. 8	1	100
93143	No. 8	1½	100

Continued on next page

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Continued from previous page



- 410 Stainless Steel

Indented Hex Washer Head #2 Point

Part No.	Diameter	Length (In.)	Unit
KP350	No. 6	½	100
KP351	No. 6	⅝	100
KP352	No. 6	¾	100
KP353	No. 6	1	100
95570	No. 8	½	50
95571	No. 8	⅝	50
95572	No.8	¾	50
95573	No. 8	1	50
95574	No. 8	1¼	50
95575	No. 8	1½	50
95580	No. 10	½	50
KP362	No. 10	⅝	100
95581	No. 10	¾	50
95582	No. 10	1	50
95583	No. 10	1¼	50
95584	No. 10	1½	50
KP367	No. 10	2	50

Indented Hex Washer Head #3 Point

Part No.	Diameter	Length (In.)	Unit
95590	No. 12	¾	50
95591	No. 12	1"	50
95592	No. 12	1¼	50
95593	No. 12	1½	50
KP372	No. 12	2	25
95594	¼	¾	50
95595	¼	1"	50
95596	¼	1¼	50
95597	¼	1½	50
95598	¼	2"	50
95599	¼	2½	50

Hex Head Lag Screws

Stainless Steel (18-8) Hex Head Lag Screws



Part No.	Dia. (In.)	Length (In.)	Unit
64660	¼	1	50
64661	¼	1½	50
64662	¼	2	50
64663	¼	2½	50
64664	¼	3	50
64665	¼	3½	50
64669	⅝	1½	50
64670	⅝	2	50
C31841	⅝	2½	25
64671	⅝	3	50
C31843	⅝	3½	25
C31846	⅝	5	10
64676	⅜	1½	50
64677	⅜	2	50
C31850	⅜	2½	10
64678	⅜	3	50
C31852	⅜	3½	10
C31853	⅜	4	10
C645080	⅜	5	10
C645084	⅜	6	10
C31857	½	1½	10
¤C31858	½	2	10
¤C31859	½	2½	10
¤C31860	½	3	10
¤C31861	½	3½	10
C31862	½	4	5
C31864	½	5	5
C645118	½	6	5

Hex Nuts

316 Stainless Steel Hex Nuts



- UNC (USS) or UNF (SAE)
- Cold worked
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
30605	¼-20	30617	¼-28	100
MP30605	¼-20	*	¼-28	50
30606	⅝-18	30618	⅝-24	100
MP30606	⅝-18	*	⅝-24	50
30607	⅜-16	30619	⅜-24	100
MP30607	⅜-16	*	⅜-24	50
30608	7⁄16-14	*	7⁄16-20	50
MP30608	7⁄16-14	*	7⁄16-20	50
30609	½-13	30621	½-20	50
MP30609	½-13	*	½-20	50
30609-1	⅝-11	*	⅝-18	50
MP30609-1	⅝-11	*	⅝-18	25
30609-2	¾-10	*	¾-16	50
MP30609-2	¾-10	*	¾-16	25
30609-3	⅞-9	*	⅞-14	25
30609-4	1-8	*	1-12	25

* Item not available

316 Stainless Steel Heavy Hex Nuts



- UNC thread
- Passivated
- Nuts may be stamped 316 or 8M per ASTM A194 specification

UNC Part No.	Size (In.)	Unit
KP76127	¼-20	25
KP76128	⅝-18	25
KP76129	⅜-16	25
KP76130	½-13	25
KP76131	⅝-11	10
KP76132	¾-10	10

Stainless Steel (18-8) Hex Nuts



- UNC (USS) or UNF (SAE)
- Meets ANSI/ASME B18.6.3 dimensional specifications
- 304 or XM7 stainless steel
- Cold worked
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
KP77822	No. 2-56	*		50
93602	No. 4-40	*	No. 4-48	100
93603	No. 6-32	*	No. 6-40	100
93604	No. 8-32	*	No. 8-36	100
93605	No. 10-24	93607	No. 10-32	100
93605-2	No. 12-24	*	No. 12-32	100
93606	¼-20	92806	¼-28	100
MP93606	¼-20	*	¼-28	50
**KP1123	¼-20	*		50
93609	⅝-18	92809	⅝-24	100
MP93609	⅝-18	*	⅝-24	50
93611	⅜-16	92811	⅜-24	100
MP93611	⅜-16	*	⅜-24	50
93611-1	7⁄16-14	92812	7⁄16-20	100
MP93611-1	7⁄16-14	*	7⁄16-20	25
93613	½-13	92813	½-20	100
MP93613	½-13	*	½-20	25
93614	⅝-11	*	⅝-18	50
MP93614	⅝-11	*	⅝-18	25
93615	¾-10	*	¾-16	25
93616	⅞-9	*	⅞-14	25
MP93616	⅞-14	*	⅛-14	10
93617	1-8	*	1-14	25
MP93617	1-8	*	1-14	5

* Item not available

** Thin style for machine screws

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Stainless Steel (18-8) Heavy Hex Nuts



Note: With manufacturer's identification symbol

- UNC (USS)
- Meets ASTM A194 Grade 8 specifications
- 304 stainless steel
- 80,000 psi proof load
- Cold worked
- Passivated

Part No.	Size (In.)	Unit
93850	¼-20	100
93851	5⁄16-18	100
93852	⅜-16	100
93853	7⁄16-14	50
93854	½-13	50
93855	⅝-11	50
93856	¾-10	25
93857	⅞-9	10
93858	1-8	10
93859	1¼-7	10

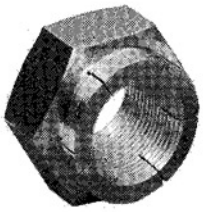
Stainless Steel (18-8) Hex Jam Nuts



- UNC (USS)or UNF (SAE)
- Meets ANSI/ASME B18.2.2 specifications

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
93660	¼-20	93658	¼-28	100
93661	5⁄16-18	93659	5⁄16-24	100
93662	⅜-16	93659-1	⅜-24	100
93663	7⁄16-14	93660-1	7⁄16-20	50
93664	½-13	93660-2	½-20	50
93665	9⁄16-12	*	9⁄16-18	50
93666	⅝-11	93661-1	⅝-18	50
93667	¾-10	93662-1	¾-16	25
93668	⅞-9	*	⅞-14	25
93669	1-8	93663-1	1-14	25

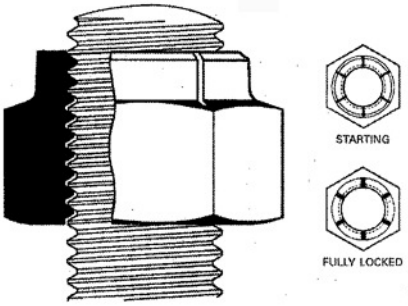
Stainless Steel FLEXLOC® Lock Nut All Metal Prevailing Torque



- UNC or UNF
- 304 Stainless Steel
- Maximum Temperature Limit 800° F
- Not recommended for reusability
- Can be used as a stop nut (not seated) or lock nut (seated)
- Light Hex, Full Height Style

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
440030	6-32	*		50
440031	8-32	*		50
440032	10-24	440039	10-32	50
440033	¼-20	440040	¼-28	25
440034	5⁄16-18	440041	5⁄16-24	25
440035	⅜-16	440042	⅜-24	10
440036	½-13	440043	½-20	10
440037	⅝-11	*		5
440038	¾-10	*		5

How FLEXLOC® Works



Starting - A FLEXLOC locknut starts on the threaded member like any ordinary nut. Put it on with your fingers. Tighten it with a standard hand or speed wrench.
Beginning to lock - As the bolt enters the locking area, the slotted section is expanded and the nut starts to lock.
Fully locked as a stop nut - When 1-1/2 threads of a standard bolt are past the top of the nut, resiliency of the segmented section has fully locked the nut. It does not have to seat to lock.
Fully locked as a seated nut - The locking threads press inward against the bolt, lifting the nut upward and causing the remaining threads to bear against the lower surface of the bolt threads.
Vibration will not loosen an SPS® Locknut. (There is **never** any galling of threads.)

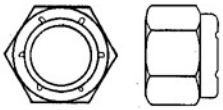
18-8 Stainless Steel Serrated Flange Lock Nuts



- Perfect for hi-tech, food processing, transportation, and chemical markets
- Free spinning
- Serrations provide superior holding power

UNC Part No.	Size (In.)	Flats (In.)	Flange Dia. (In.)	Height (In.)	Unit
KP716	8-32	11⁄32	15⁄32	13⁄64	50
KP717	10-24	⅜	½	7⁄32	50
KP718	¼-20	7⁄16	19⁄32	15⁄64	50
KP720	5⁄16-18	½	11⁄16	9⁄32	50
KP722	⅜-16	9⁄16	¾	11⁄32	25
KP724	½-13	¾	1 1⁄32	29⁄64	10

316 Stainless Steel Nylon Insert Lock Nuts



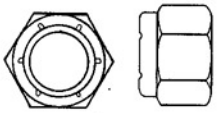
- UNC (USS) or UNF (SAE)
- Cold worked
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size	Unit
30631	No. 6-32	*	No. 6-40	50
30632	No. 8-32	*	No. 8-36	50
30633	No. 10-24	30645	No. 10-32	50
30634	¼-20	30646	¼-28	50
30635	5⁄16-18	30647	5⁄16-24	50
30636	⅜-16	30648	⅜-24	50
30637	7⁄16-14	*	7⁄16-20	25
30638	½-13	30650	½-20	25
MP30638	½-13	*	½-13	10
30639	⅝-11	*	⅝-18	25
MP30639	⅝-11	*	⅝-11	10
30640	¾-10	*	¾-18	25
MP30640		*	¾-10	10

* Item not available

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Stainless Steel (18-8) Nylon Insert Lock Nuts

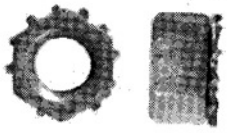


- UNC (USS) or UNF (SAE)
- 304 or XM7 stainless steel
- Cold worked
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
93618	No. 4-40	*	No. 4-48	100
93618-1	No. 6-32	*	No. 6-40	100
93622	No. 8-32	*	No. 8-36	100
93623	No. 10-24	93637	No. 10-32	100
C36888	No. 12-24	*		50
93624	¼-20	93619	¼-28	100
MP93624	¼-20	*	¼-28	25
93625	5⁄16-18	93620	5⁄16-24	100
MP93625	5⁄16-18	*	5⁄16-24	25
93626	⅜-16	93621	⅜-24	100
MP93626	⅜-24	*	⅜-24	10
93627	7⁄16-14	93631	7⁄16-20	50
MP93627	7⁄16-20	MP93631	7⁄16-20	10
93628	½-13	93632	½-20	50
MP93628	½-20	MP93632	½-20	10
93629	⅝-11	*	⅝-18	25
MP93629	⅝-18	*	⅝-18	10
93630	¾-10	*	¾-16	10
KP76511	⅞-9	*		10
KP76512	1-8	*		10

* Item not available

Stainless Steel (18-8) K-Lock Nuts
External Tooth Lock Washer Type



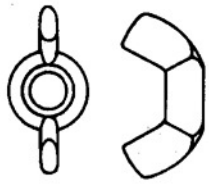
- UNC (USS) or UNF (SAE)
- Type 304 or XM7 stainless steel K-Lock nut
- Type 410 or 420 stainless steel lock washer
- Cold worked
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
31600	No. 4-40	*	No. 4-48	100
31601	No. 6-32	*	No. 6-40	100
31602	No. 8-32	*	No. 8-36	100
31603	No. 10-24	31604	No. 10-32	100
31605	¼-20	*	¼-28	100
31606	5⁄16-18	*	5⁄16-24	100
31607	⅜-16	*	⅜-24	100

* Item not available

Wing Nuts

Stainless Steel (18-8) Wing Nuts



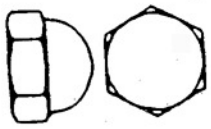
- UNC (USS) or UNF (SAE)
- Meets ANSI/ASME B18.17 dimensional specifications
- Passivated

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
C36856	6-32	*		50
C36857	8-32	*		50
C36858	10-24	C36865	10-32	50
93640	¼-20	93650	¼-28	25
93641	5⁄16-18	*	5⁄16-24	25
93642	⅜-16	*	⅜-24	25
93644	½-13	*	1¼ x ¾	10

* Item not available

Cap Nuts

Stainless Steel (18-8) Cap Nuts



- 304 stainless steel
- Passivated

Part No.	Size (In.)	Unit
KP86869	4-40	50
30360	6-32	100
30361	8-32	100
30362	10-32	100
30363	10-24	100
30364	¼-20	100
MP30364	¼-20	50
30365	5⁄16-18	100
MP30365	5⁄16-⅛	50
30366	⅜-16	100
MP30366	⅜-16	25
30367	½-13	50

Flat Washers

316 Stainless Steel Flat Washers
Narrow (SAE)



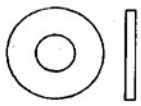
- Meets ANSI/ASME B18.22.1 specifications
- Cold worked
- Passivated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
30705	No. 4	.125	.312	.040	100
30706	No. 6	.156	.375	.065	100
30707	No. 8	.188	.438	.065	100
30708	No. 10	.219	.500	.065	100
30709	No. 12	.250	.562	.080	100
30710	¼	.281	.625	.068	100
C24656	¼	.281	.625	.080	50
30711	5⁄16	.344	.688	.086	100
C24657	5⁄16	.344	.688	.086	50
30712	⅜	.406	.812	.100	100
C24658	⅜	.406	.812	.100	25
30712-1	7⁄16	.469	.922	.101	100
C24659	7⁄16	.469	.922	.101	25
30713	½	.531	1.062	.118	100
C24660	½	.531	1.062	.182	10
30714	⅝	.656	1.312	.121	50
30714-T	⅝	.656	1.312	.182	10
30715	¾	.812	1.469	.160	50
30715-T	¾	.812	1.469	.182	10
30716	⅞	.935	1.750	.192	25
30717	1	1.062	2.000	.192	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
30705	0.008	0.005	0.008	0.005	0.025	0.040
30706	0.008	0.005	0.015	0.005	0.036	0.065
30707	0.008	0.005	0.015	0.005	0.036	0.065
30708	0.008	0.005	0.015	0.005	0.036	0.065
30709	0.008	0.005	0.015	0.005	0.051	0.080
30710	0.015	0.005	0.015	0.005	0.051	0.080
C24656	0.015	0.005	0.015	0.005	0.064	0.104
30711	0.015	0.005	0.015	0.005	0.051	0.080
C24657	0.015	0.005	0.015	0.005	0.064	0.104
30712	0.015	0.005	0.015	0.007	0.051	0.080
C24658	0.015	0.005	0.015	0.007	0.051	0.080
30712-1	0.015	0.005	0.015	0.007	0.051	0.080
C24659	0.015	0.005	0.015	0.007	0.051	0.080
30713	0.015	0.005	0.030	0.007	0.074	0.121
C24660	0.015	0.005	0.030	0.007	0.153	0.213
30714	0.030	0.007	0.030	0.007	0.074	0.121
30714-T	0.030	0.007	0.030	0.007	0.153	0.213
30715	0.030	0.007	0.030	0.007	0.108	0.160
30715-T	0.030	0.007	0.030	0.007	0.153	0.213
30716	0.030	0.007	0.030	0.007	0.136	0.192
30717	0.030	0.007	0.030	0.007	0.136	0.192

316 Stainless Steel Flat Washers
Wide (USS)



- Meets ANSI/ASME B18.22.1 dimensional specifications
- Cold worked
- Passivated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
30800	¼	.312	.734	.065	100
30801	5⁄16	.375	.875	.083	100
30802	⅜	.391	1.000	.083	100
30803	7⁄16	.500	1.250	.083	100
30804	½	.563	1.250	.109	100
30805	⅝	.688	1.500	.134	50

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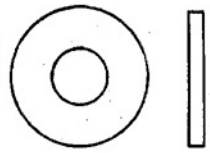
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Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
MP30805	5/8	.688	1.500	.134	10
30806	3/4	.812	1.875	.148	50
MP30806	3/4	.812	1.875	.148	10
30807	7/8	.937	2.250	.165	25
30808	1	1.062	2.500	.165	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
30800	0.015	0.005	0.015	0.007	0.051	0.080
30801	0.015	0.005	0.030	0.007	0.064	0.104
30802	0.015	0.005	0.030	0.007	0.064	0.104
30803	0.015	0.005	0.030	0.007	0.064	0.104
30804	0.015	0.005	0.030	0.007	0.086	0.132
30805	0.030	0.007	0.030	0.007	0.108	0.160
MP30805	0.030	0.007	0.007	0.030	0.108	0.160
30806	0.030	0.007	0.030	0.007	0.122	0.177
MP30806	0.030	0.007	0.007	0.030	0.122	0.177
30807	0.030	0.007	0.030	0.007	0.136	0.192
30808	0.030	0.007	0.030	0.007	0.136	0.192

Stainless Steel (18-8) Flat Washers
Narrow (SAE)



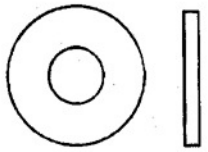
- Meets ANSI/ASME B 18.22.1 dimensional specifications
- 304 stainless steel
- Cold worked
- Passivated

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
KP77670	No. 2	.094	.188	.025	100
93760	No. 4	.125	.312	.032	100
93761	No. 6	.156	.375	.049	100
93762	No. 8	.188	.375	.049	100
93763	No. 10	.219	.445	.049	100
93764	No. 12	.257	.568	.065	100
93765	1/4	.281	.625	.065	100
93766	5/16	.344	.688	.065	100
93767	3/8	.406	.812	.065	100
93767-1	7/16	.469	.922	.065	100
MP93767-1	7/16	.469	.922	.065	50
93769	1/2	.531	1.062	.095	100
MP93769	1/2	.531	1.062	.095	50
93770	5/8	.656	1.312	.095	50
93771	3/4	.812	4.469	.134	25
93771-7/8	7/8	.938	1.750	.134	25
93771-1	1	1.062	2.000	.134	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
KP77670	0.000	0.005	0.000	0.005	0.022	0.028
93760	0.008	0.005	0.008	0.005	0.025	0.040
93761	0.008	0.005	0.015	0.005	0.036	0.065
93762	0.008	0.005	0.015	0.005	0.036	0.065
93763	0.008	0.005	0.015	0.005	0.036	0.065
93764	0.008	0.005	0.015	0.005	0.051	0.080
93765	0.015	0.005	0.015	0.005	0.051	0.080
93766	0.015	0.005	0.015	0.005	0.051	0.080
93767	0.015	0.005	0.015	0.005	0.051	0.080
93767-1	0.015	0.005	0.015	0.005	0.051	0.080
MP93767-1	0.015	0.005	0.015	0.005	0.051	0.080
93769	0.015	0.005	0.030	0.007	0.074	0.121
MP93769	0.015	0.007	0.030	0.007	0.074	0.121
93770	0.030	0.007	0.030	0.007	0.074	0.121
93771	0.030	0.007	0.030	0.007	0.108	0.160
93771-7/8	0.030	0.007	0.030	0.007	0.108	0.160
93771-1	0.030	0.007	0.030	0.007	0.108	0.160

Stainless Steel (18-8) Flat Washers
Wide (USS)



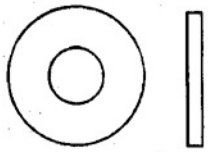
- Meets ANSI/ASME B 18.22.1 dimensional specifications
- 304 stainless steel
- Cold worked
- Passivated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thick. (In.)	Unit
KP77824	No. 2	.094	.250	.032	100
KP86842	No. 3	.109	.312	.032	100
KP77825	No. 4	.125	.375	.041	100
KP71055	No. 6	.156	.438	.041	100
KP71056	No. 8	.188	.50	.041	100
KP71057	No. 10	.203	.562	.041	100
93700	1/4	.312	.734	.065	100
93701	5/16	.375	.875	.088	100
93702	3/8	.438	1.000	.083	100
93703	7/16	.500	1.250	.083	100
93704	1/2	.562	1.375	.109	100
93705	5/8	.688	1.750	.134	50
93706	3/4	.812	2.000	.148	50
93707	7/8	.938	2.250	.165	25
93708	1	1.062	2.500	.165	25

Dimensional Tolerances

	Inside Dia.		Outside Dia.		Thickness	
Part No.	Plus	Minus	Plus	Minus	Min	Max
KP77824	0.000	0.005	0.000	0.005	0.028	0.036
KP86842	0.000	0.005	0.000	0.005	0.08	0.036
KP77825	0.008	0.005	0.008	0.005	0.036	0.045
KP71055	0.008	0.005	0.008	0.005	0.036	0.045
KP71056	0.008	0.005	0.008	0.005	0.036	0.045
KP71057	0.008	0.005	0.008	0.005	0.036	0.045
93700	0.015	0.005	0.015	0.007	0.051	0.080
93701	0.015	0.005	0.030	0.007	0.064	0.104
93702	0.015	0.005	0.030	0.007	0.064	0.104
93703	0.015	0.005	0.030	0.007	0.064	0.104
93704	0.015	0.005	0.030	0.007	0.086	0.160
93705	0.030	0.007	0.030	0.007	0.108	0.160
93706	0.030	0.007	0.030	0.007	0.122	0.177
93707	0.030	0.007	0.030	0.007	0.095	0.115
93708	0.030	0.007	0.030	0.007	0.115	0.135

Stainless Steel (18-8) Flat Washers



- Meets AN960 (Air-Force-Navy Aeronautical Standard) material and dimensional specifications
- 304 stainless steel
- Passivated

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
93750	1/4	.265	.500	.063	100
93751	5/16	.328	.562	.063	100
93752	3/8	.390	.625	.063	100
93753	7/16	.453	.750	.063	50
93754	1/2	.515	.875	.063	50
93755	9/16	.578	1.062	.063	50
93756	5/8	.640	1.188	.063	25
93757	3/4	.765	1.312	.090	25
93758	7/8	.890	1.500	.090	10
93759	1	1.015	1.750	.090	10

Stainless Steel (18-8) Fender Washers *or specify (316) when ordering*



- 18-8 stainless steel

Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
31800	#10	13/64	1	.056-.066	100
31801	1/4	9/32	1	.056-.066	100
31802	1/4	9/32	1 1/4	.056-.066	100
31803	1/4	9/32	1 1/2	.056-.066	100
31804	5/16	11/32	1 1/4	.0625	50
31805	5/16	11/32	1 1/2	.056-.066	50
31806	3/8	25/64	1 1/2	.056-.066	50
31807	1/2	9/16	2	.068-.078	50

GRAYSON INDUSTRIES, INC.

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18-8 Stainless Steel Finishing Washers



- Use with flat or oval head screw for a finished bearing surface

Part No.	Size	Unit
¤KP1432	No. 4	250
KP1433	No. 6	250
KP1434	No. 8	250
KP1435	No. 10	200
KP1436	No. 12	150
KP1437	No. 14	150
¤KP1438	5/16	50
¤KP1439	3/8	25

Lock Washers

316 Stainless Steel Lock Washers



- Meets ASME B18.21.1 specifications
- Cold worked

Part No.	Bolt Size (In.)	Unit
30720	1/4	100
30721	5/16	100

Stainless Steel (18-8) Lock Washers



- 304 stainless steel
- Cold worked
- Passivated
- Non-linking type

Part No.	Bolt Size	Unit
KP77826	No. 2	100
93772	No. 4	200
93773	No. 6	200
93774	No. 8	200
93775	No. 10	100
93776	No. 12	100
93777	1/4	100
93778	5/16	100
93779	3/8	100
93779-1	7/16	100
MP93779-1	7/16	50
93781	1/2	100
MP93781	1/2	50
93782	5/8	50
93783	3/4	25
93784	7/8	25
93785	1	25

18-8 Stainless Steel High Collar Lock Washers



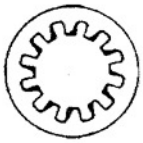
Stainless Steel Lock Washers

- 410 stainless steel
- Cold worked
- Passivated
- Vibration resistant



External Tooth Lock Washers

Part No.	Bolt Size	Unit
KP86829	No. 4	100
93802	No. 6	100
93803	No. 8	100
93804	No. 10	100
93805	No. 12	100
93806	1/4	100
93807	5/16	100
93808	3/8	100
93809	7/16	100
93810	1/2	100
93812	5/8	50
93813	3/4	50



Internal Tooth Lock Washers

Part No.	Bolt Size	Unit

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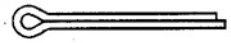
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Part No.	Dia. (In.)	Length (In.)	Unit
✦53609	5/32	2	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✦53611	3/16	2	50
✦53612	3/16	3	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✦53613	1/4	2	50
✦53614	1/4	3	50
✦53615	1/4	4	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
✦53616	5/16	3	50

✦Part numbers available in Canada only.

Stainless Steel (18-8) Cotter Pins
Extended Prong Type



- Meets ANSI/ASME B18.8.1 specifications
- 302 stainless steel

Part No.	Dia. (In.)	Length (In.)	Unit
92208	1/16	1/2	100
92209	1/16	3/4	100
92210	1/16	1	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92215	3/32	1/2	100
92216	3/32	3/4	100
92217	3/32	1	100
92218	3/32	1 1/4	100
92219	3/32	1 1/2	100
92221	3/32	2	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
C90035	1/8	1/2	50
92228	1/8	3/4	50
92229	1/8	1	50
92230	1/8	1 1/4	50
92231	1/8	1 1/2	50
92232	1/8	1 3/4	50
92233	1/8	2	50
92234	1/8	2 1/2	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92237	5/32	1	50
92238	5/32	1 1/4	50
92239	5/32	1 1/2	50
92240	5/32	1 3/4	50
92241	5/32	2	50
92243	5/32	2 1/2	50
92244	5/32	3	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
C90049	3/16	1	10
92248	3/16	1 1/2	50
92250	3/16	2	50
92252	3/16	2 1/2	50
92253	3/16	3	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92255	1/4	1 1/4	50
92256	1/4	1 1/2	50

Stainless Steel (18-8) Cotter Pins

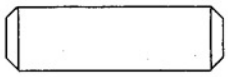


Part No.	Dia. (In.)	Length (In.)	Unit
✦CD550524	1/4	2	100
✦92258	1/4	3	50

✦Canada only

Dowel Pins

Stainless Steel (18-8) Dowel Pins



- 303 stainless steel
- Cold worked
- Precision ground
- Chamfered both ends

Part No.	Dia. (In.)	Length (In.)	Unit
92258-2	1/16	1/4	50
92258-3	1/16	3/8	50
92258-4	1/16	1/2	50
92258-5	1/16	5/8	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92260-1	3/32	1/4	50
92260-2	3/32	3/8	50
92260-3	3/32	1/2	50
92260-4	3/32	5/8	50
92260-5	3/32	3/4	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92262	1/8	1/4	50
92263	1/8	3/8	25
MP92263	1/8	3/8	10
92264	1/8	1/2	25
MP92264	1/8	1/2	10
92265	1/8	3/4	25
MP92265	1/8	3/4	10
92266	1/8	1	25
MP92266	1/8	1	10
92267	1/8	1 1/2	25
MP92267	1/8	1 1/2	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92268	3/16	3/8	25
92269	3/16	1/2	25
MP92269	3/16	1/2	10
92270	3/16	3/4	25
MP92270	3/16	3/4	10
92271	3/16	1	25
MP92271	3/16	1	10
92272	3/16	1 1/2	25
MP92272	3/16	1 1/2	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92274	1/4	1/2	25
MP92274	1/4	1/2	10
92275	1/4	5/8	25
92276	1/4	3/4	25
MP92276	1/4	3/4	10
92277	1/4	1	25
MP92277	1/4	1	10
92278	1/4	1 1/4	25
MP92278	1/4	1 1/4	10
92279	1/4	1 1/2	25
MP92279	1/4	1 1/2	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92280	1/4	1 3/4	25
92281	1/4	2	25
MP92281	1/4	2	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92283	5/16	3/4	25
92284	5/16	1	25
MP92284	5/16	1	10
92285	5/16	1 1/4	25
92286	5/16	1 1/2	25
MP92286	5/16	1 1/2	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
92288	3/8	3/4	25
92289	3/8	1	25
MP92289	3/8	1	10
92290	3/8	1 1/4	25
92291	3/8	1 1/2	25
MP92291	3/8	1 1/2	10
92292	3/8	2	25
MP92292	3/8	2	10

Threaded Rod

316 Stainless Steel Threaded Rod Stock



- UNC (USS)
- End painted yellow

Part No.	Length (In.)	Dia. (In.)	TPI	Unit
30660	36	1/4	20	1
30661	36	5/16	18	1
30662	36	3/8	16	1
30663	36	7/16	14	1
30664	36	1/2	13	1
30665	36	5/8	11	1
30666	36	3/4	10	1
30667	36	7/8	9	1
30668	36	1	8	1
Part No.	**Length (In.)**	**Dia. (In.)**	**TPI**	**Unit**
30670	72	1/4	20	1
30671	72	5/16	18	1
30672	72	3/8	16	1
30673	72	7/16	14	1
30674	72	1/2	13	1
30675	72	5/8	11	1
30676	72	3/4	10	1
30677	72	7/8	9	1
30678	72	1	8	1

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Stainless Steel/Non-Ferrous Fasteners

Stainless Steel (18-8) Threaded Rod Stock



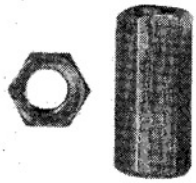
- UNC (USS)
- 302 or 304 stainless steel
- Cold worked
- Passivated
- End painted blue

Part No.	Length (In.)	Dia. (In.)	TPI	Unit
KP74676	36	No. 8	32	1
KP74677	36	No. 10	24	1
93550	36	¼	20	1
93551	36	5/16	18	1
93552	36	⅜	16	1
93553	36	7/16	14	1
93554	36	½	13	1
93555	36	⅝	11	1
93556	36	¾	10	1
93557	36	⅞	9	1
93558	36	1	8	1

Part No.	Length (In.)	Dia. (In.)	TPI	Unit
93560	72	¼	20	1
93561	72	5/16	18	1
93562	72	⅜	16	1
93563	72	7/16	14	1
93564	72	½	13	1
93565	72	⅝	11	1
93566	72	¾	10	1
93567	72	⅞	9	1
93568	72	1	8	1

Coupling Nuts

Stainless Steel (18-8) Threaded Rod Couplers



- UNC (USS)
- 303, 304 or XM7 stainless steel
- Passivated

Part No.	Dia. (In.)	TPI	Unit
KP1389	No. 10	24	5
93570	¼	20	5
93571	5/16	18	5
93572	⅜	16	5
93573	7/16	14	2
93574	½	13	2
93575	⅝	11	2
93576	¾	10	1
93577	⅞	9	1
93578	1	8	1

18-8 Stainless Steel Square Key Stock

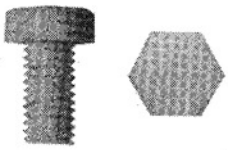


- 12″ length
- Tolerances:
  1/8 to 7/16 +.000 - .002
  1/2 to 3/4 +.000 - .004

Part No.	Size	Unit
KP1909	⅛	1
KP1910	3/16	1
KP1911	¼	1
KP1912	5/16	1
KP1913	⅜	1
KP1914	7/16	1
KP1915	½	1
KP1916	⅝	1
KP1917	¾	1

Nylon Cap Screws

Nylon Hex Head Cap Screws



- UNC(USS)
- Type 6/6 general-purpose white nylon
- Meets MIL-M20693B "A" Type 1, LP410A and ASTM D789-66 Type 1, GDE2
- Molded thread approximate UNC/UNF 2A
- Tough and lightweight
- Corrosion resistant
- Good electrical insulators
- Environment may affect moisture content of nylon

Part No.	Dia.-TPI (In.)	Length (In.)	Installation Torque (Lbs.)	Unit
37100	¼-20	½	15-16 in.	100
37101	¼-20	¾	15-16 in.	100
37102	¼-20	1	15-16 in.	100
37103	¼-20	1¼	15-16 in.	100
37104	¼-20	1½	15-16 in.	100
37105	¼-20	2	15-16 in.	100

Part No.	Dia.-TPI (In.)	Length (In.)	Installation Torque (Lbs.)	Unit
37106	5/16-18	½	32-34 in.	100
37107	5/16-18	¾	32-34 in.	100
37108	5/16-18	1	32-34 in.	100
37109	5/16-18	1¼	32-34 in.	100
37110	5/16-18	1½	32-34 in.	100
37111	5/16-18	2	32-34 in.	100

Part No.	Dia.-TPI (In.)	Length (In.)	Installation Torque (Lbs.)	Unit
37112	⅜-16	½	45-46 in.	100
37113	⅜-16	¾	45-46 in.	100
37114	⅜-16	1	45-46 in.	100
37115	⅜-16	1¼	45-46 in.	100
37116	⅜-16	1½	45-46 in.	100
37117	⅜-16	2	45-46 in.	100
37118	½-13	1	7-8 ft.	50
37119	½-13	1½	7-8 ft.	50
37120	½-13	2	7-8 ft.	50

Remember that you can always call our Customer Service Department when you need a sample.

And if you're not sure of exactly what type of fastener you need, rest assured that one call to our Customer Service Department can get you the answer you are looking for!

We're here to serve you so feel free to call us with any questions you may have.

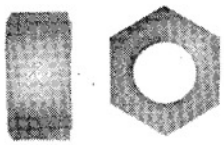
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Nylon Hex Nuts

Nylon Hex Nuts

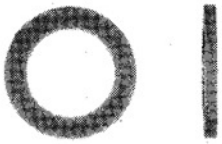


- UNC (USS)
- Type 6/6 general-purpose white nylon
- Meets MIL-M20693B "A" Type 1, LP410A and ASTM D789-66 Type 1, GDE2
- Molded thread approximate UNC/UNF-2B
- Tough and lightweight
- Corrosion resistant
- Good electrical insulators
- Environment may effect moisture content of nylon

Part No.	Size (In.)	Installation Torque (Lbs.)	Unit
37125	¼-20	17 in.	100
37126	5⁄16-18	42 in.	100
37127	⅜-16	72 in.	100
37128	½-13	13 ft.	100

Nylon Washers

Nylon Flat Washers



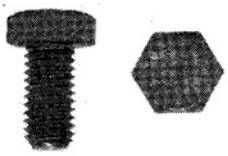
- Type 6/6 general-purpose white nylon
- Meets MIL-M20693B "A" Type 1, LP410A and ASTM D789-66 Type 1, GDE2
- Tough and lightweight
- Corrosion resistant
- Good electrical insulators
- Environment may effect moisture content of nylon

Part No.	Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
37130	¼	.257	.500	.062	100
+CD552994	¼	.317	.750		50
37131	5⁄16	.317	.500	.062	100
+CD552990	5⁄16	.380	.625		50
+CD552999	5⁄16	.343	.875		50
37132	⅜	.380	.625	.062	100
+CD553000	⅜	.406	1.0		50
37133	½	.505	.750	.062	100

+Canada Only

Silicon Bronze Cap Screws

Silicon Bronze Hex Head Cap Screws



- UNC (USS)
- Meets ANSI/ASME B18.2.1 dimensional specifications
- Alloy 651
- 70,000 psi minimum tensile strength
- Corrosion resistant
- Non-magnetic

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
30730	¼-20	½	25
30731	¼-20	¾	25
30732	¼-20	1	25
30733	¼-20	1¼	25
30734	¼-20	1½	25
30735	¼-20	1¾	25
30736	¼-20	2	25
30737	¼-20	2½	25
30738	¼-20	3	25
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
30739	5⁄16-18	½	25
30740	5⁄16-18	¾	25
30741	5⁄16-18	1	25
30742	5⁄16-18	1¼	25
30743	5⁄16-18	1½	25
30744	5⁄16-18	1¾	25
30745	5⁄16-18	2	10
30746	5⁄16-18	2½	10
30747	5⁄16-18	3	10
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
30748	⅜-16	½	25
30749	⅜-16	¾	25
30750	⅜-16	1	25
30751	⅜-16	1¼	25
30752	⅜-16	1½	25
30753	⅜-16	1¾	25
30754	⅜-16	2	10
30755	⅜-16	2½	10
30756	⅜-16	3	10
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
30757	½-13	¾	10
30758	½-13	1	10
30759	½-13	1¼	10
30760	½-13	1½	10
30761	½-13	1¾	10
30762	½-13	2	10
30762-1	½-13	2¼	10
30763	½-13	2½	10
30764	½-13	3	10
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
30780	⅝-11	1	10
30781	⅝-11	1¼	10
30782	⅝-11	1½	10
30783	⅝-11	1¾	10
30784	⅝-11	2	10
30785	⅝-11	2½	10
30786	⅝-11	2¾	10
30787	⅝-11	3	10

Silicon Bronze Hex Nuts

Silicon Bronze Hex Nuts



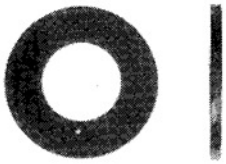
- UNC (USS)
- Meets ANSI/ASME B18.2.2 dimensional specifications
- Alloy 651
- 70,000 psi proof load
- Corrosion resistant
- Non-magnetic

Part No.	Size (In.)	Unit
30765	¼-20	25
30766	5⁄16-18	25
30767	⅜-16	25
30768	½-13	10
30769	⅝-11	10

Silicon Bronze Washers

Silicon Bronze Flat Washers

Narrow (SAE)



- Meets ANSI/ASME B18.22.1 dimensional specifications
- Alloy 651 or 655
- Corrosion resistant
- Non-magnetic

Part No.	Size (In.)	Unit
30775	¼	25
30776	5⁄16	25
30777	⅜	25
30778	½	10
30779	⅝	10

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Silicon Bronze Helical Spring Lock Washers, Regular

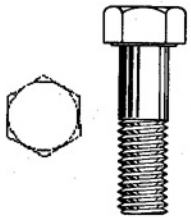


- Meets ASME B18.21.1 specifications
- Alloy 651
- Corrosion resistant
- Non-magnetic

Part No.	Size (In.)	Unit
30669	#10	100
30770	¼	25
30771	5⁄16	25
30772	⅜	25
30773	½	10
30774	⅝	10

Brass Cap Screws

Brass Hex Head Cap Screws

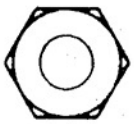


- UNC (USS)
- Yellow brass

Part No.	Dia. - TPI (In.)	Length (In.)	Unit
¤90400	¼-20	⅜	100
90401	¼-20	½	100
90402	¼-20	⅝	100
90403	¼-20	¾	100
¤90404	¼-20	⅞	100
90405	¼-20	1	100
90406	¼-20	1¼	100
90407	¼-20	1½	100
90408	¼-20	1¾	100
90409	¼-20	2	50
90410	¼-20	2¼	50
90411	¼-20	2½	50
90412	¼-20	3	50
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
90420	5⁄16-18	½	100
90422	5⁄16-18	¾	100
90424	5⁄16-18	1	100
90425	5⁄16-18	1¼	50
90426	5⁄16-18	1½	50
90427	5⁄16-18	1¾	50
90428	5⁄16-18	2	50
90430	5⁄16-18	2½	50
90431	5⁄16-18	3	50
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
90440	⅜-16	½	50
90442	⅜-16	¾	50
¤90443	⅜-16	⅞	50
90444	⅜-16	1	50
90445	⅜-16	1¼	50
90446	⅜-16	1½	50
90447	⅜-16	1¾	50
90448	⅜-16	2	25
90449	⅜-16	2¼	25
90450	⅜-16	2½	25
90451	⅜-16	3	25
90452	⅜-16	3½	25
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
90460	½-13	¾	25
90462	½-13	1	25
90463	½-13	1¼	25
90464	½-13	1½	25
90465	½-13	1¾	25
90466	½-13	2	25
Part No.	**Dia. - TPI (In.)**	**Length (In.)**	**Unit**
90482	⅝-11	1½	5
90483	⅝-11	2	5
90484	⅝-11	2½	5
90485	⅝-11	3	5

Brass Hex Nuts

Brass Hex Nuts

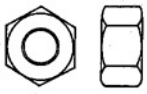


- UNC (USS) or UNF (SAE)
- Non-magnetic

UNC Part No.	Size (In.)	UNF Part No.	Size (In.)	Unit
91601	No. 4 - 40	*	No. 4 - 48	100
91603	No. 6 - 32	*	No. 6 - 40	100
91604	No. 8 - 32	*	No. 8 - 36	100
91605	No. 10 - 24	91615	No. 10 - 32	100
91606	No. 12 - 24	*	No. 12 - 28	100
91607	¼ - 20	*	¼ - 28	100
32222	5⁄16 - 18	32232	5⁄16 - 24	50
32223	⅜ - 16	32233	⅜ - 24	50
32224	7⁄16 - 14	32234	7⁄16 - 20	50
32224-X	7⁄16 - 14	*	7⁄16 - 20	50
32225	½ - 13	32235	½ - 20	50

NOTE: Part No. 32223-X thickness is oversize. Part No. 32224 undersize across the flats-thickness is oversize.

Brass Heavy Hex Nuts

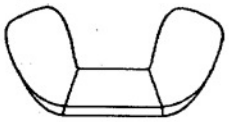


- UNC (USS)
- Non-magnetic

Part No.	Size	Unit
91800	¼ - 20	100
91801	5⁄16 - 18	100
91802	⅜ - 16	100
91804	½ - 13	50
91806	⅝ - 11	50

Brass Wing Nuts

Brass Wing Nuts

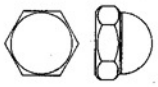


- UNC (USS)
- Type A
- Light series
- Non-magnetic

Part No.	Size	Unit
91630	No. 10-24	100
91631	¼-20	100
91632	5⁄16-18	50
91633	⅜-16	50

Brass Cap Nuts

Brass Cap Nuts



- UNC (USS)
- Non-magnetic

Part No.	Size	Unit
91665	No. 10 - 24	100
91666	¼ - 20	100
91667	5⁄16 - 18	50
91668	⅜ - 16	50

Brass Washers

Brass Machine Screw Flat Washer (Non-Plated)



- Yellow brass
- Non-magnetic

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
C613603	No. 6	.147	5⁄16	.028	100
91751	No. 6	.15	⅜	.032	100
91761	No. 6	.15	⅜	.032	1 lb.
C613605	No. 8	.172	⅜	.032	100
91752	No. 8	.172	7⁄16	.036	100
91762	No. 8	.172	7⁄16	.036	1 lb.
C613607	No. 10	.200	7⁄16	.036	100
91753	No. 10	.200	½	.040	100
91763	No. 10	.200	½	.040	1 lb.
C613609	No. 12	.227	½	.040	100
91754	No. 12	.228	9⁄16	.040	100
91764	No. 12	.228	9⁄16	.040	1 lb.
C613611	¼	.260	9⁄16	.040	100

Continued on next page

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Continued from previous page

Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thick (In.)	Unit
91755	¼	.260	11⁄16	.051	100
91765	¼	.260	11⁄16	.051	1 lb.
C613613	No. 16	.282	5⁄8	.040	100
C613615	No. 18	.310	11⁄16	.051	100
✤CD559540	5⁄16	.339	¾	.062	100
91766	5⁄16	.339	.868	.057	1 lb.
✤CD559115	⅜	.391	⅞	.062	100
91767	⅜	.391	1	.081	1 lb.
91769	½	9⁄16	1¼	.091	1 lb.
91771	⅝	11⁄16	1½	.102	1 lb.

✤Canada only

Brass Flat Washer Pounds to Pieces Conversion

Part No.	Pieces/Lb
91761	1160
91762	740
91763	506
91764	410
91765	210
91767	63
91769	38
91771	24

Brass Machine Screw Flat Washer (Nickel-Plated)



- Yellow brass
- Non-magnetic

Part No.	Bolt Size	Unit
91741	No. 6	100
91742	No. 8	100
91743	No. 10	100
91745	¼	100

Brass Finishing Washer Flush Type (Nickel-Plated)



- Yellow brass
- Non-magnetic

Part No.	Size	Unit
C5639	No. 6	100
31383	No. 8	100
31384	No. 10	100
31385	No. 12	100

Brass Finishing Washer Countersunk Type (Nickel-Plated)

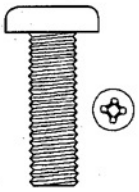


- Yellow brass
- Non-magnetic

Part No.	Bolt Size	Unit
C30434	No. 4	100
31392	No. 6	100
31393	No. 8	100
31394	No. 10	100
31395	No. 12	100
31396	¼	100

Brass Machine Screws

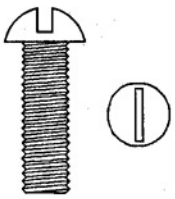
Brass Machine Screws
Phillips Pan Head



- UNC (USS) or UNF (SAE)
- Yellow brass
- Non-magnetic
- Non-plated

UNC Part No. TPI-24	UNF Part No. TPI 32	Dia.	Length (In.)	Unit
90690	–	No.10	⅜	50
90691	–	No.10	½	50
90692	–	No.10	¾	50

Brass Machine Screws
Slotted Round Head



- UNC (USS) or UNF (SAE)
- Yellow brass
- Non-magnetic
- Non-plated

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
90505	*	No. 4	⅜	100
90506	*	No. 4	½	50
90508	*	No. 4	¾	50
90520	*	No. 4	1	50

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
90526	*	No. 6	¼	50
90527	*	No. 6	⅜	50
90528	*	No. 6	½	50
¤C626108	*	No. 6	⅝	100
90530	*	No. 6	¾	50
90532	*	No. 6	1	50
90535	*	No. 6	1½	50
90536	*	No. 6	2	50

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
¤C626138	*	No. 8	3⁄16	100
90542	*	No. 8	¼	100
90543	*	No. 8	⅜	100
90544	*	No. 8	½	100
¤90545	*	No. 8	⅝	50
90546	*	No. 8	¾	50
90548	*	No. 8	1	50
KP55014	*	No. 8	1¼	100
90551	*	No. 8	1½	50
90553	*	No. 8	2	50

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
C626180	¤C626181	No. 10	¼	100
90563	90582	No. 10	⅜	50
90564	90584	No. 10	½	50
90566	90586	No. 10	¾	50
90568	90588	No. 10	1	50
90571	*	No. 10	1½	50
*	KP55026	No. 10	1½	100
90573	*	No. 10	2	50
*	KP55028	No. 10	2	100

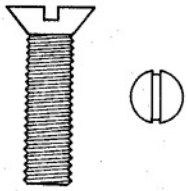
UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
90603	*	No. 12	½	50
90604	*	No. 12	¾	50
90605	*	No. 12	1	50
¤90606	*	No. 12	1½	50
¤90607	*	No. 12	2	50

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
90622	*	¼	½	50
90624	*	¼	¾	50
90626	*	¼	1	50
90629	*	¼	1½	50
90631	*	¼	2	50

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Brass Machine Screws

Slotted Flat Head



- UNC (USS) or UNF (SAE)
- Yellow brass
- Non-magnetic
- Non-plated

UNC Part No. TPI-40	UNF Part No. TPI-48	Dia.	Length (In.)	Unit
¤90640	*	No. 4	½	50
¤90641	*	No. 4	¾	50
¤90642	*	No. 4	1	50

UNC Part No. TPI-32	UNF Part No. TPI-40	Dia.	Length (In.)	Unit
90645	*	No. 6	¼	50
90646	*	No. 6	⅜	50
90647	*	No. 6	½	50
¤90648	*	No. 6	¾	50
90649	*	No. 6	1	50
¤90650	*	No. 6	1½	50
¤90651	*	No. 6	2	50

UNC Part No. TPI-32	UNF Part No. TPI-36	Dia.	Length (In.)	Unit
¤90655	*	No. 8	¼	50
90656	*	No. 8	⅜	50
90657	*	No. 8	½	50
¤90658	*	No. 8	¾	50
90659	*	No. 8	1	50
¤90660	*	No. 8	1½	50
¤90661	*	No. 8	2	50

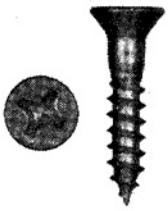
UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
¤90665	¤90675	No. 10	⅜	50
90666	90676	No. 10	½	50
90667	90677	No. 10	¾	50
*	¤KP23123	No. 10	⅞	100
90668	90678	No. 10	1	50
¤90669	*	No. 10	1½	50
¤90670	*	No. 10	2	50

UNC Part No. TPI-24	UNF Part No. TPI-32	Dia.	Length (In.)	Unit
¤90680	*	No. 12	½	50
¤90681	*	No. 12	¾	50
¤90682	*	No. 12	1	50
¤90683	*	No. 12	1½	50
¤90684	*	No. 12	2	50

UNC Part No. TPI-20	UNF Part No. TPI-28	Dia.	Length (In.)	Unit
90685	*	¼	½	50
90686	*	¼	¾	50
90687	*	¼	1	50
90688	*	¼	1½	50
90689	*	¼	2	50

Brass Wood Screws

Phillips Flat Head Wood Screws



- Yellow brass
- Non-magnetic

Part No.	Dia.	Length (In.)	Unit
KP23647	No. 6	¾	100
KP23649	No. 6	1	100
KP23650	No. 6	1¼	100

Part No.	Dia.	Length (In.)	Unit
KP23653	No. 8	¾	100
KP23655	No. 8	1	100
KP23656	No. 8	1¼	100
KP23657	No. 8	1½	100

Part No.	Dia.	Length (In.)	Unit
KP23658	No. 10	1	100
KP23659	No. 10	1¼	100
KP23660	No. 10	1½	100
KP23662	No. 10	2	100

Part No.	Dia.	Length (In.)	Unit
KP23663	No. 12	1	100
KP23664	No. 12	1¼	100
KP23665	No. 12	1½	100
KP23667	No. 12	2	100

Brass Square Drive Flat Head Wood Screws – ⌖Canada Only



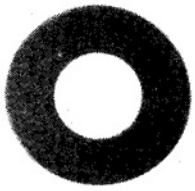
- Solid brass
- Superior corrosion resistance

Part No.	Dia.	Length (In.)	Unit
⌖C68849	No. 4	⅜	100
⌖C68850	No. 4	½	100
⌖C68851	No. 4	⅝	100
⌖C68852	No. 4	¾	100
⌖C68854	No. 4	1	100
⌖C68855	No. 5	½	100
⌖C68856	No. 5	⅝	100
⌖C68857	No. 5	¾	100
⌖C68859	No. 5	1	100
⌖C68861	No. 6	½	100
⌖C68862	No. 6	⅝	100
⌖C68863	No. 6	¾	100
⌖C68865	No. 6	1	100
⌖C68866	No. 6	1¼	100
⌖C68867	No. 6	1½	100
⌖C68868	No. 7	⅝	100
⌖C68869	No. 7	¾	100
⌖C68871	No. 7	1	100
⌖C68872	No. 7	1¼	100
⌖C68873	No. 7	1½	100
⌖C68874	No. 8	½	100
⌖C68875	No. 8	¾	100
⌖C68876	No. 8	¾	100
⌖C68878	No. 8	1	100
⌖C68879	No. 8	1¼	100
⌖C68880	No. 8	1¼	100
⌖C68882	No. 8	2	100
⌖C68885	No. 9	1	100
⌖C68886	No. 9	1¼	100
⌖C68887	No. 9	1½	100
⌖C68888	No. 10	¾	100
⌖C68890	No. 10	1	100
⌖C68891	No. 10	1¼	100
⌖C68892	No. 10	1½	100
⌖C68893	No. 10	1¾	100
⌖C68894	No. 10	2	100
⌖C68895	No. 10	2½	100
⌖C68897	No. 12	1	100
⌖C68898	No. 12	1¼	100
⌖C68899	No. 12	1½	100
⌖C68900	No. 12	1¾	100
⌖C68901	No. 12	2	100
⌖C68903	No. 12	2½	100
⌖C68904	No. 12	3	100
⌖C68905	No. 14	1½	100
⌖C68906	No. 14	1½	100

Copper Flat Washers

Copper Flat Washers

- Solid copper
- Non-magnetic
- Non-plated



Part No.	Bolt Size	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
38890	No. 10	13/64	½	.040	100
MP38890	No. 10	13/64	½	.040	25
38891	¼	17/64	11/16	.051	100
MP38891	¼	17/64	11/16	.051	25
38892	5/16	11/32	⅞	.064	100
MP38892	5/16	11/32	⅞	.064	25
KP60811	⅜	25/64	¾	.064	50
38893	⅜	25/64	1	.081	50
MP38893	⅜	25/64	1	.081	10
38893-1	7/16	½	13/16	.091	50
KP60813	½	9/16	⅞	.064	50
38894	½	9/16	1⅜	.091	50
MP38894	½	9/16	1⅜	.091	10
38895	⅝	11/16	1⅜	.091	50
38896	¾	13/16	2	.125	25
38897-1	1	1 1/16	2½	.128	10

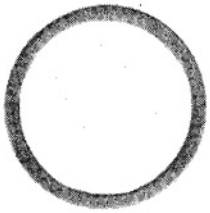
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114 Non-Ferrous Fasteners & Metric Fasteners

Copper Gaskets

Washer Type

- Solid copper
- Non-magnetic
- Non-plated



Part No.	Bolt Size (In.)	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
38868	1/4	5/16	7/16	1/16	50
38869	5/16	21/64	1/2	1/16	50
38870	3/8	13/32	5/8	1/16	50
38870-1	3/8	7/16	13/16	1/16	50
38873	7/16	29/64	11/16	1/32	50
38871	7/16	15/32	13/16	1/16	50
38876	1/2	33/64	45/64	1/32	50
38874	1/2	33/64	13/16	1/32	50
38872	1/2	17/32	13/16	1/16	50
38875	1/2	9/16	13/16	1/32	50
38877	9/16	39/64	13/16	1/32	50
38879	5/8	21/32	1	1/16	50
38879-1	3/4	27/32	1	1/16	25
38880	7/8	1	1 1/4	1/16	50
38878-1	1 1/4	1 3/8	1 5/8	1/16	50

Copper Sealing Washers

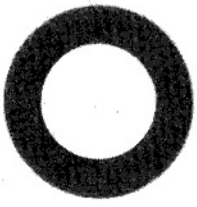


- Solid Copper
- Non-Magnetic
- Use as a gasket or bushing.

Part No.	Size (In.)	O.D. (In.)	Thick (In.)	Unit
C613701	1/4	7/16	1/32	100
C613703	5/16	1/2	1/32	100
C613705	3/8	9/16	1/32	100
C613707	7/16	5/8	1/32	100
C613709	1/2	1 1/16	1/32	100

Fibre Washers

Fibre Washers

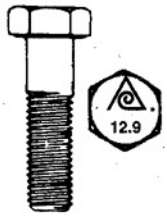


- Vulcanized fibre
- Electrical insulator
- Moisture resistant
- Non-compressable

Part No.	I.D. (In.)	O.D. (In.)	Thickness (In.)	Unit
31452	1/8	1/4	1/32	50
31455	3/16	9/32	1/16	50
31456	3/16	3/8	1/32	50
31457	3/16	5/8	1/64	50
31459	7/32	9/16	1/32	50
C9310	1/4	3/8	1/32	100
31461	1/4	7/16	1/32	50
31464	9/32	1/2	3/64	50
31466	5/16	1/2	1/32	50
31467	5/16	9/16	1/32	50
31469	3/8	9/16	1/32	50
31470	3/8	11/16	3/64	50
31474	1/2	3/4	1/16	25
31475	1/2	7/8	1/16	25
31476	9/16	7/8	1/16	25
31477	9/16	3/4	1/32	25
31480	19/32	1	1/16	25
31481	5/8	7/8	3/64	25
31482	5/8	1	1/16	25
31483	3/4	1 1/8	3/64	25
31484	3/4	1 3/16	1/16	25
31485	7/8	1 3/16	1/16	50
31486	7/8	1 5/16	3/32	25
31487	1	1 5/16	1/16	25
31488	1	1 7/16	3/32	25

12.9 Hex Head Cap Screws

Bowmetric® 12.9 Hex Head Cap Screws



BOWMAN Unichrome PLATING™

- Meets ISO property class 12.9 specifications
- Cold formed from high-strength alloy steel
- 20% higher head
- Multiple heat treated
- Standard thread
- For use with Bowman flat washers 43981 series, and Bowma-Grip nuts 41769 series

Part No.	Dia. x Pitch	Length (mm)	Unit
44009	M5 x 0.8	16	50
44010	M5 x 0.8	20	50
44011	M5 x 0.8	30	50
44012	M5 x 0.8	40	50

Part No.	Dia. x Pitch	Length (mm)	Unit
44018	M6 x 1.0	12	50
44019	M6 x 1.0	16	50
44021	M6 x 1.0	20	50
44023	M6 x 1.0	25	50
44025	M6 x 1.0	30	50
44027	M6 x 1.0	40	50
44029	M6 x 1.0	50	50
44030	M6 x 1.0	60	50
44031	M6 x 1.0	70	50

Part No.	Dia. x Pitch	Length (mm)	Unit
44050	M8 x 1.25	16	50
44051	M8 x 1.25	20	50
44053	M8 x 1.25	25	50
44055	M8 x 1.25	30	50
44056	M8 x 1.25	35	50
MP44056	M8 x 1.25	35	25
44057	M8 x 1.25	40	50
MP44057	M8 x 1.25	40	25
44059	M8 x 1.25	50	50
MP44059	M8 x 1.25	50	25
44061	M8 x 1.25	60	50
44063	M8 x 1.25	70	50

Part No.	Dia. x Pitch	Length (mm)	Unit
44071	M10 x 1.5	20	50
MP44071	M10 x 1.5	20	25
44072	M10 x 1.5	25	50
44075	M10 x 1.5	30	50
MP44075	M10 x 1.5	30	25
44076	M10 x 1.5	35	50
44077	M10 x 1.5	40	50
MP44077	M10 x 1.5	40	25
44078	M10 x 1.5	45	50
44079	M10 x 1.5	50	50
MP44079	M10 x 1.5	50	10
44080	M10 x 1.5	55	50
44081	M10 x 1.5	60	50
MP44081	M10 x 1.5	60	10
44083	M10 x 1.5	70	50
MP44083	M10 x 1.5	70	10
44085	M10 x 1.5	80	25
44087	M10 x 1.5	100	25

Part No.	Dia. x Pitch	Length (mm)	Unit
44090	M12 x 1.75	20	25
MP44090	M12 x 1.75	20	10
44091	M12 x 1.75	30	25
MP44091	M12 x 1.75	30	10
44092	M12 x 1.75	40	25
MP44092	M12 x 1.75	40	10
44093	M12 x 1.75	50	25
MP44093	M12 x 1.75	50	10
44097	M12 x 1.75	60	25
MP44097	M12 x 1.75	60	10
44098	M12 x 1.75	70	25
MP44098	M12 x 1.75	70	10
44101	M12 x 1.75	80	25
MP44101	M12 x 1.75	80	10
44103	M12 x 1.75	90	25

Part No.	Dia. x Pitch	Length (mm)	Unit
44118	M16 x 2.0	40	10
44119	M16 x 2.0	50	10
44120	M16 x 2.0	60	10
44121	M16 x 2.0	70	10
44122	M16 x 2.0	80	10
44123	M16 x 2.0	90	5
44124	M16 x 2.0	100	5
44125	M16 x 2.0	120	5

Part No.	Dia. x Pitch	Length (mm)	Unit
44133	M20 x 2.5	40	10
44134	M20 x 2.5	50	10
44135	M20 x 2.5	60	10
44136	M20 x 2.5	70	10
44137	M20 x 2.5	80	10

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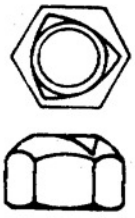
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Metric Hex Head Cap Screw Wrench Selection Chart

- Dimension across the flats varies with Property Class

Diameter	12.9 Bowmetric®	10.9 (ANSI)	8.8 (DIN)
M4	—	M7	M7
M5	M8	M8	M8
M6	M10	M10	M10
M7	—	M11	M11
M8	M13	M13	M13
M10	M16	M16	M17
M12	M18	M18	M19
M14	M21	M21	M22
M16	M24	M24	M24
M18	—	M27	M27
M20	M30	M30	M30

Metric Bowma-Grip® Hex Nuts, All-Metal Prevailing-Torque Type



- Meets ISO property Class 12 specifications
- Performance requirements per ANSI B18.16.1M specifications
- Medium carbon steel
- Multiple heat treated
- Cadmium plated
- Standard thread
- Prevailing torque type
- Prelubricated with wax
- For use with property Class 12.9, 10.9, 9.8,and 8.8 bolts, screws and studs
- Note: For temperature applications up to 400°F only

Part No.	Dia. x Pitch	Unit
41769	M6 x 1.0	50
41771	M8 x 1.25	50
41772	M10 x 1.5	50
41773	M12 x 1.75	50
41774	M14 X 2.00	25
41775	M16 x 2.0	25
41776	M20 x 2.5	10

Non stock items are furnished non plated

Metric Through-Hardened Flat Washers



- Meets to ANSI B18.22M specifications
- Medium carbon steel
- Zinc plated
- For use with 12.9, 10.9, 9.8 and 8.8 property class fasteners

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
C25041	M4	4.3	9	0.80	100
C25042	M5	5.3	10	1.00	100
43981	M6	6.4	12.50	1.6	1 lb.
MP43981	M6	6.4	12.50	1.6	100
C25043	M7	7.4	14	1.6	100
43983	M8	8.4	17	1.6	1 lb.
MP43983	M8	8.4	17	1.6	100
43984	M10	10.5	21	2	1 lb.
MP43984	M10	10.5	21	2	100
43985	M12	13	24	2.50	1 lb.
MP43985	M12	13	24	2.50	50
43986	M14	15	28	2.50	1 lb.
MP43986	M14	15	28	2.50	50
43987	M16	17	30	3	1 lb.
MP43987	M16	17	30	3	25
C90634	M18	19	34	3	10
43989	M20	21	37	3	1 lb.
MP43989	M20	21	37	3	25
43990	M24	25	44	4	1 lb.
MP43990	M24	25	44	4	10

1 lb. — Pieces Conversion

- Approximate number of pieces per pound

Part No.	Pieces
43981	435
43983	150
43984	145
43985	70
43986	58
43987	35
43989	21
43990	15

Metric Lock Washers

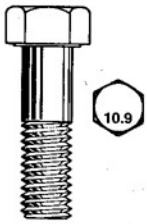


- Meets DIN 127B specifications
- Spring steel
- Heat treated
- Zinc plated
- Non-linking
- For use with 12.9, 10.9 and 8.8 fasteners

Part No.	Bolt Size	Unit
C30990	M3	100
42450	M4	200
MP42450	M4	100
42451	M5	200
MP42451	M5	100
42452	M6	200
MP42452	M6	100
42453	M7	200
MP42453	M7	100
42454	M8	200
MP42454	M8	100
42455	M10	100
MP42455	M10	50
42456	M12	100
MP42456	M12	50
42457	M14	100
MP42457	M14	50
42458-16	M16	100
MP42458-16	M16	50
42458-18	M18	50
42458-20	M20	50
MP42458-20	M20	25
42459-1	M24	50
MP42459-1	M24	25

10.9 Hex Head Cap Screws

Metric 10.9 Hex Head Cap Screws



BOWMAN Unichrome PLATING™

- Manufactured to ANSI B18.2.3.1M specifications
- M10, M12, M14 diameters meet DIN or ANSI specifications for width across flats dimensions
- Medium carbon alloy steel quenched and tempered
- Comparable to SAE Grade 8 (150,000 psi tensile strength)
- Standard Thread
- For use with:
  Bowman Flat Washers 43981 series
  Bowman Lock Washers 42450 series
  Bowman Hex Nuts 44183 series
  Bowma-Grip Nuts 41769 series
  Bowma-Grip Hex Flange Nuts 41781 series

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
44413	M5 x 0.8*	12	8	ANSI	50
44414	M5 x 0.8*	16	8	ANSI	50
44415	M5 x 0.8*	20	8	ANSI	50
44416	M5 x 0.8*	25	8	ANSI	50
44417	M5 x 0.8*	30	8	ANSI	50
44418	M5 x 0.8*	35	8	ANSI	50
44419	M5 x 0.8*	40	8	ANSI	50
44420	M5 x 0.8*	45	8	ANSI	50
44421	M5 x 0.8*	50	8	ANSI	50
44422	M5 x 0.8*	60	8	ANSI	50
44423	M5 x 0.8*	65	8	ANSI	50
44424	M5 x 0.8*	70	8	ANSI	50

Part No.	Dia. x Pitch	Length (mm)	Flats (mm)	ANSI	Unit
44427	M6 x 1.0	12	10	ANSI	50
44427-1	M6 x 1.0	14	10	ANSI	50
44428	M6 x 1.0	16	10	ANSI	50
44429	M6 x 1.0	18	10	ANSI	50
44430	M6 x 1.0	20	10	ANSI	50
44432	M6 x 1.0	25	10	ANSI	25
44434	M6 x 1.0	30	10	ANSI	25
44436	M6 x 1.0	35	10	ANSI	25
44437	M6 x 1.0	40	10	ANSI	25
44438	M6 x 1.0	45	10	ANSI	25

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Part No.	Dia. x Pitch	Length (mm)	Flats (mm)	ANSI	Unit
44439	M6 x 1.0	50	10	ANSI	25
44441	M6 x 1.0	60	10	ANSI	25
44443	M6 x 1.0	70	10	ANSI	25
44444	M6 x 1.0	80	10	ANSI	25
44446	M6 x 1.0	100	10	ANSI	25

Part No.	Dia. x Pitch	Length (mm)	Flats (mm)	DIN/ANSI	Unit
44450-1	M8 x 1.25	12	13	ANSI	50
44451	M8 x 1.25	14	13	ANSI	50
44452	M8 x 1.25	16	13	ANSI	50
44453	M8 x 1.25	18	13	ANSI	50
44454	M8 x 1.25	20	13	ANSI	50
44456	M8 x 1.25	25	13	ANSI	50
44458	M8 x 1.25	30	13	ANSI	25
44460	M8 x 1.25	35	13	ANSI	25
44461	M8 x 1.25	40	13	ANSI	25
MP44461	M8 x 1.25	40	13	ANSI	10
44462	M8 x 1.25	45	13	ANSI	25
MP44462	M8 x 1.25	45	13	ANSI	10
44463	M8 x 1.25	50	13	ANSI	25
MP44463	M8 x 1.25	50	13	ANSI	10
C754278	M8 x 1.25	55	13	ANSI	10
44465	M8 x 1.25	60	13	ANSI	25
MP44465	M8 x 1.25	60	13	ANSI	10
C90397	M8 x 1.25	65	13	ANSI	10
44467	M8 x 1.25	70	13	ANSI	25
MP44467	M8 x 1.25	70	13	ANSI	10
C90399	M8 x 1.25	75	13	ANSI	10
44468	M8 x 1.25	80	13	ANSI	25
MP44468	M8 x 1.25	80	13	ANSI	10
44470	M8 x 1.25	100	13	ANSI	25
MP44470	M8 x 1.25	100	13	ANSI	10

Part No.	Dia. x Pitch	Length (mm)	Flats (mm)	DIN/ANSI	Unit
44475	M10 x 1.5	16	16	ANSI	50
44476	M10 x 1.5	20	16	ANSI	50
44478	M10 x 1.5	25	16	ANSI	50
44480	M10 x 1.5	30	16	ANSI	50
44481	M10 x 1.5	35	16	ANSI	50
44483	M10 x 1.5	40	16	ANSI	25
MP44483	M10 x 1.50	40	16	ANSI	10
44484	M10 x 1.5	45	16	ANSI	25
MP44484	M10 x 1.50	45	16	ANSI	10
44485	M10 x 1.5	50	16	ANSI	25
MP44485	M10 x 1.5	50	16	ANSI	10
44486	M10 x 1.5	55	16	ANSI	25
MP44486	M10 x 1.50	55	16	ANSI	10
44487	M10 x 1.5	60	16	ANSI	25
MP44487	M10 x 1.5	60	16	ANSI	10
44488	M10 x 1.5	65	16	ANSI	25
MP44488	M10 x 1.50	65	16	ANSI	10
44489	M10 x 1.5	70	16	ANSI	25
MP44489	M10 x 1.5	70	16	ANSI	10
44490	M10 x 1.5	75	16	ANSI	25
MP44490	M10 x 1.50	75	16	ANSI	10
44491	M10 x 1.5	80	16	ANSI	25
MP44491	M10 x 1.50	80	16	ANSI	10
44493	M10 x 1.5	90	16	ANSI	25
MP44493	M10 x 1.50	90	16	ANSI	10
44495	M10 x 1.5	100	16	ANSI	25
MP44495	M10 x 1.50	100	16	ANSI	10

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
C90400	M10 x 1.5	16	17	DIN	10
C90401	M10 x 1.5	20	17	DIN	10
C90402	M10 x 1.5	25	17	DIN	10
C90403	M10 x 1.5	30	17	DIN	10
C90404	M10 x 1.5	35	17	DIN	10
C90405	M10 x 1.5	40	17	DIN	10
C90406	M10 x 1.5	45	17	DIN	10
C90407	M10 x 1.5	50	17	DIN	10

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
C90408	M10 x 1.5	55	17	DIN	10
C90409	M10 x 1.5	60	17	DIN	10
C90410	M10 x 1.5	70	17	DIN	10
C90411	M10 x 1.5	75	17	DIN	10
C90412	M10 x 1.5	80	17	DIN	10
C90413	M10 x 1.5	90	17	DIN	10
C90414	M10 x 1.5	100	17	DIN	10

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
44499	M12 x 1.75	20	18	ANSI	25
44501	M12 x 1.75	25	18	ANSI	25
44503	M12 x 1.75	30	18	ANSI	25
44504	M12 x 1.75	35	18	ANSI	25
44505	M12 x 1.75	40	18	ANSI	25
MP44505	M12 x 1.75	40	18	ANSI	10
44506	M12 x 1.75	45	18	ANSI	25
MP44506	M12 x 1.75	45	18	ANSI	10
44507	M12 x 1.75	50	18	ANSI	25
MP44507	M12 x 1.75	50	18	ANSI	10
44508	M12 x 1.75	55	18	ANSI	10
MP44508	M12 x 1.75	55	18	ANSI	5
44509	M12 x 1.75	60	18	ANSI	10
MP44509	M12 x 1.75	60	18	ANSI	5
C26122	M12 x 1.75	65	18	ANSI	5
44511	M12 x 1.75	70	18	ANSI	10
MP44511	M12 x 1.75	70	18	ANSI	5
44513	M12 x 1.75	80	18	ANSI	10
MP44513	M12 x 1.75	80	18	ANSI	5
44515	M12 x 1.75	90	18	ANSI	10
MP44515	M12 x 1.75	90	18	ANSI	5
44517	M12 x 1.75	100	18	ANSI	10
MP44517	M12 x 1.75	100	18	ANSI	5
C26128	M12 x 1.75	110	18	ANSI	5
C26129	M12 x 1.75	120	18	ANSI	5

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
C90415	M12 x 1.75	20	19	DIN	10
C90416	M12 x 1.75	25	19	DIN	10
C90417	M12 x 1.75	30	19	DIN	10
C90418	M12 x 1.75	35	19	DIN	10
C90419	M12 x 1.75	40	19	DIN	10
C90420	M12 x 1.75	45	19	DIN	10
C90421	M12 x 1.75	50	19	DIN	10
C90422	M12 x 1.75	55	19	DIN	5
C90423	M12 x 1.75	60	19	DIN	5
C90424	M12 x 1.75	65	19	DIN	5
C90425	M12 x 1.75	70	19	DIN	5
C90426	M12 x 1.75	75	19	DIN	5
C90427	M12 x 1.75	80	19	DIN	5
C90428	M12 x 1.75	90	19	DIN	5
C90429	M12 x 1.75	100	19	DIN	5
C90430	M12 x 1.75	110	19	DIN	5
C90431	M12 x 1.75	120	19	DIN	5

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
44519	M14 x 2.0	30	21	ANSI	50
MP44519	M14 x 2.0	30	21	ANSI	10
KP77807	M14 X 2.0	35	21	ANSI	10
44520	M14 x 2.0	40	21	ANSI	50
MP44520	M14 x 2.0	40	21	ANSI	10
KP77809	M14 X 2.0	45	21	ANSI	10
44521	M14 x 2.0	50	21	ANSI	25
MP44521	M14 x 2.0	50	21	ANSI	10
44522	M14 x 2.0	60	21	ANSI	25
MP44522	M14 x 2.0	60	21	ANSI	10
44523	M14 x 2.0	70	21	ANSI	25
MP44523	M14 x 2.0	70	21	ANSI	5
44524	M14 x 2.0	80	21	ANSI	25
MP44524	M14 x 2.0	80	21	ANSI	5
KP77816	M14 X 2.0	90	21	ANSI	25

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
KP77817	M14 X 2.0	100	21	ANSI	50
KP77818	M14 X 2.0	110	21	ANSI	10
KP77819	M14 X 2.0	120	21	ANSI	10

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
C90432	M14 x 2.0	25	22	DIN	5
C90433	M14 x 2.0	30	22	DIN	5
C90434	M14 x 2.0	35	22	DIN	5
C90435	M14 x 2.0	40	22	DIN	5
C90436	M14 x 2.0	50	22	DIN	5
C90437	M14 x 2.0	60	22	DIN	5
C90438	M14 x 2.0	70	22	DIN	5
C90439	M14 x 2.0	80	22	DIN	5
C90440	M14 x 2.0	90	22	DIN	5
C90441	M14 x 2.0	100	22	DIN	5
C90442	M14 x 2.0	110	22	DIN	5

Part No.	Dia. x Pitch	Length (mm)	Flat (mm)	DIN/ANSI	Unit
44567	M16 x 2.0	30	24	ANSI	10
MP44567	M16 x 2.0	30	24	ANSI	5
C90444	M16 x 2.0	35	24	ANSI	5
44568	M16 x 2.0	40	24	ANSI	10
MP44568	M16 x 2.0	40	24	ANSI	5
C90446	M16 x 2.0	45	24	ANSI	5
44570	M16 x 2.0	50	24	ANSI	10
MP44570	M16 x 2.0	50	24	ANSI	5
C90448	M16 x 2.0	55	24	ANSI	5
44572	M16 x 2.0	60	24	ANSI	10
MP44572	M16 x 2.0	60	24	ANSI	5
C90450	M16 x 2.0	65	24	ANSI	5
44574	M16 x 2.0	70	24	ANSI	10
MP44574	M16 x 2.0	70	24	ANSI	5
C90452	M16 x 2.0	75	24	ANSI	5
44576	M16 x 2.0	80	24	ANSI	10
MP44576	M16 x 2.0	80	24	ANSI	5
44578	M16 x 2.0	90	24	ANSI	5
44580	M16 x 2.0	100	24	ANSI	5
C90456	M16 x 2.0	110	24	ANSI	5
44582	M16 x 2.0	120	24	ANSI	5
KP79389	M16 x 2.0	130	24	ANSI	10
KP79390	M16 x 2.0	150	24	ANSI	10

Part No.	Dia. x Pitch	Length (mm)	Flats/(mm)	DIN/ANSI	Unit
44630	M20 x 2.5	40	30	ANSI	10
44632	M20 x 2.5	50	30	ANSI	10
MP44632	M20 x 2.5	50	30	ANSI	5
C90478	M20 x 2.5	55	30	ANSI	5
44634	M20 x 2.5	60	30	ANSI	10
MP44634	M20 x 2.5	60	30	ANSI	5
44636	M20 x 2.5	70	30	ANSI	10
MP44636	M20 x 2.5	70	30	ANSI	5
C90482	M20 x 2.5	75	30	ANSI	5
44638	M20 x 2.5	80	30	ANSI	10
44640	M20 x 2.5	90	30	ANSI	5
44642	M20 x 2.5	100	30	ANSI	5
C90486	M20 x 2.5	110	30	ANSI	1
44644	M20 x 2.5	120	30	ANSI	3
C90488	M20 x 2.5	130	30	ANSI	1
44646	M20 x 2.5	140	30	ANSI	3
C90490	M20 x 2.5	150	30	ANSI	1
44648	M20 x 2.5	200	30	ANSI	3

Part No.	Dia. x Pitch	Length (mm)	Flats (mm)	DIN/ANSI	Unit
C90491	M24 x 3.0	40	36	ANSI	1
C90492	M24 x 3.0	50	50	ANSI	1
44660	M24 x 3.0	60	36	ANSI	5
44661	M24 x 3.0	70	36	ANSI	5
C90495	M24 x 3.0	75	36	ANSI	1
44662	M24 x 3.0	80	36	ANSI	5
44663	M24 x 3.0	90	36	ANSI	5
44664	M24 x 3.0	100	36	ANSI	3
44665	M24 x 3.0	110	36	ANSI	3

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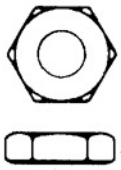
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Part No.	Dia. x Pitch	Length (mm)	Flats (mm)	DIN/ANSI	Unit
44666	M24 x 3.0	120	36	ANSI	3
C90501	M24 x 3.0	130	36	ANSI	1
C90502	M24 x 3.0	140	36	ANSI	1
C90503	M24 x 3.0	150	36	ANSI	1
44669	M24 x 3.0	160	36	ANSI	3
Part No.	**Dia. x Pitch**	**Length (mm)**	**Flats (mm)**	**DIN/ANSI**	**Unit**
44680	M30 x 3.5	60	46	ANSI	5
44681	M30 x 3.5	70	46	ANSI	5
44682	M30 x 3.5	80	46	ANSI	5
44683	M30 x 3.5	90	46	ANSI	5
44684	M30 x 3.5	100	46	ANSI	3
¤44686	M30 x 3.5	120	46	ANSI	10
44687	M30 x 3.5	130	46	ANSI	3
¤44688	M30 x 3.5	140	46	ANSI	10

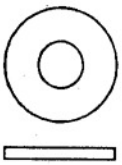
* The M5 diameter is a semi-standard item; therefore, pricing will vary with availability. Non-stock items furnished non-plated.

Metric Class 10 Hex Nuts DIN/ANSI



- Meets DIN 934 and ANSI Specifications
- Medium carbon steel
- Multiple heat treated
- Zinc plated
- Standard thread
- For use with Property Class 10.9, 9.8 and 8.8 bolts, screws and studs

Metric Through-Hardened Flat Washers



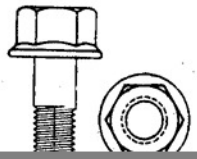
- Meets to ANSI B18.22M specifications
- Medium carbon steel
- Zinc plated
- For use with 12.9, 10.9, 9.8 and 8.8 property class fasteners

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
C25041	M4	4.3	9	0.80	100
C25042	M5	5.3	10	1.00	100
43981	M6	6.4	12.50	1.6	1 lb.
MP43981	M6	6.4	12.50	1.6	100
C25043	M7	7.4	14	1.6	100
43983	M8	8.4	17	1.6	1 lb.
MP43983	M8	8.4	17	1.6	100
43984	M10	10.5	21	2	1 lb.
MP43984	M10	10.5	21	2	100
43985	M12	13	24	2.50	1 lb.
MP43985	M12	13	24	2.50	50
43986	M14	15	28	2.50	1 lb.
MP43986	M14	15	28	2.50	50
43987	M16	17	30	3	1 lb.
MP43987	M16	17	30	3	25
C90634	M18	19	34	3	10
43989	M20	21	37	3	1 lb.
MP43989	M20	21	37	3	25

Part No.	Bolt Size	Unit
C30990	M3	100
42450	M4	200
MP42450	M4	100
42451	M5	200
MP42451	M5	100
42452	M6	200
MP42452	M6	100
42453	M7	200
MP42453	M7	100
42454	M8	200
MP42454	M8	100
42455	M10	100
MP42455	M10	50
42456	M12	100
MP42456	M12	50
42457	M14	100
MP42457	M14	50
42458-16	M16	100
MP42458-16	M16	50
42458-18	M18	50
42458-20	M20	50
MP42458-20	M20	25
42459-1	M24	50
MP42459-1	M24	25

Metric 10.9 Hex Head Flange Bolts

Small Head - JIS Standard



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Part No.	Dia. x Pitch	Length (mm)	Flange Dia. (mm)	Across Flats (mm)	Unit
4565	M8 x 1.25	45	17.5	12	25
MP4565	M8 x 1.25	45	17.5	12	10
4566	M8 x 1.25	50	17.5	12	25
MP4566	M8 x 1.25	50	17.5	12	10
C94878	M8 x 1.25	60	17.5	12	25
C94879	M8 x 1.25	70	17.5	12	25

Part No.	Dia. x Pitch	Length (mm)	Flange Dia. (mm)	Across Flats (mm)	Unit
C94880	M10 x 1.25	16	21	14	25
4570	M10 x 1.25	20	21	14	25
MP4570	M10 x 1.25	20	21	14	10
4571	M10 x 1.25	25	21	14	25
MP4571	M10 x 1.25	25	21	14	10
4572	M10 x 1.25	30	21	14	25
MP4572	M10 x 1.25	30	21	14	10
4573	M10 x 1.25	35	21	14	25
MP4573	M10 x 1.25	35	21	14	10
4574	M10 x 1.25	40	21	14	25
MP4574	M10 x 1.25	40	21	14	10
4575	M10 x 1.25	45	21	14	25
MP4575	M10 x 1.25	45	21	14	10
4576	M10 x 1.25	50	21	14	25
MP4576	M10 x 1.25	50	21	14	10
4577	M10 x 1.25	60	21	14	25
MP4577	M10 x 1.25	60	21	14	10
4578	M10 x 1.25	70	21	14	25
MP4578	M10 x 1.25	70	21	14	10

Metric 10.9 Hex Flange Bolts

Small Head - ANSI Standard



- Class 10.9
- Heat treated alloy steel
- Duraplate finish protects against rust and corrosion
- IFI 536-10.9
- 150,800 P.S.I.
- Small hex across the flats
- For motorcycles, jet skis, boats

Part No.	Dia. x Pitch	Length (mm)	Across Flats (mm)	Unit
KP60611	M6 X 1.00	16	8	25
KP60612	M6 X 1.00	20	8	25
KP60613	M6 X 1.00	25	8	25
KP60614	M6 X 1.00	30	8	25
KP60615	M6 X 1.00	35	8	25
KP60616	M6 X 1.00	40	8	25
KP60617	M6 X 1.00	45	8	25
KP60618	M6 X 1.00	50	8	25

Part No.	Dia. x Pitch	Length (mm)	Across Flats (mm)	Unit
KP60619	M8 X 1.25	16	10	25
KP60620	M8 X 1.25	20	10	25
KP60621	M8 X 1.25	25	10	25
KP60622	M8 X 1.25	30	10	25
KP60623	M8 X 1.25	35	10	25
KP60624	M8 X 1.25	40	10	25
KP60625	M8 X 1.25	50	10	25

Part No.	Dia. x Pitch	Length (mm)	Across Flats (mm)	Unit
KP60626	M10 X 1.50	25	13	25
KP60627	M10 X 1.50	30	13	25
KP60628	M10 X 1.50	35	13	25
KP60629	M10 X 1.50	40	13	25
KP60630	M10 X 1.50	50	13	25

Part No.	Dia. x Pitch	Length (mm)	Across Flats (mm)	Unit
KP60631	M12 X 1.75	30	15	25
KP60632	M12 X 1.75	35	15	25
KP60633	M12 X 1.75	40	15	25
KP60634	M12 X 1.75	50	15	25

Metric Small Head Hex Flange Nuts



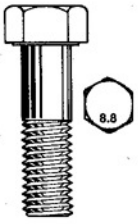
- Property Class 10
- Meets JIS B 1190 specifications
- Zinc plated
- Spin lock type flange

Part No.	Dia. x Pitch	Across Flats (mm)	Flange Dia. (mm)	Unit
CD551114	M4 X 0.70	7	10	100
CD551147	M5 X 0.80	8	11.2	100
4580	M6 x 1.0	10	13	50
4581	M8 x 1.25	12	17	50
4582	M10 x 1.25	14	19	50
CD551418	M12 X 1.75	19	24	25

✦Canada only

8.8 Hex Head Cap Screws

Metric 8.8 Hex Head Cap Screws



- Meets ISO property class 8.8 specifications
- Medium carbon steel
- Multiple heat treated
- Zinc plated
- Standard thread or fine thread
- DIN 931 - partial thread
- DIN 933 - full thread
- For use with Bowman Flat Washers 43981 series, Lock Washers 42450 series, Hex Nuts 44183 series, Bowma-Grip Nuts 41769 series and Bowma-Grip Flange Nuts 41781 series

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
41999-1	M3 x 0.5	933	10	100
¤41999-2	M3 x 0.5	933	12	100
¤41999-3	M3 x 0.5	933	14	100
41999-4	M3 x 0.5	933	16	100
41999-5	M3 x 0.5	933	20	100
¤41999-6	M3 x 0.5	933	25	100
¤41999-7	M3 x 0.5	933	30	100

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
42000	M4 x 0.7	933	8	50
42000-1	M4 x 0.7	933	10	50
42001	M4 x 0.7	933	12	50
42001-1	M4 x 0.7	933	14	50
42002	M4 x 0.7	933	16	50
42004	M4 x 0.7	933	20	50
42005	M4 x 0.7	933	25	50
42006	M4 x 0.7	933	30	50
42006-1	M4 x 0.7	933	35	50
42006-2	M4 x 0.7	933	40	50
42006-3	M4 x 0.7	933	45	50
42006-4	M4 x 0.7	933	50	50

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
42007	M5 x 0.8	933	8	50
42008	M5 x 0.8	933	10	50
42009	M5 x 0.8	933	12	50
¤42009-1	M5 x 0.8	933	14	100
42010	M5 x 0.8	933	16	50
42011	M5 x 0.8	933	20	50
42013	M5 x 0.8	933	25	50
42015	M5 x 0.8	933	30	50
42016	M5 x 0.8	933	35	50
42017	M5 x 0.8	933	40	50
MP42017	M5 x 0.8	933	40	25
42018	M5 x 0.8	933	45	50
42019	M5 x 0.8	933	50	50
42021	M5 x 0.8	931	60	50
42023	M5 x 0.8	931	70	50
✦CD551195	M5 X 0.80	—	80	50

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
42025	M6 x 1.0	933	8	50
42026	M6 x 1.0	933	10	50
42027	M6 x 1.0	933	12	50
42027-14	M6 x 1.0	933	14	50
42028	M6 x 1.0	933	16	50
42029	M6 x 1.0	933	18	50
42030	M6 x 1.0	933	20	50
42032	M6 x 1.0	933	25	50
MP42032	M6 x 1.0	933	25	25
42034	M6 x 1.0	933	30	50
MP42034	M6 x 1.0	933	30	25
42036	M6 x 1.0	933	35	50
MP42036	M6 x 1.0	933	35	25
42037	M6 x 1.0	933	40	50
MP42037	M6 x 1.0	933	40	25
42038	M6 x 1.0	931	45	50
MP42038	M6 x 1.0	931	45	25
42039	M6 x 1.0	931	50	50
MP42039	M6 x 1.0	931	50	25
C30952	M6 x 1.0	931	55	25
42041	M6 x 1.0	931	60	50
MP42041	M6 x 1.0	931	60	25
C30953	M6 x 1.0	931	65	25
42043	M6 x 1.0	931	70	50
MP42043	M6 x 1.0	931	70	25
¤42043-1	M6 x 1.0	931	75	100
42043-2	M6 x 1.0	931	80	25
42044	M6 x 1.0	931	90	25
42044-1	M6 x 1.0	931	100	25

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Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
42045	M7 x 1.0	933	12	50
MP42045	M7 x 1.0	933	12	25
42046	M7 x 1.0	933	16	50
MP42046	M7 x 1.0	933	16	25
42047	M7 x 1.0	933	20	50
MP42047	M7 x 1.0	933	20	25
42047-1	M7 x 1.0	933	25	50
MP42047-1	M7 x 1.0	933	25	25
42048	M7 x 1.0	933	30	50
MP42048	M7 x 1.0	933	30	25
42048-1	M7 x 1.0	933	35	50
MP42048-1	M7 x 1.0	933	35	25
42049	M7 x 1.0	933	40	50
MP42049	M7 x 1.0	933	40	25
42049-1	M7 x 1.0	933	45	50
MP42049-1	M7 x 1.0	933	45	25
42049-2	M7 x 1.0	933	50	50
MP42049-2	M7 x 1.0	933	50	10
C86208	M7 x 1.0	931	60	10
C86209	M7 x 1.0	931	70	10
Part No.	**Dia. x Pitch**	**Thread**	**Length (mm)**	**Unit**
42050	M8 x 1.25	933	10	50
42051	M8 x 1.25	933	12	50
MP42051	M8 x 1.25	933	12	25
42051-14	M8 x 1.25	933	14	50
42052	M8 x 1.25	933	16	50
MP42052	M8 x 1.25	933	16	25
42053	M8 x 1.25	933	18	50
42054	M8 x 1.25	933	20	50
MP42054	M8 x 1.25	933	20	25
42055	M8 x 1.25	933	22	50
42056	M8 x 1.25	933	25	50
MP42056	M8 x 1.25	933	25	25
42058	M8 x 1.25	933	30	50
MP42058	M8 x 1.25	933	30	25
42060	M8 x 1.25	933	35	50
MP42060	M8 x 1.25	933	35	25
42061	M8 x 1.25	933	40	50
MP42061	M8 x 1.25	933	40	25
42062	M8 x 1.25	933	45	50
MP42062	M8 x 1.25	933	45	25
42063	M8 x 1.25	933	50	50
MP42063	M8 x 1.25	933	50	10
42064	M8 x 1.25	931	55	50
42065	M8 x 1.25	931	60	50
MP42065	M8 x 1.25	931	60	10
42066	M8 x 1.25	931	65	50
42067	M8 x 1.25	931	70	50
MP42067	M8 x 1.25	931	70	10
42068	M8 x 1.25	931	75	25
MP42068	M8 x 1.25	931	75	10
42069	M8 x 1.25	931	80	25
42070	M8 x 1.25	931	90	25
42071	M8 x 1.25	931	100	10
42071-1	M8 x 1.25	931	110	25
42072	M8 x 1.25	931	120	10
¤42074	M8 x 1.25	931	140	50
¤42074-2	M8 x 1.25	931	160	100
Part No.	**Dia. x Pitch**	**Thread**	**Length (mm)**	**Unit**
42253	M8 x 1.0	933	10	50
MP42253	M8 x 1.0	933	10	25
KP79552	M8 x 1.0	933	16	25
42258	M8 x 1.0	933	20	50
MP42258	M8 x 1.0	933	20	25
42260	M8 x 1.0	933	25	50
MP42260	M8 x 1.0	933	25	25
42261	M8 x 1.0	933	30	50
MP42261	M8 x 1.0	933	30	25
42262	M8 x 1.0	933	35	50
MP42262	M8 x 1.0	933	35	25
42265	M8 x 1.0	933	40	50
MP42265	M8 x 1.0	933	40	25
KP82047	M8 x 1.0	933	45	25
42267	M8 x 1.0	933	50	50
MP42267	M8 x 1.0	933	50	10
42268	M8 x 1.0	931	60	100
MP42268	M8 x 1.0	933	60	10
¤42269	M8 x 1.0	931	70	100
¤42270	M8 x 1.0	931	80	100
Part No.	**Dia. x Pitch**	**Thread**	**Length (mm)**	**Unit**
42075	M10 x 1.5	933	16	50
MP42075	M10 x 1.5	933	16	25
42076	M10 x 1.5	933	20	50
MP42076	M10 x 1.5	933	20	25
42078	M10 x 1.5	933	25	50
MP42078	M10 x 1.5	933	25	25
42080	M10 x 1.5	933	30	50
MP42080	M10 x 1.5	933	30	25
42081	M10 x 1.5	933	35	50
MP42081	M10 x 1.50	933	35	10
42083	M10 x 1.5	933	40	50
MP42083	M10 x 1.5	933	40	10
42084	M10 x 1.5	931	45	50
MP42084	M10 x 1.50	931	45	10
42085	M10 x 1.5	931	50	50
MP42085	M10 x 1.5	931	50	10
42086	M10 x 1.5	931	55	50
MP42086	M10 x 1.50	931	55	10
42087	M10 x 1.5	931	60	50
MP42087	M10 x 1.5	931	60	10
42088	M10 x 1.5	931	65	50
MP42088	M10 x 1.50	931	65	10
42089	M10 x 1.5	931	70	50
MP42089	M10 x 1.5	931	70	10
42090	M10 x 1.5	931	75	50
MP42090	M10 x 1.50	931	75	10
42091	M10 x 1.5	931	80	25
MP42091	M10 x 1.5	931	80	10
42092	M10 x 1.5	931	85	25
42093	M10 x 1.5	931	90	25
MP42093	M10 x 1.50	931	90	10
42095	M10 x 1.5	931	100	25
MP42095	M10 x 1.50	931	100	10
C86214	M10 X 1.5	931	110	25
42097	M10 x 1.5	931	120	25
MP42097	M10 x 1.50	931	120	10
¤42098	M10 x 1.5	931	140	50
¤42098-1	M10 x 1.5	931	150	50
Part No.	**Dia. x Pitch**	**Thread**	**Length (mm)**	**Unit**
42282	M10 x 1.0	933	20	50
MP42282	M10 x 1.0	933	20	10
42284	M10 x 1.0	933	25	50
MP42284	M10 x 1.0	933	25	10
42286	M10 x 1.0	933	30	50
MP42286	M10 x 1.0	933	30	10
42287	M10 x 1.0	933	35	50
MP42287	M10 x 1.0	933	35	10
42289	M10 x 1.0	933	40	50
MP42289	M10 x 1.0	933	40	10
KP82050	M10 x 1.0	931	45	25
42291	M10 x 1.0	931	50	50
MP42291	M10 x 1.0	931	50	10
KP82051	M10 x 1.0	931	55	25
42293	M10 x 1.0	931	60	50
KP82052	M10 x 1.0	931	70	10
KP82053	M10 x 1.0	931	80	10
KP70043	M12 x 1.75	933	16	25
42099	M12 x 1.75	933	20	50
MP42099	M12 x 1.75	933	20	25
42101	M12 x 1.75	933	25	50
MP42101	M12 x 1.75	933	25	25
42103	M12 x 1.75	933	30	50
MP42103	M12 x 1.75	933	30	25
42104	M12 x 1.75	933	35	50
MP42104	M12 x 1.75	933	35	10
42105	M12 x 1.75	933	40	50
MP42105	M12 x 1.75	933	40	10
42106	M12 x 1.75	933	45	50
MP42106	M12 x 1.75	933	45	10
42107	M12 x 1.75	933	50	25
MP42107	M12 x 1.75	933	50	10
42108	M12 x 1.75	931	55	25
MP42108	M12 x 1.75	931	55	10
42109	M12 x 1.75	931	60	25
MP42109	M12 x 1.75	931	60	10
42110	M12 x 1.75	931	65	25
MP42110	M12 x 1.75	931	65	10
42111	M12 x 1.75	931	70	25
MP42111	M12 x 1.75	931	70	10
42112	M12 x 1.75	931	75	25
MP42112	M12 x 175	931	75	10
42113	M12 x 1.75	931	80	25
MP42113	M12 x 1.75	931	80	10
¤42114	M12 x 1.75	931	85	50
42115	M12 x 1.75	931	90	25
MP42115	M12 x 175	931	90	10
42116	M12 x 1.75	931	100	10
42117	M12 x 1.75	931	110	10
42118	M12 x 1.75	931	120	10
C86221	M12 X 1.75	931	130	5
KP82002	M12 x 1.75	931	140	10
KP82003	M12 x 1.75	931	150	10
¤42122	M12 x 1.75	931	160	25
¤42124	M12 x 1.75	931	180	50
¤42126	M12 x 1.75	931	200	25
¤42127	M12 x 1.75	220	220	25
Part No.	**Dia. x Pitch**	**Thread**	**Length (mm)**	**Unit**
42305	M12 x 1.5	933	20	25
MP42305	M12 x 1.5	933	20	10
42307	M12 x 1.5	933	25	25
MP42307	M12 x 1.5	933	25	10
42309	M12 x 1.5	933	30	25
MP42309	M12 x 1.5	933	30	10
42311	M12 x 1.5	933	35	25
MP42311	M12 x 1.5	933	35	10
42312	M12 x 1.5	933	40	25
MP42312	M12 x 1.5	933	40	10
42314	M12 x 1.5	933	50	25
MP42314	M12 x 1.5	933	50	5
42315	M12 x 1.5	931	55	25
C30961	M12 x 1.5	931	60	5
42317	M12 x 1.5	931	65	25
MP42317	M12 x 1.5	931	65	10
C30962	M12 x 1.5	931	70	5
42319	M12 x 1.5	931	75	25
C30963	M12 x 1.5	931	80	5
42321	M12 x 1.5	931	90	25
42323	M12 x 1.5	931	100	10
Part No.	**Dia. x Pitch**	**Thread**	**Length (mm)**	**Unit**
C92254	M14 x 2.0	933	20	5
42134	M14 x 2.0	933	25	50
MP42134	M14 x 2.0	933	25	5
42135	M14 x 2.0	933	30	50
MP42135	M14 x 2.0	933	30	5
42136	M14 x 2.0	933	35	50

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Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
MP42136	M14 x 2.0	933	35	5
42137	M14 x 2.0	933	40	50
MP42137	M14 x 2.0	933	40	5
C23120	M14 x 2.0	933	45	5
42139	M14 x 2.0	931	50	25
MP42139	M14 x 2.0	931	50	5
C23122	M14 x 2.0	931	55	5
42141	M14 x 2.0	931	60	25
MP42141	M14 x 2.0	931	60	5
42142	M14 x 2.0	931	65	25
42143	M14 x 2.0	931	70	25
MP42143	M14 x 2.0	931	70	5
42144	M14 x 2.0	931	75	25
42145	M14 x 2.0	931	80	25
MP42145	M14 x 2.0	931	80	5
42147	M14 x 2.0	931	90	25
42149	M14 x 2.0	931	100	10
42151	M14 x 2.0	931	110	10
42153	M14 x 2.0	931	120	10
C86224	M14 X 2.0	931	130	5
¤42155	M14 x 2.0	931	140	25
¤42156	M14 x 2.0	931	150	10
¤42157	M14 x 2.0	931	160	10
¤42158	M14 x 2.0	931	180	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤C30964	M14 x 1.5	933	25	5
42327	M14 x 1.5	933	30	50
MP42327	M14 x 1.5	933	30	5
42328	M14 x 1.5	933	35	50
MP42328	M14 x 1.5	933	35	5
42329	M14 x 1.5	933	40	50
MP42329	M14 x 1.5	933	40	5
¤42329-1	M14 x 1.5	933	45	50
C30968	M14 x 1.5	931	50	5
¤C30969	M14 x 1.5	931	55	5
C30970	M14 x 1.5	931	60	5
C30971	M14 x 1.5	931	70	5
42329-6	M14 x 1.5	931	75	50
C30972	M14 x 1.5	931	80	5
C30973	M14 x 1.5	931	90	5
C18949	M14 X 1.5	931	100	5
¤42329-10	M14 x 1.5	931	120	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42164	M16 x 2.0	933	20	50
42165	M16 x 2.0	933	25	25
42166	M16 x 2.0	933	30	25
MP42166	M16 x 2.0	933	30	5
42167	M16 x 2.0	933	35	25
42168	M16 x 2.0	933	40	25
MP42168	M16 x 2.0	933	40	5
42169	M16 x 2.0	933	45	25
42170	M16 x 2.0	931	50	25
MP42170	M16 x 2.0	931	50	5
42171	M16 x 2.0	931	55	25
42172	M16 x 2.0	931	60	25
MP42172	M16 x 2.0	931	60	5
42173	M16 x 2.0	931	65	25
42174	M16 x 2.0	931	70	10
KP75039	M16 x 2.0	931	75	15
42176	M16 x 2.0	931	80	10
¤42177	M16 x 2.0	931	85	25
C86232	M16 x 2.0	931	90	5
42180	M16 x 2.0	931	100	5
C86234	M16 X 2.0	931	110	5
C86235	M16 X 2.0	931	120	5
42183	M16 x 2.0	931	130	5
42184	M16 x 2.0	931	140	5
42185	M16 x 2.0	931	150	5
¤42185-1	M16 x 2.0	931	160	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42186-1	M16 x 2.0	931	180	10
¤42186-2	M16 x 2.0	931	200	25
¤42186-2A	M16 x 2.0	931	220	25
¤42186-2C	M16 x 2.0	931	260	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
KP82030	M16 x 1.5	933	30	10
KP82031	M16 x 1.5	933	35	10
KP82033	M16 x 1.5	931	45	10
C752991	M16 x 1.5	931	50	5
C752992	M16 x 1.5	931	60	5
KP82036	M16 x 1.5	931	70	10
¤42186-2F	M16 x 1.5	931	80	50
¤42186-2G	M16 x 1.5	931	90	50
¤42186-2H	M16 x 1.5	931	100	50

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
42186-3	M18 x 2.5	933	30	5
¤42186-4	M18 x 2.5	933	35	25
42187	M18 x 2.5	933	40	5
¤42187-1	M18 x 2.5	933	45	50
42188	M18 x 2.5	933	50	5
42190	M18 x 2.5	933	60	5
42191	M18 x 2.5	931	65	5
42192	M18 x 2.5	931	70	5
42193	M18 x 2.5	931	75	3
42194	M18 x 2.5	931	80	3
42195	M18 x 2.5	931	90	3
42196	M18 x 2.5	931	100	3
42197	M18 x 2.5	931	110	3
42198	M18 x 2.5	931	120	3
42199	M18 x 2.5	931	130	3

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42202	M18 x 1.5	933	40	50
¤42202-1	M18 x 1.5	933	50	50
¤42202-2	M18 x 1.5	933	60	25
¤42202-3	M18 x 1.5	933	70	25
¤42202-4	M18 x 1.5	933	80	25
¤42202-5	M18 x 1.5	933	100	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42203	M20 x 2.5	933	25	50
42204	M20 x 2.5	933	30	5
¤42204-1	M20 x 2.5	933	35	25
42205	M20 x 2.5	933	40	5
¤42205-1	M20 x 2.5	933	45	50
42206	M20 x 2.5	933	50	5
42207	M20 x 2.5	933	55	5
42208	M20 x 2.5	933	60	5
42209	M20 x 2.5	933	65	5
42210	M20 x 2.5	931	70	5
42211	M20 x 2.5	931	75	5
42212	M20 x 2.5	931	80	5
42213	M20 x 2.5	931	90	5
42214	M20 x 2.5	931	100	3
42215	M20 x 2.5	931	110	3
42216	M20 x 2.5	931	120	3
42217	M20 x 2.5	931	130	3
KP82020	M20 x 2.5	931	140	10
¤42219	M20 x 2.5	931	150	25
¤42220	M20 x 2.5	931	160	10
¤42220-2	M20 x 2.5	931	180	25
¤42223	M20 x 2.5	931	240	25
¤42223-2	M20 x 2.5	931	260	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42223-4	M20 x 1.5	933	40	25
¤42223-5	M20 x 1.5	933	50	25
¤42223-6	M20 x 1.5	933	60	25
¤42223-7	M20 x 1.5	933	70	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42223-8	M20 x 1.5	933	80	25
¤42223-10	M20 x 1.5	933	100	10
¤42223-12	M20 x 1.5	933	120	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42223-17	M22 x 2.5	933	50	25
¤42224	M22 x 2.5	933	60	25
¤42226	M22 x 2.5	931	100	25
¤42227	M22 x 2.5	931	120	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
¤42227-7	M24 x 3.0	933	40	10
KP69792	M24 x 3.0	933	50	10
¤42227-9	M24 x 3.0	933	55	25
42228	M24 x 3.0	933	60	5
42228-1	M24 x 3.0	933	70	5
¤42228-2	M24 x 3.0	933	75	10
42229	M24 x 3.0	931	80	5
42229-1	M24 x 3.0	931	90	5
42230	M24 x 3.0	931	100	3
¤42230-1	M24 x 3.0	931	110	3
¤KP82026	M24 x 3.0	931	120	10
42231-1	M24 x 3.0	931	130	3
42232	M24 x 3.0	931	140	3
¤42232-2	M24 x 3.0	931	160	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
42241	M30 x 3.5	933	70	5
42242	M30 x 3.5	933	80	5
42243	M30 x 3.5	931	90	5
42244	M30 x 3.5	931	100	3
42245	M30 x 3.5	931	110	3
¤42246	M30 x 3.5	931	120	3
¤42251-1	M30 x 3.5	931	200	10
¤42251-3	M30 x 3.5	931	240	10

Non stock items are furnished non-plated.
✦Canada only

Metric 8.8 Hex Head Cap Screws

Canada Only

- Class 8, 116,000 PSI tensile strength
- DIN 933, full thread, coarse
- DIN 931, partial thread, course
- DIN 961, full thread, fine
- DIN 960, partial thread, fine
- Plain finish

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557622	M4 X 0.70	933	10	50
✦CD557623	M4 X 0.70	933	12	50
✦CD557624	M4 X 0.70	933	16	50

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557630	M5 X 0.80	933	10	50
✦CD557631	M5 X 0.80	933	12	50
✦CD557632	M5 X 0.80	933	16	50
✦CD557633	M5 X 0.80	933	20	50
✦CD557634	M5 X 0.80	931	25	50
✦CD557635	M5 X 0.80	931	30	50
✦CD557637	M5 X 0.80	931	40	50

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557642	M6 X 1.00	933	10	25
✦CD557643	M6 X 1.00	933	12	25
✦CD557645	M6 X 1.00	933	16	25
✦CD557647	M6 X 1.00	933	20	25
✦CD557648	M6 X 1.00	933	25	25
✦CD557649	M6 X 1.00	931	30	25
✦CD557650	M6 X 1.00	931	35	25
✦CD557651	M6 X 1.00	931	40	25
✦CD557652	M6 X 1.00	931	45	25

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Continued from previous page

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557653	M6 X 1.00	931	50	25
✦CD557654	M6 X 1.00	931	60	25
✦CD557657	M6 X 1.00	931	80	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557668	M8X 1.25	933	16	25
✦CD557670	M8 X 1.25	933	20	25
✦CD557672	M8 X 1.25	933	25	25
✦CD557673	M8 X 1.25	933	30	25
✦CD557674	M8 X 1.25	931	35	25
✦CD557675	M8 X 1.25	931	40	25
✦CD557676	M8 X 1.25	931	45	25
✦CD557677	M8 X 1.25	931	50	25
✦CD557679	M8 X 1.25	931	60	25
✦CD557681	M8 X 1.25	931	70	25
✦CD557682	M8 X 1.25	931	75	25
✦CD557683	M8 X 1.25	931	80	25
✦CD557684	M8 X 1.25	931	90	10
✦CD557685	M8 X 1.25	931	100	10
✦CD557687	M8 X 1.25	931	120	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557541	M8 X 1.00	961	10	25
✦CD557543	M8 X 1.00	961	20	25
✦CD557545	M8 X 1.00	961	30	25
✦CD557547	M8 X 1.00	960	40	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557690	M10 X 1.50	933	16	25
✦CD557691	M10 X 1.50	933	20	25
✦CD557692	M10 X 1.50	933	25	25
✦CD557693	M10 X 1.50	933	30	25
✦CD557694	M10 X 1.50	933	35	25
✦CD557695	M10 X 1.50	933	40	25
✦CD557696	M10 X 1.50	931	45	25
✦CD557697	M10 X 1.50	931	50	25
✦CD557699	M10 X 1.50	931	60	25
✦CD557701	M10 X 1.50	931	70	25
✦CD557703	M10 X 1.50	931	80	25
✦CD557705	M10 X 1.50	931	100	10
✦CD557707	M10 X 1.50	931	120	10
✦CD557708	M10 X 1.50	931	140	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557592	M10 X 1.00	961	16	25
✦CD557554	M10 X 1.00	961	25	25
✦CD557556	M10 X 1.50	961	30	25
✦CD557551	M10 X 1.25	961	20	25
✦CD557553	M10 X 1.25	961	25	25
✦CD557555	M10 X 1.25	961	30	25
✦CD557557	M10 X 1.25	961	35	25
✦CD557558	M10 X 1.25	960	40	25
✦CD557559	M10 X 1.25	960	50	25
✦CD557564	M10 X 1.25	960	70	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557710	M12 X 1.75	933	20	25
✦CD557711	M12 X 1.75	933	25	25
✦CD557712	M12 X 1.75	933	30	25
✦CD557713	M12 X 1.75	933	35	25
✦CD557714	M12 X 1.75	933	40	25
✦CD557715	M12 X 1.75	931	45	25
✦CD557716	M12 X 1.75	931	50	25
✦CD557718	M12 X 1.75	931	60	25
✦CD557720	M12 X 1.75	931	70	25
✦CD557721	M12 X 1.75	931	75	25
✦CD557722	M12 X 1.75	931	80	25
✦CD557723	M12 X 1.75	931	85	10
✦CD557725	M12 X 1.75	931	100	10
✦CD557726	M12 X 1.75	931	110	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557568	M12 X 1.25	961	25	25
✦CD557570	M12 X 1.25	961	30	25
✦CD557574	M12 X 1.25	961	50	10
✦CD557566	M12 X 1.50	961	20	25
✦CD557569	M12 X 1.50	961	30	25
✦CD557571	M12 X 1.50	961	40	25
✦CD557572	M12 X 1.50	961	45	25
✦CD557573	M12 X 1.50	960	50	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557729	M14 X 2.00	933	30	25
✦CD557730	M14 X 2.00	933	35	25
✦CD557731	M14 X 2.00	933	40	25
✦CD557732	M14 X 2.00	933	45	25
✦CD557733	M14 X 2.00	931	50	25
✦CD557735	M14 X 2.00	931	60	25
✦CD557737	M14 X 2.00	931	70	25
✦CD557739	M14 X 2.00	931	90	10
✦CD557740	M14 X 2.00	931	100	10
✦CD557741	M14 X 2.00	931	110	10
✦CD557742	M14 X 2.00	931	120	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557584	M14 X 1.50	961	30	10
✦CD557585	M14 X 1.50	961	35	10
✦CD557586	M14 X 1.50	961	40	10
✦CD557588	M14 X 1.50	960	50	10
✦CD557591	M14 X 1.50	960	80	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557744	M16 X 2.00	933	30	10
✦CD557745	M16 X 2.00	933	35	10
✦CD557746	M16 X 2.00	933	40	10
✦CD557747	M16 X 2.00	933	50	10
✦CD557748	M16 X 2.00	931	55	10
✦CD557749	M16 X 2.00	931	60	10
✦CD557751	M16 X 2.00	931	70	10
✦CD557753	M16 X 2.00	931	80	10
✦CD557754	M16 X 2.00	931	90	10
✦CD557755	M16 X 2.00	931	100	10
✦CD557756	M16 X 2.00	931	110	10
✦CD557757	M16 X 2.00	931	130	10
✦CD557758	M16 X 2.00	931	150	10

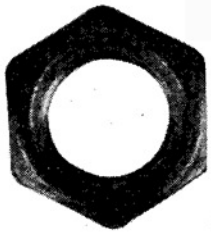
Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD562217	M16 X 1.50	961	40	10
✦CD562222	M16 X 1.50	960	50	10

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
✦CD557759	M20 X 2.50	933	40	10
✦CD557760	M20 X 2.50	933	45	10
✦CD557761	M20 X 2.50	933	50	10
✦CD557763	M20 X 2.50	933	60	10
✦CD557764	M20 X 2.50	931	70	10
✦CD557765	M20 X 2.50	931	80	10
✦CD557766	M20 X 2.50	931	90	10
✦CD557767	M20 X 2.50	931	10	5
✦CD557768	M20 X 2.50	931	120	5

✦Canada only

Metric Hex Nuts - Course - Plain Finish

Canada Only



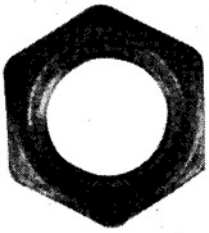
- Class 8
- DIN 934
- For use with Class 8.8 fasteners

Part No.	Dia. (mm)	Thread Pitch	Unit
✦CD557603	4	0.70	100
✦CD557604	5	.080	100
✦CD557605	6	1.00	100
✦CD557606	7	1.00	100
✦CD557607	8	1.25	100
✦CD557608	10	1.50	50
✦CD557609	12	1.75	50
✦CD557610	14	2.00	50
✦CD557611	16	2.00	25
✦CD557613	20	2.50	25
✦CD557614	24	3.00	25

✦Canada only

Metric Hex Nuts - Fine - Plain Finish

Canada Only



- Class 8
- DIN 934
- For use with Class 8.8 fasteners

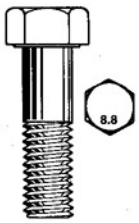
Part No.	Dia. (mm)	Thread Pitch	Unit
✦CD557521	8	1.00	100
✦CD557522	10	1.25	100
✦CD557523	12	1.50	50
✦CD557475	14	1.50	50
✦CD562209	16	1.50	50

✦Canada only

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Metric 8.8 Hex Head Cap Screws

Japanese fine thread pitch



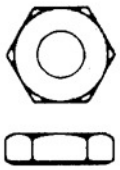
- Medium carbon steel
- For use with:
  Bowman Flat Washers 43981 series
  Bowman Hex Nuts 42415-1 series
- Zinc plated

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
42330	M10 x 1.25	933	20	50
MP42330	M10 x 1.25	933	20	10
42331	M10 x 1.25	933	25	50
MP42331	M10 x 1.25	933	25	10
42332	M10 x 1.25	933	30	50
MP42332	M10 x 1.25	933	30	10
42333	M10 x 1.25	933	35	50
MP42333	M10 x 1.25	933	35	10
42334	M10 x 1.25	933	40	50
MP42334	M10 x 1.25	933	40	10
KP82054	M10 x 1.25	933	45	25
42336	M10 x 1.25	933	50	50
MP42336	M10 x 1.25	933	50	10
¤42337	M10 x 1.25	933	55	100
42338	M10 x 1.25	931	60	50
MP42338	M10 x 1.25	931	60	10
¤C30974	M10 x 1.25	931	65	10
C30975	M10 x 1.25	931	70	10
C30976	M10 x 1.25	931	80	5
C30977	M10 x 1.25	931	90	5
¤C30978	M10 x 1.25	931	100	100

Part No.	Dia. x Pitch	Thread	Length (mm)	Unit
KP78936	M12 x 1.25	933	20	25
42340	M12 x 1.25	933	25	50
MP42340	M12 x 1.25	933	25	10
C30979	M12 x 1.25	933	30	10
42342	M12 x 1.25	933	35	50
MP42342	M12 x 1.25	933	35	10
C86217	M12 x 1.25	933	40	10
¤42344	M12 x 1.25	933	45	50
42345	M12 x 1.25	931	50	25
MP42345	M12 x 1.25	931	50	5
C30980	M12 x 1.25	931	55	5
C30981	M12 x 1.25	931	60	5
¤C30982	M12 x 1.25	931	65	5
C30983	M12 x 1.25	931	70	5
¤C30984	M12 x 1.25	931	75	5
C30985	M12 x 1.25	931	80	5
C30986	M12 x 1.25	931	90	5
¤42350	M12 x 1.25	931	100	50
¤42351	M12 x 1.25	931	120	25

Non-stock items furnished non-plated.

Metric Hex Nuts



- Meets DIN 934 and ISO property class 8 specifications
- Low carbon steel
- Zinc plated
- For use with Property Class 8.8, 5.8 and 4.8 bolts, screws and studs

Standard Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
42430†	M2 x 0.4	5	1.2	100
42431†	M2.5 x 0.45	5	2	100
42432†	M3 x 0.50	5.5	2.4	100
42400	M4 x 0.70	7	3.2	50
42401	M5 x 0.80	8	4	50
42402	M6 x 1.00	10	5	50
42403	M7 x 1.00	11	5.5	50
42404	M8 x 1.25	13	6.5	50
42405	M10 x 1.50	17	8	50
MP42405	M10 x 1.50	17	8	25
42406	M12 x 1.75	19	10	50
MP42406	M12 x 1.75	19	10	25
42407	M14 x 2.00	22	11	25
42408	M16 x 2.00	24	13	25
MP42408	M16 x 2.0	24	13	10
42409-18	M18 x 2.50	27	15	25
MP42409-18	M18 x 2.5	27	15	10
42409-20	M20 x 2.50	30	16	25
MP42409-20	M20 X 2.5	30	16	10
¤42410	M22 x 2.50	32	18	100
42411	M24 x 3.00	36	19	25
42413	M30 x 3.50	46	24	25

† Class 6 Specifications

Fine Pitch

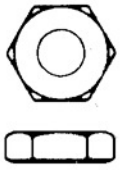
Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
42414	M8 x 1.00	13	6.5	50
C18951	M10 x 1.25	17	8	25
42416	M12 x 1.50	19	10	25
C23356	M14 x 1.50	22	11	25
C762124	M16 x 1.50	24	13	10
KP82790	M20 X 1.5	30	16	50

Extra Fine Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
42415	M10 x 1.00	17	8	50
MP42415	M10 x 1.00	17	8	25
C18954	M12 x 1.25	19	10	25

Metric 8.8 Hex Nuts

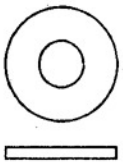
Japanese Fine Thread Pitch



- Medium carbon steel
- For use with 8.8 Japanese hex head cap screws
- Zinc plated

Part No.	Dia. x Pitch	Unit
42415-1	M10 x 1.25	50
42416-1	M12 x 1.25	50

Metric Through-Hardened Flat Washers



- Meets to ANSI B18.22M specifications
- Medium carbon steel
- Zinc plated
- For use with 12.9, 10.9, 9.8 and 8.8 property class fasteners

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
C25041	M4	4.3	9	0.80	100
C25042	M5	5.3	10	1.00	100
43981	M6	6.4	12.50	1.6	1 lb.
MP43981	M6	6.4	12.50	1.6	100
C25043	M7	7.4	14	1.6	100
43983	M8	8.4	17	1.6	1 lb.
MP43983	M8	8.4	17	1.6	100
43984	M10	10.5	21	2	1 lb.
MP43984	M10	10.5	21	2	100
43985	M12	13	24	2.50	1 lb.
MP43985	M12	13	24	2.50	50
43986	M14	15	28	2.50	1 lb.
MP43986	M14	15	28	2.50	50
43987	M16	17	30	3	1 lb.
MP43987	M16	17	30	3	25
C90634	M18	19	34	3	10
43989	M20	21	37	3	1 lb.
MP43989	M20	21	37	3	25
43990	M24	25	44	4	1 lb.
MP43990	M24	25	44	4	10

1 lb. — Pieces Conversion

- Approximate number of pieces per pound

Part No.	Pieces
43981	435
43983	150
43984	145
43985	70
43986	58
43987	35
43989	21
43990	15

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Metric Fasteners

Metric Lock Washers



- Meets DIN 127B specifications
- Spring steel
- Heat treated
- Zinc plated
- Non-linking
- For use with 12.9, 10.9 and 8.8 fasteners

Part No.	Bolt Size	Unit
C30990	M3	100
42450	M4	200
MP42450	M4	100
42451	M5	200
MP42451	M5	100
42452	M6	200
MP42452	M6	100
42453	M7	200
MP42453	M7	100
42454	M8	200
MP42454	M8	100
42455	M10	100
MP42455	M10	50
42456	M12	100
MP42456	M12	50
42457	M14	100
MP42457	M14	50
42458-16	M16	100
MP42458-16	M16	50
42458-18	M18	50
42458-20	M20	50
MP42458-20	M20	25
42459-1	M24	50
MP42459-1	M24	25

8.8 Small Head Cap Screws

Metric 8.8 Small Head Hex Cap Screws



- Meets JIS B1180-7 specifications
- Zinc chromate plated

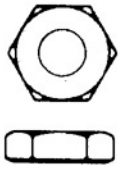
Part No.	Dia. x Pitch	Thread	Length (mm)	Across Flats (mm)	Unit
C87871	M8 x 1.25	933	12	12	50
4501	M8 x 1.25	933	16	12	50
4502	M8 x 1.25	933	20	12	50
4503	M8 x 1.25	933	25	12	50
4504	M8 x 1.25	933	30	12	50
4505	M8 x 1.25	933	35	12	50
4506	M8 x 1.25	933	40	12	50
C87879	M8 x 1.25	933	45	12	50
4508	M8 x 1.25	931	50	12	50
C87881	M8 x 1.25	931	55	12	10
C87882	M8 x 1.25	931	60	12	25
C87884	M8 x 1.25	931	70	12	25
C87886	M8 x 1.25	931	80	12	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Across Flats (mm)	Unit
4520	M10 x 1.25	933	20	14	50
MP4520	M10 x 1.25	933	20	14	25
4521	M10 x 1.25	933	25	14	50
MP4521	M10 x 1.25	933	25	14	25
4522	M10 x 1.25	933	30	14	50
MP4522	M10 x 1.25	933	30	14	25
4523	M10 x 1.25	933	35	14	50
MP4523	M10 x 1.25	933	35	14	25
4524	M10 x 1.25	933	40	14	50
MP4524	M10 x 1.25	933	40	14	25
4525	M10 x 1.25	933	45	14	50
MP4525	M10 x 1.25	933	45	14	25
4526	M10 x 1.25	933	50	14	50
MP4526	M10 x 1.25	933	50	14	25
C87894	M10 x 1.25	933	55	14	10
4528	M10 x 1.25	931	60	14	50
MP4528	M10 x 1.25	931	60	14	25
C87897	M10 x 1.25	931	70	14	25
C87899	M10 x 1.25	931	80	14	25
C87901	M10 x 1.25	931	90	14	25
C87902	M10 x 1.25	931	100	14	25

Part No.	Dia. x Pitch	Thread	Length (mm)	Across Flats (mm)	Unit
4540	M12 x 1.25	933	20	17	50
MP4540	M12 x 1.25	933	20	17	25
4541	M12 x 1.25	933	25	17	50
MP4541	M12 x 1.25	933	25	17	25
4542	M12 x 1.25	933	30	17	50
MP4542	M12 x 1.25	933	30	17	25
4543	M12 x 1.25	933	40	17	50
C87906	M12 x 1.25	933	40	17	25
4544	M12 x 1.25	931	50	17	50
MP4544	M12 x 1.25	931	50	17	25
C87908	M12 x 1.25	931	60	17	25
C87909	M12 x 1.25	931	70	17	10
C87910	M12 x 1.25	931	80	17	10
C87911	M12 x 1.25	931	90	17	10
C87912	M12 x 1.25	931	100	17	10

Metric 8.8 Hex Nuts

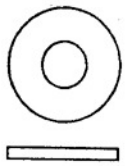
For Japanese Small Head Cap Screws



- Meets JIS B 1181 specifications
- For awkward applications where small diameter hex is needed
- Use with part numbers 4501 through 4547

Part No.	Dia. x Pitch	Across Flats (mm)	Unit
4548	M8 x 1.25	12	100
MP4548	M8 x 1.25	12	50
4549	M10 x 1.25	14	100
MP4549	M10 x 1.25	14	50
4550	M12 x 1.25	17	100
MP4550	M12 x 1.25	17	50

Metric Through-Hardened Flat Washers



- Meets to ANSI B18.22M specifications
- Medium carbon steel
- Zinc plated
- For use with 12.9, 10.9, 9.8 and 8.8 property class fasteners

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
C25041	M4	4.3	9	0.80	100
C25042	M5	5.3	10	1.00	100
43981	M6	6.4	12.50	1.6	1 lb.
MP43981	M6	6.4	12.50	1.6	100
C25043	M7	7.4	14	1.6	100
43983	M8	8.4	17	1.6	1 lb.
MP43983	M8	8.4	17	1.6	100
43984	M10	10.5	21	2	1 lb.
MP43984	M10	10.5	21	2	100
43985	M12	13	24	2.50	1 lb.
MP43985	M12	13	24	2.50	50
43986	M14	15	28	2.50	1 lb.
MP43986	M14	15	28	2.50	50
43987	M16	17	30	3	1 lb.
MP43987	M16	17	30	3	25
C90634	M18	19	34	3	10
43989	M20	21	37	3	1 lb.
MP43989	M20	21	37	3	25
43990	M24	25	44	4	1 lb.
MP43990	M24	25	44	4	10

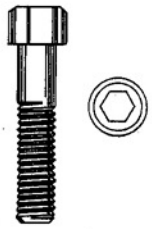
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Socket Screws

Metric 12.9 Socket Head Cap Screws



- Meets ISO 4762 specifications
- Medium carbon alloy steel
- Through-hardened
- 1220 N/mm^2 minimum tensile strength (176,948 psi minimum)
- Non-plated
- Standard thread pitch

Part No.	Dia. x Pitch	Length (mm)	Unit
42704	M3 x 0.5	4	50
42704-1	M3 x 0.5	5	50
42704-2	M3 x 0.5	6	50
42704-3	M3 x 0.5	8	50
42704-4	M3 x 0.5	10	50
42705	M3 x 0.5	12	50
42705-1	M3 x 0.5	14	50
42705-2	M3 x 0.5	16	50
¤42705-3	M3 x 0.5	18	100
42705-4	M3 x 0.5	20	50
42706	M3 x 0.5	25	50
42706-1	M3 x 0.5	30	50
42706-2	M3 x 0.5	35	50
¤42706-3	M3 x 0.5	40	100
¤42706-4	M3 x 0.5	45	100
¤42706-5	M3 x 0.5	50	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
C755049	M4 x 0.7	5	50
42707	M4 x 0.7	6	50
42708	M4 x 0.7	8	50
42709	M4 x 0.7	10	50
42710	M4 x 0.7	12	50
42710-1	M4 x 0.7	14	50
42712	M4 x 0.7	16	50
42712-1	M4 x 0.7	18	50
42713	M4 x 0.7	20	50
42714	M4 x 0.7	25	50
42715	M4 x 0.7	30	50
42716	M4 x 0.7	35	50
42717	M4 x 0.7	40	50
42718	M4 x 0.7	45	50
42718-1	M4 x 0.7	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
42719	M5 x 0.8	8	50
42720	M5 x 0.8	10	50
42721	M5 x 0.8	12	50
42722	M5 x 0.8	14	50
42723	M5 x 0.8	16	50
42723-1	M5 x 0.8	18	50
42724	M5 x 0.8	20	50
42725	M5 x 0.8	25	50
42726	M5 x 0.8	30	50
42727	M5 x 0.8	35	50
42728	M5 x 0.8	40	50
42728-1	M5 x 0.8	45	50
42729	M5 x 0.8	50	50
42729-1	M5 x 0.8	55	50
42729-2	M5 x 0.8	60	50
42729-3	M5 x 0.8	70	50
42729-4	M5 x 0.8	80	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
42730	M6 x 1.0	8	50
42732	M6 x 1.0	10	50
42733	M6 x 1.0	12	50
42734	M6 x 1.0	14	50
42735	M6 x 1.0	16	50
42735-1	M6 x 1.0	18	50
42736	M6 x 1.0	20	50
42738	M6 x 1.0	25	50
42739	M6 x 1.0	30	50
MP42739	M6 x 1.0	30	25
42740	M6 x 1.0	35	50
42741	M6 x 1.0	40	50
MP42741	M6 x 1.0	40	25
42742	M6 x 1.0	45	50
MP42742	M6 x 1.0	45	25
42743	M6 x 1.0	50	50
MP42743	M6 x 1.0	50	25
C90692	M6 x 1.0	55	25
42745	M6 x 1.0	60	50
MP42745	M6 x 1.0	60	25
42745-1	M6 x 1.0	65	50
MP42745-1	M6 x 1.0	65	25
42745-2	M6 x 1.0	70	50
MP42745-2	M6 x 1.0	70	25
42745-7	M6 x 1.0	75	50
MP42745-7	M6 x 1.0	75	25
42745-3	M6 x 1.0	80	25
42745-4	M6 x 1.0	90	25
42745-5	M6 x 1.0	100	25
42745-6	M6 x 1.0	110	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
42746	M8 x 1.25	12	50
MP42746	M8 x 1.25	12	25
42746-1	M8 x 1.25	14	50
42747	M8 x 1.25	16	50
MP42747	M8 x 1.25	16	25
C755258	M8 x 1.25	18	50
42749	M8 x 1.25	20	50
MP42749	M8 x 1.25	20	25
42751	M8 x 1.25	25	50
MP42751	M8 x 1.25	25	25
42752	M8 x 1.25	30	50
MP42752	M8 x 1.25	30	25
42753	M8 x 1.25	35	50
42754	M8 x 1.25	40	50
MP42754	M8 x 1.25	40	25
42755	M8 x 1.25	45	50
MP42755	M8 x 1.25	45	25
42756	M8 x 1.25	50	50
MP42756	M8 x 1.25	50	25
42756-1	M8 x 1.25	55	50
MP42756-1	M8 x 1.25	55	25
42757	M8 x 1.25	60	50
MP42757	M8 x 1.25	60	25
42757-1	M8 x 1.25	65	50
42758	M8 x 1.25	70	50
MP42758	M8 x 1.25	70	25
42758-1	M8 x 1.25	75	50
MP42758-1	M8 x 1.25	75	25
42759	M8 x 1.25	80	50
MP42759	M8 x 1.25	80	25
42759-1	M8 x 1.25	90	25
42759-2	M8 x 1.25	100	25
¤42760-3	M8 x 1.25	140	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤42761-1	M8 x 1.25	160	50
¤42761-2	M8 x 1.25	180	50
¤42761-3	M8 x 1.25	200	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
42762	M10 x 1.5	16	50
42763	M10 x 1.5	20	50
MP42763	M10 x 1.5	20	25
42765	M10 x 1.5	25	50
MP42765	M10 x 1.5	25	25
42766	M10 x 1.5	30	50
MP42766	M10 x 1.5	30	25
42767	M10 x 1.5	35	50
MP42767	M10 x 1.5	35	10
42768	M10 x 1.5	40	50
MP42768	M10 x 1.5	40	10
42769	M10 x 1.5	45	50
42770	M10 x 1.5	50	50
MP42770	M10 x 1.5	50	10
42770-1	M10 x 1.5	55	50
42771	M10 x 1.5	60	50
MP42771	M10 x 1.50	60	10
42771-1	M10 x 1.5	65	50
42772	M10 x 1.5	70	50
MP42772	M10 x 1.50	70	10
42772-1	M10 x 1.5	75	50
42773	M10 x 1.5	80	50
MP42773	M10 x 1.50	80	10
42774	M10 x 1.5	90	25
MP42774	M10 x 1.50	90	10
42774-1	M10 x 1.5	100	25
42775	M10 x 1.5	110	10
42775-1	M10 x 1.5	120	10
¤42776	M10 x 1.5	130	50
¤42776-1	M10 x 1.5	140	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
42779	M12 x 1.75	20	25
MP42779	M12 x 1.75	20	10
42780	M12 x 1.75	25	25
MP42780	M12 x 1.75	25	10
42781	M12 x 1.75	30	25
MP42781	M12 x 1.75	30	10
42782	M12 x 1.75	35	25
42783	M12 x 1.75	40	25
MP42783	M12 x 1.75	40	10
42784	M12 x 1.75	45	25
42785	M12 x 1.75	50	25
MP42785	M12 x 1.75	50	5
42786	M12 x 1.75	55	25
42787	M12 x 1.75	60	25
MP42787	M12 x 1.75	60	5
42787-1	M12 x 1.75	65	25
42788	M12 x 1.75	70	25
MP42788	M12 x 1.75	70	5
42789	M12 x 1.75	75	25
42790	M12 x 1.75	80	25
MP42790	M12 x 1.75	80	5
42791	M12 x 1.75	90	25
42792	M12 x 1.75	100	25
42793	M12 x 1.75	110	10
42793-1	M12 x 1.75	120	10
¤42793-3	M12 x 1.75	140	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
C90699	M14 x 2.0	25	5
42795	M14 x 2.0	30	25
C31003	M14 x 2.0	35	5
42795-1	M14 x 2.0	40	25
✦CD551483	M14 X 2.00	45	25
42795-2	M14 x 2.0	50	25
✦CD551486	M14 X 2.00	55	25

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Metric Fasteners

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Part No.	Dia. x Pitch	Length (mm)	Unit
42795-3	M14 x 2.0	60	25
MP42795-3	M14 x 2.0	60	5
42796	M14 x 2.0	70	25
42796-1	M14 x 2.0	80	25
¤42796-2	M14 x 2.0	90	25
42796-3	M14 x 2.0	100	25
¤42796-4	M14 x 2.0	110	25
¤42796-5	M14 x 2.0	120	25

Part No.	Dia. x Pitch	Length (mm)	Unit
♣CD551501	M16 X 2.00	25	25
C90708	M16 x 2.0	30	5
KP82152	M16 x 2.0	35	10
42797	M16 x 2.0	40	10
KP82154	M16 x 2.0	45	10
♣CD551507	M16 X 2.00	65	25
♣CD551508	M16 X 2.00	75	25
42797-1	M16 x 2.0	50	10
42797-2	M16 x 2.0	60	10
42797-3	M16 x 2.0	70	10
42798	M16 x 2.0	80	10
42798-1	M16 x 2.0	90	10
42798-2	M16 x 2.0	100	10
¤42798-21/2	M16 x 2.0	110	25
42798-3	M16 x 2.0	120	10
¤42798-4	M16 x 2.0	130	25
¤42798-5	M16 x 2.0	140	25

Part No.	Dia. x Pitch	Length (mm)	Unit
¤42798-10	M18 x 2.5	30	50
¤42799	M18 x 2.5	40	25
¤42799-1	M18 x 2.5	50	25
¤42799-2	M18 x 2.5	60	25
¤42799-3	M18 x 2.5	70	25
¤42800	M18 x 2.5	80	25
¤42800-1	M18 x 2.5	90	25
¤42800-2	M18 x 2.5	100	25
¤42800-3	M18 x 2.5	110	25
¤42800-4	M18 x 2.5	120	25
¤42800-5	M18 x 2.5	130	25
¤42800-6	M18 x 2.5	140	25

Part No.	Dia. x Pitch	Length (mm)	Unit
¤42800-8	M20 x 2.5	30	50
42801	M20 x 2.5	40	10
42801-1	M20 x 2.5	50	10
42801-2	M20 x 2.5	60	10
42801-3	M20 x 2.5	70	10
42802	M20 x 2.5	80	10
42802-1	M20 x 2.5	90	5
42802-2	M20 x 2.5	100	5
42802-3	M20 x 2.5	110	5
42803	M20 x 2.5	120	5
¤42803-1	M20 x 2.5	130	25
¤42803-2	M20 x 2.5	140	25
¤42803-3	M20 x 2.5	150	25
¤42803-4	M20 x 2.5	160	25

Part No.	Dia. x Pitch	Length (mm)	Unit
¤42804	M22 x 2.5	60	25
¤42804-1	M22 x 2.5	70	25
¤42804-2	M22 x 2.5	80	25
¤42804-3	M22 x 2.5	90	25
¤42804-4	M22 x 2.5	100	25
¤42805	M22 x 2.5	110	25

Part No.	Dia. x Pitch	Length (mm)	Unit
¤42805-3	M24 x 3.0	40	25
¤42805-4	M24 x 3.0	50	25
42806	M24 x 3.0	60	5
42806-1	M24 x 3.0	70	5
42806-2	M24 x 3.0	80	5

Part No.	Dia. x Pitch	Length (mm)	Unit
42806-3	M24 x 3.0	90	5
42806-4	M24 x 3.0	100	3
42806-5	M24 x 3.0	110	3
42806-6	M24 x 3.0	120	3
42806-7	M24 x 3.0	130	3
¤42806-8	M24 x 3.0	140	10
¤42806-9	M24 x 3.0	150	10
¤42806-12	M24 x 3.0	200	10

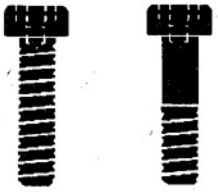
Part No.	Dia. x Pitch	Length (mm)	Unit
42808	M30 x 3.5	60	5
42808-1	M30 x 3.5	70	5
42808-2	M30 x 3.5	80	5
42808-3	M30 x 3.5	90	5
42808-4	M30 x 3.5	100	3
42808-5	M30 x 3.5	110	3
42808-6	M30 x 3.5	120	3
42808-7	M30 x 3.5	130	3

♣Canada only

Metric Socket Head Cap Screw Chart

Bolt Size	Head Dia. (mm)	Head Height (mm)	Key Size (mm)
M4	7.0	4.0	3.0
M5	8.5	5.0	4.0
M6	10.0	6.0	5.0
M8	13.0	8.0	6.0
M10	16.0	10.0	8.0
M12	18.0	12.0	10.0
M14	21.0	14.0	12.0
M16	24.0	16.0	14.0
M20	30.0	20.0	17.0
M24	36.0	24.0	19.0
M30	45.0	30.0	22.0

Metric 8.8 Socket Low Head Cap Screws



- Meets DIN 6912 8.8 specifications
- Non-plated
- Pilot recess

Part No.	Dia. x Pitch	Length (mm)	Unit
44300	M4 x 0.7	10	100
44301	M4 x 0.7	12	100
44302	M4 x 0.7	16	100
44303†	M4 x 0.7	20	100
44304†	M4 x 0.7	25	100

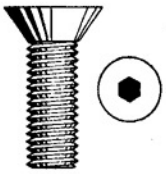
Part No.	Dia. x Pitch	Length (mm)	Unit
44310	M5 x 0.8	10	100
44311	M5 x 0.8	12	100
44312	M5 x 0.8	16	100
44313	M5 x 0.8	20	100
44314†	M5 x 0.8	25	50
44315†	M5 x 0.8	30	50

Part No.	Dia. x Pitch	Length (mm)	Unit
44320	M6 x 1.0	10	50
44321	M6 x 1.0	12	50
44322	M6 x 1.0	16	50
44323	M6 x 1.0	20	50
44324	M6 x 1.0	25	50
44325	M6 x 1.0	30	50
44326	M6 x 1.0	40	25
44327	M6 x 1.0	50	25

Part No.	Dia. x Pitch	Length (mm)	Unit
44330	M8 x 1.25	12	100
44331	M8 x 1.25	16	100
44332	M8 x 1.25	20	100
44333	M8 x 1.25	25	50
44334	M8 x 1.25	30	50
44335	M8 x 1.25	40	50
44336	M8 x 1.25	50	50
44338	M8 x 1.25	80	25

†Partially threaded

Metric 10.9 Socket Flat Head Cap Screws



- Meets DIN 7991 dimensional specifications
- Property class 10.9
- Medium carbon alloy steel quenched and tempered
- Non-plated
- Standard thread

Part No.	Dia. x Pitch	Length (mm)	Unit
KP82185	M3 x 0.5	8	25
KP82186	M3 x 0.5	10	25
KP82187	M3 x 0.5	12	25
KP82188	M3 x 0.5	16	25
KP82189	M3 x 0.5	20	25

Part No.	Dia. x Pitch	Length (mm)	Unit
43127	M4 x 0.7	6	25
43128	M4 x 0.7	8	25
43129	M4 x 0.7	10	25
43130	M4 x 0.7	12	25
43131	M4 x 0.7	16	25
43132	M4 x 0.7	20	25
43133	M4 x 0.7	25	25
43134	M4 x 0.7	30	25
43134-1	M4 x 0.7	35	25
KP88410	M4 x 0.7	40	25
KP88411	M4 x 0.7	50	25

Part No.	Dia. x Pitch	Length (mm)	Unit
43135	M5 x 0.8	8	25
43136	M5 x 0.8	10	25
43137	M5 x 0.8	12	25
43137-1	M5 x 0.8	14	25
43138	M5 x 0.8	16	25
¤43138-1	M5 x 0.8	18	100
43139	M5 x 0.8	20	25
43140	M5 x 0.8	25	25
43141	M5 x 0.8	30	25
43142	M5 x 0.8	35	25
43143	M5 x 0.8	40	25
43143-1	M5 x 0.8	50	25

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Part No.	Dia. x Pitch	Length (mm)	Unit
¤43143-2	M6 x 1.0	8	100
43144	M6 x 1.0	10	25
43145	M6 x 1.0	12	25
43145-1	M6 x 1.0	14	25
43146	M6 x 1.0	16	25
43147	M6 x 1.0	20	25
43148	M6 x 1.0	25	25
43149	M6 x 1.0	30	25
43150	M6 x 1.0	35	25
43151	M6 x 1.0	40	25
43151-1	M6 x 1.0	50	25
43152	M6 x 1.0	60	25
43152-1	M6 x 1.0	70	25

Part No.	Dia. x Pitch	Length (mm)	Unit
43154	M8 x 1.25	12	25
43154-1	M8 x 1.25	14	25
43155	M8 x 1.25	16	25
¤43155-1	M8 x 1.25	18	100
43156	M8 x 1.25	20	25
43157	M8 x 1.25	25	25
43158	M8 x 1.25	30	25
43159	M8 x 1.25	35	25
43160	M8 x 1.25	40	25
¤43161	M8 x 1.25	45	100
43162	M8 x 1.25	50	25
43163	M8 x 1.25	60	25
43164	M8 x 1.25	70	25
43164-1	M8 x 1.25	80	25

Part No.	Dia. x Pitch	Length (mm)	Unit
43165	M10 x 1.5	16	25
43166	M10 x 1.5	20	25
43167	M10 x 1.5	25	25
43168	M10 x 1.5	30	25
43169	M10 x 1.5	35	25
43170	M10 x 1.5	40	25
¤43171	M10 x 1.5	45	100
43172	M10 x 1.5	50	25
43173	M10 x 1.5	60	25
43173-1	M10 x 1.5	70	25
43174	M10 x 1.5	80	25

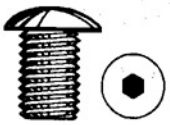
Part No.	Dia. x Pitch	Length (mm)	Unit
43175	M12 x 1.75	20	10
43176	M12 x 1.75	25	10
43177	M12 x 1.75	30	10
43178	M12 x 1.75	35	10
43179	M12 x 1.75	40	10
43180	M12 x 1.75	45	10
43181	M12 x 1.75	50	10
¤43181-1	M12 x 1.75	60	50
¤43181-2	M12 x 1.75	70	50
¤43181-3	M12 x 1.75	80	50
¤43181-4	M12 x 1.75	90	50
¤43181-5	M12 x 1.75	100	50

Part No.	Dia. x Pitch	Length (mm)	Unit
43182	M14 x 2.0	30	10
¤43182-1	M14 x 2.0	40	10
43182-2	M14 x 2.0	50	10
43183	M14 x 2.0	60	10
43183-1	M14 x 2.0	70	10
43183-2	M14 x 2.0	80	10

Part No.	Dia. x Pitch	Length (mm)	Unit
¤43184-2	M16 x 2.0	30	50
KP82249	M16 x 2.0	35	10
43185	M16 x 2.0	40	10
43185-1	M16 x 2.0	50	10
43185-2	M16 x 2.0	60	10
43186	M16 x 2.0	70	10
43186-1	M16 x 2.0	80	10
¤43186-2	M16 x 2.0	90	25
43187	M16 x 2.0	100	10

Part No.	Dia. x Pitch	Length (mm)	Unit
43188	M20 x 2.5	40	10
43188-1	M20 x 2.5	50	10
43188-2	M20 x 2.5	60	10
43189	M20 x 2.5	70	10
¤43189-2	M20 x 2.5	90	25

Metric 10.9 Socket Button Head Cap Screws



- Meets ISO 7380 specifications
- Property class 10.9
- Medium carbon alloy steel - quenched and tempered
- Non-plated
- Standard thread

Part No.	Dia. x Pitch	Length (mm)	Unit
KP82293	M3 x 0.50	6	25
KP82294	M3 x 0.50	8	25
KP82295	M3 x 0.50	10	25
KP82296	M3 x 0.50	12	25

Part No.	Dia. x Pitch	Length (mm)	Unit
41906	M4 x 0.7	6	25
41907	M4 x 0.7	8	25
41908	M4 x 0.7	10	25
41909	M4 x 0.7	12	25
41910	M4 x 0.7	16	25
41911	M4 x 0.7	20	25
41912	M4 x 0.7	25	25

Part No.	Dia. x Pitch	Length (mm)	Unit
41914-1	M5 x 0.8	8	25
41915	M5 x 0.8	10	25
41916	M5 x 0.8	12	25
41916-1	M5 x 0.8	14	25
41917	M5 x 0.8	16	25
41918	M5 x 0.8	20	25
41919	M5 x 0.8	25	25
41920	M5 x 0.8	30	25

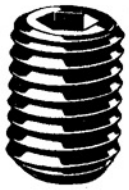
Part No.	Dia. x Pitch	Length (mm)	Unit
41925	M6 x 1.0	10	25
41926	M6 x 1.0	12	25
41926-1	M6 x 1.0	14	25
41927	M6 x 1.0	16	25
41928	M6 x 1.0	20	25
41929	M6 x 1.0	25	25
41930	M6 x 1.0	30	25

Part No.	Dia. x Pitch	Length (mm)	Unit
41935	M8 x 1.25	10	25
41936	M8 x 1.25	12	25
41936-1	M8 x 1.25	14	25
41937	M8 x 1.25	16	25
41938	M8 x 1.25	20	25
41939	M8 x 1.25	25	25
41940	M8 x 1.25	30	25
41941	M8 x 1.25	35	25
41942	M8 x 1.25	40	25

Part No.	Dia. x Pitch	Length (mm)	Unit
41945	M10 x 1.5	16	25
41946	M10 x 1.5	20	25
41947	M10 x 1.5	25	25
41948	M10 x 1.5	30	25
41949	M10 x 1.5	35	25
41950	M10 x 1.5	40	25

Part No.	Dia. x Pitch	Length (mm)	Unit
41955	M12 x 1.75	20	10
41960	M12 x 1.75	25	10
41961	M12 x 1.75	30	10
41962	M12 x 1.75	35	10
41963	M12 x 1.75	40	10
41964	M12 x 1.75	45	10
41965	M12 x 1.75	50	10

Metric 12.9 Socket Set Screws



- Meets ANSI B18.3.6M dimensional specifications
- Property class 45H
- Alloy steel
- Black oxide finish
- Cup point
- Standard thread

Part No.	Dia. x Pitch	Length (mm)	Unit
¤42899	M3 x 0.5	3	100
¤42900	M3 x 0.5	4	100
¤42901	M3 x 0.5	5	100
¤42902	M3 x 0.5	6	100
¤42903	M3 x 0.5	8	100
¤42904	M3 x 0.5	10	100
¤42905	M3 x 0.5	12	100
¤42906	M3 x 0.5	16	100
¤42907	M3 x 0.5	20	100

Part No.	Dia. x Pitch	Length (mm)	Unit
42909	M4 x 0.7	4	50
42910	M4 x 0.7	5	50
42911	M4 x 0.7	6	50
42912	M4 x 0.7	8	50
42913	M4 x 0.7	10	50
42914	M4 x 0.7	12	50
42915	M4 x 0.7	14	50
¤42916	M4 x 0.7	16	100
¤42916-1	M4 x 0.7	20	100
¤42917	M4 x 0.7	25	100
¤42917-1	M4 x 0.7	30	100

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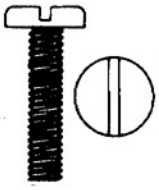
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Part No.	Dia. x Pitch	Length (mm)	Unit
C85064	M4 x 0.7	12	100
C85065	M4 x 0.7	16	100
43604	M4 x 0.7	20	50
43605	M4 x 0.7	25	50
43606	M4 x 0.7	30	50
43608	M4 x 0.7	40	50
43610	M4 x 0.7	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43616	M5 x 0.8	8	50
43617	M5 x 0.8	10	50
43618	M5 x 0.8	12	50
43619	M5 x 0.8	16	50
43621	M5 x 0.8	20	50
43622	M5 x 0.8	25	50
43623	M5 x 0.8	30	50
43625	M5 x 0.8	40	50
43627	M5 x 0.8	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43631	M6 x 1.0	10	50
43632	M6 x 1.0	12	50
43633	M6 x 1.0	16	50
43634	M6 x 1.0	20	50
43635	M6 x 1.0	25	50
43636	M6 x 1.0	30	50
43637	M6 x 1.0	35	50
43638	M6 x 1.0	40	50
¤43639	M6 x 1.0	45	50
43640	M6 x 1.0	50	50
¤43641	M6 x 1.0	60	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤C90601	M8 x 1.25	12	25
¤C85078	M8 x 1.25	16	25
43645	M8 x 1.25	20	25
43646	M8 x 1.25	25	25
43647	M8 x 1.25	30	25
43649	M8 x 1.25	40	25
43651	M8 x 1.25	50	25

Metric Machine Screws

Slotted Cheese Head



- Meets DIN 84A specifications
- Property class 4.8
- Steel
- Zinc plated
- Standard thread
- For use with: Bowman flat washers 42460 series, hex lock nuts 41749 series, hex nuts 42430 series

Part No.	Dia. x Pitch	Length (mm)	Unit
¤43198	M2 x 0.4	3	100
¤43198-1	M2 x 0.4	4	100
¤43198-2	M2 x 0.4	5	100
¤43198-4	M2 x 0.4	8	100
¤43198-5	M2 x 0.4	10	100
¤43198-6	M2 x 0.4	12	100
¤43198-8	M2 x 0.4	20	100

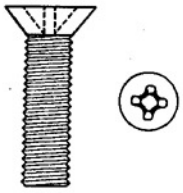
Part No.	Dia. x Pitch	Length (mm)	Unit
¤43200	M3 x 0.5	4	100
¤43201	M3 x 0.5	5	100
43202	M3 x 0.5	6	50
43203	M3 x 0.5	8	50
43204	M3 x 0.5	10	50
43205	M3 x 0.5	12	50
¤43206	M3 x 0.5	16	100
43208	M3 x 0.5	20	50
43209	M3 x 0.5	22	50
¤43210	M3 x 0.5	25	100
¤43211	M3 x 0.5	30	100
¤43212	M3 x 0.5	35	100
¤43213	M3 x 0.5	40	100
¤43214	M3 x 0.5	50	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43222	M4 x 0.7	5	50
43223	M4 x 0.7	6	50
43224	M4 x 0.7	8	50
43225	M4 x 0.7	10	50
43226	M4 x 0.7	12	50
43227	M4 x 0.7	16	50
43229	M4 x 0.7	20	50
43231	M4 x 0.7	25	50
43233	M4 x 0.7	30	50
43234	M4 x 0.7	35	50
43235	M4 x 0.7	40	50
43236	M4 x 0.7	45	50
43237	M4 x 0.7	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤43238	M5 x 0.8	6	200
43239	M5 x 0.8	8	50
43240	M5 x 0.8	10	50
43241	M5 x 0.8	12	50
43242	M5 x 0.8	16	50
43243	M5 x 0.8	18	50
43244	M5 x 0.8	20	50
¤43245	M5 x 0.8	25	100
43248	M5 x 0.8	30	50
43249	M5 x 0.8	35	50
C31042	M5 x 0.8	40	50
¤43251	M5 x 0.8	45	200
¤43252	M5 x 0.8	50	200
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43254	M6 x 1.0	8	50
43255	M6 x 1.0	10	50
43256	M6 x 1.0	12	50
43257	M6 x 1.0	16	50
43258	M6 x 1.0	18	50
43259	M6 x 1.0	20	50
43261	M6 x 1.0	25	50
43263	M6 x 1.0	30	50
43264	M6 x 1.0	35	50
43265	M6 x 1.0	40	50
43266	M6 x 1.0	45	50
43267	M6 x 1.0	50	50
43269	M6 x 1.0	60	50
¤43270	M6 x 1.0	70	200
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤43273	M8 x 1.25	16	100
43274	M8 x 1.25	20	25
43276	M8 x 1.25	25	25
C84281	M8 x 1.25	30	25
¤C84282	M8 x 1.25	35	100
C84283	M8 x 1.25	40	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤43295	M10 x 1.5	40	100

Non-stock items furnished non-plated.

Note: These items are furnished non-plated.

Metric Machine Screws

Phillips Flat Head



- Meets DIN965 specifications
- Property class 4.8
- Steel
- Non-plated
- Standard thread
- For use with: Bowman flat washers 42460 series, hex stop nuts 41749 series, hex nuts 42430 series

Part No.	Dia. x Pitch	Length (mm)	ISD Unit
¤43800	M2 x 0.4	4	100
¤43801	M2 x 0.4	5	100
¤43802	M2 x 0.4	6	100
¤43803	M2 x 0.4	8	100
¤43804	M2 x 0.4	10	100
¤43807	M2 x 0.4	20	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**ISD Unit**
¤43810	M2.5 x 0.45	5	100
¤43811	M2.5 x 0.45	6	100
¤43812	M2.5 x 0.45	8	100
¤43813	M2.5 x 0.45	10	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**ISD Unit**
¤43820	M3 x 0.5	6	100
¤43821	M3 x 0.5	8	100
¤43822	M3 x 0.5	10	100
¤43823	M3 x 0.5	12	100
¤43824	M3 x 0.5	16	100
¤43825	M3 x 0.5	20	100
¤43826	M3 x 0.5	25	100
¤43827	M3 x 0.5	30	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**ISD Unit**
¤43830	M4 x 0.7	6	100
¤43831	M4 x 0.7	8	100
¤43832	M4 x 0.7	10	100
¤43833	M4 x 0.7	12	100
¤43834	M4 x 0.7	16	100
¤43835	M4 x 0.7	20	100
¤43836	M4 x 0.7	25	100
¤43837	M4 x 0.7	30	100
¤43838	M4 x 0.7	35	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**ISD Unit**
¤43840	M5 x 0.8	8	100
¤43841	M5 x 0.8	10	100
¤43842	M5 x 0.8	12	100
¤43843	M5 x 0.8	16	100
¤43844	M5 x 0.8	20	100
¤43845	M5 x 0.8	25	100
¤43846	M5 x 0.8	30	100
¤43848	M5 x 0.8	40	100

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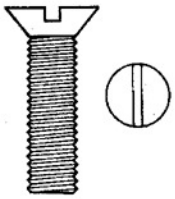
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Part No.	Dia. x Pitch	Length (mm)	ISD Unit
¤43860	M6 x 1.0	10	100
¤43861	M6 x 1.0	12	100
¤43862	M6 x 1.0	16	100
¤43863	M6 x 1.0	20	100
¤43864	M6 x 1.0	25	100
¤43867	M6 x 1.0	40	100
¤43868	M6 x 1.0	45	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**ISD Unit**
¤43880	M8 x 1.25	16	100
¤43881	M8 x 1.25	20	100
¤43882	M8 x 1.25	25	100
¤43883	M8 x 1.25	30	100
¤43884	M8 x 1.25	35	100
¤43885	M8 x 1.25	40	100
¤43886	M8 x 1.25	45	100

Metric Machine Screws

Slotted Flat Head



- Meets DIN 963 specifications
- Property class 4.8
- Steel
- Zinc plated
- Standard thread
- For use with: Bowman flat washers 42460 series, hex stop nuts 41749 series, hex nuts 42430 series

Part No.	Dia. x Pitch	Length (mm)	Unit
¤43307-1	M2 x 0.4	4	100
¤43307-3	M2 x 0.4	6	100
¤43307-9	M2 x 0.4	20	200
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤43308	M3 x 0.5	4	100
¤43308-1	M3 x 0.5	5	100
¤43308-2	M3 x 0.5	6	100
¤43308-3	M3 x 0.5	8	100
¤43308-4	M3 x 0.5	10	100
¤43308-5	M3 x 0.5	12	200
¤43308-6	M3 x 0.5	14	100
¤43308-7	M3 x 0.5	16	100
¤43308-8	M3 x 0.5	20	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
C84628	M4 x 0.7	5	100
43309	M4 x 0.7	6	50
43310	M4 x 0.7	8	50
43311	M4 x 0.7	10	50
43312	M4 x 0.7	12	50
43313	M4 x 0.7	14	50
43314	M4 x 0.7	16	50
43315	M4 x 0.7	20	50
¤43316	M4 x 0.7	30	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤43318	M5 x 0.8	6	100
C84635	M5 x 0.8	8	100
43319	M5 x 0.8	10	50
43320	M5 x 0.8	12	50
43321	M5 x 0.8	14	50
43322	M5 x 0.8	16	50
43323	M5 x 0.8	20	50

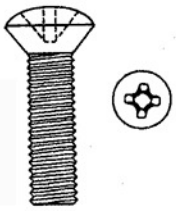
Part No.	Dia. x Pitch	Length (mm)	Unit
43324	M5 x 0.8	25	50
43325	M5 x 0.8	30	50
¤43325-2	M5 x 0.8	40	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
C84640	M6 x 1.0	8	100
43327	M6 x 1.0	10	50
43328	M6 x 1.0	12	50
¤43329	M6 x 1.0	14	100
43330	M6 x 1.0	16	50
43331	M6 x 1.0	20	50
43332	M6 x 1.0	25	50
43333	M6 x 1.0	30	50
¤43334-2	M6 x 1.0	60	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43335	M8 x 1.25	10	25
43336	M8 x 1.25	12	25
¤43337	M8 x 1.25	14	25
¤C84648	M8 x 1.25	16	100
¤43338	M8 x 1.25	19	25
¤43339	M8 x 1.25	20	25
¤43340	M8 x 1.25	25	25
¤43342	M8 x 1.25	35	25
¤43342-2	M8 x 1.25	45	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
¤43345	M10 x 1.5	16	100
¤43346	M10 x 1.5	19	100
43347	M10 x 1.5	20	25
¤43348	M10 x 1.5	25	100
¤43349	M10 x 1.5	30	100

Non-stock items furnished non-plated.

Note: These items are furnished non-plated.

Metric Machine Screws

Phillips Oval head



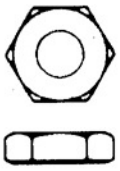
- Meets DIN 966 specifications
- Property class 4.8
- Steel
- Zinc plated
- Standard thread
- For use with: Bowman flat washers 42460 series, hex stop nuts 41749 series, hex nuts 42430 series

Part No.	Dia. x Pitch	Length (mm)	Unit
43665	M3 x 0.5	6	50
43666	M3 x 0.5	8	50
43667	M3 x 0.5	10	50
43669	M3 x 0.5	16	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43681	M4 x 0.7	6	50
43682	M4 x 0.7	8	50
43683	M4 x 0.7	10	50
C85665	M4 x 0.7	12	100
43685	M4 x 0.7	16	50
43687	M4 x 0.7	20	50
43688	M4 x 0.7	25	50
43689	M4 x 0.7	30	50
43691	M4 x 0.7	40	50

Part No.	Dia. x Pitch	Length (mm)	Unit
43696	M5 x 0.8	8	50
43697	M5 x 0.8	10	50
C85670	M5 x 0.8	12	100
C85671	M5 x 0.8	16	100
43701	M5 x 0.8	20	50
43702	M5 x 0.8	25	50
43703	M5 x 0.8	30	50
43705	M5 x 0.8	40	50
43707	M5 x 0.8	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43711	M6 x 1.0	10	50
43712	M6 x 1.0	12	50
43713	M6 x 1.0	16	50
43714	M6 x 1.0	20	50
43715	M6 x 1.0	25	50
43716	M6 x 1.0	30	50
43717	M6 x 1.0	35	50
43718	M6 x 1.0	40	50
¤43720	M6 x 1.0	50	50
¤43721	M6 x 1.0	60	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
43726	M8 x 1.25	16	25
43728	M8 x 1.25	20	25
C85682	M8 x 1.25	25	25
43730	M8 x 1.25	30	25
C85684	M8 x 1.25	40	25

Hex Nuts

Metric Class 10 Hex Nuts DIN/ANSI



- Meets DIN 934 and ANSI Specifications
- Medium carbon steel
- Multiple heat treated
- Zinc plated
- Standard thread
- For use with Property Class 10.9, 9.8 and 8.8 bolts, screws and studs

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
44183	M4 x 7.0	7	2.2	50
44185	M6 x 1.00	10	5	50
44187	M8 x 1.25	13	6.5	50
44188	M10 x 1.50	17	8	50
MP44188	M10 x 1.5	17	8	25
44197	M10 x 1.50	16 ANSI	8.4	50
44189	M12 x 1.75	19	10	50
MP44189	M12 x 1.75	19	10	10

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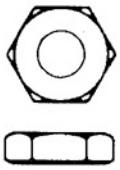
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Continued from previous page

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
44198	M12 x 1.75	18 ANSI	10	50
44190	M14 x 2.00	22	11	25
MP44190	M14 x 2.0	22	11	10
44191	M16 x 2.00	24	13	25
MP44191	M16 x 2.00	24	13	10
44192	M18 x 2.50	27	15	25
MP44192	M18 x 2.5	27	15	10
44193	M20 x 2.50	30	16	25
MP44193	M20 x 2.50	30	16	10
¤44193-1	M22 x 2.50	32	18	25
44194	M24 x 3.00	36	19	25
MP44194	M24 x 3.00	36	19	10
44196	M30 x 3.50	46	24	25
MP44196	M30 x 3.5	46	24	5

Metric Property Class 10 Hex Nuts



- Meets DIN 970 and ANSI B18.2.4.1M Style 1 specifications
- To be used with property class 10.9 cap screws
- Non-plated - BN41115

Part No.	Dia. x Pitch	Unit
¤43123-1	M27 x 3.00	10
¤43124-1	M36 x 4.00	10

Metric Small Head Hex Flange Nuts

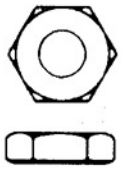


- Property Class 10
- Meets JIS B 1190 specifications
- Zinc plated
- Spin lock type flange

Part No.	Dia. x Pitch	Across Flats (mm)	Flange Dia. (mm)	Unit
CD551114	M4 X 0.70	7	10	100
CD551147	M5 X 0.80	8	11.2	100
4580	M6 x 1.0	10	13	50
4581	M8 x 1.25	12	17	50
4582	M10 x 1.25	14	19	50
CD551418	M12 X 1.75	19	24	25

✦Canada only

Metric Hex Nuts



- Meets DIN 934 and ISO property class 8 specifications
- Low carbon steel
- Zinc plated
- For use with Property Class 8.8, 5.8 and 4.8 bolts, screws and studs

Standard Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
42430†	M2 x 0.4	5	1.2	100
42431†	M2.5 x 0.45	5	2	100
42432†	M3 x 0.50	5.5	2.4	100
42400	M4 x 0.70	7	3.2	50
42401	M5 x 0.80	8	4	50
42402	M6 x 1.00	10	5	50
42403	M7 x 1.00	11	5.5	50
42404	M8 x 1.25	13	6.5	50
42405	M10 x 1.50	17	8	50
MP42405	M10 x 1.50	17	8	25
42406	M12 x 1.75	19	10	50
MP42406	M12 x 1.75	19	10	25
42407	M14 x 2.00	22	11	25
42408	M16 x 2.00	24	13	25
MP42408	M16 x 2.0	24	13	10
42409-18	M18 x 2.50	27	15	25
MP42409-18	M18 x 2.5	27	15	10
42409-20	M20 x 2.50	30	16	25
MP42409-20	M20 X 2.5	30	16	10
¤42410	M22 x 2.50	32	18	100
42411	M24 x 3.00	36	19	25
42413	M30 x 3.50	46	24	25

† Class 6 Specifications

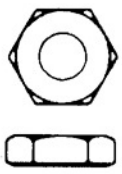
Fine Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
42414	M8 x 1.00	13	6.5	50
C18951	M10 x 1.25	17	8	25
42416	M12 x 1.50	19	10	25
C23356	M14 x 1.50	22	11	25
C762124	M16 x 1.50	24	13	10
KP82790	M20 X 1.5	30	16	50

Extra Fine Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
42415	M10 x 1.00	17	8	50
MP42415	M10 x 1.00	17	8	25
C18954	M12 x 1.25	19	10	25

Metric 8.8 Hex Nuts

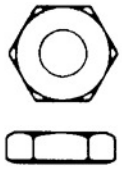


- To be used with property class 8.8 cap screws
- Non-plated

Part No.	Dia. x Pitch	Unit
¤42420	M8 x 1.00	100
¤42420-1	M10 x 1.25	100
¤42420-2	M10 x 1.00	100
¤42421	M12 x 1.50	100
¤42421-1	M12 x 1.25	100
¤42422	M14 x 1.50	50
¤42423	M18 x 1.50	50
¤42423-1	M20 x 1.50	50
¤42425	M22 x 1.50	50
¤42427	M30 x 3.50	10
¤42428-1	M36 x 4.00	10

Metric 8.8 Hex Nuts

Japanese Fine Thread Pitch

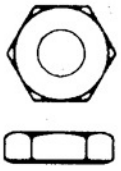


- Medium carbon steel
- For use with 8.8 Japanese hex head cap screws
- Zinc plated

Part No.	Dia. x Pitch	Unit
42415-1	M10 x 1.25	50
42416-1	M12 x 1.25	50

Metric 8.8 Hex Nuts

For Japanese Small Head Cap Screws



- Meets JIS B 1181 specifications
- For awkward applications where small diameter hex is needed
- Use with part numbers 4501 through 4547

Part No.	Dia. x Pitch	Across Flats (mm)	Unit
4548	M8 x 1.25	12	100
MP4548	M8 x 1.25	12	50
4549	M10 x 1.25	14	100
MP4549	M10 x 1.25	14	50
4550	M12 x 1.25	17	100
MP4550	M12 x 1.25	17	50

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Metric Jam Nuts



- Meets DIN 439 B Part 2 dimensional specifications
- Low carbon steel
- Standard thread
- Zinc plated

Standard Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
43000	M4 x 0.7	7	2.2	50
43001	M5 x 0.8	8	2.7	50
43002	M6 x 1.0	10	3.2	50
43003	M8 x 1.25	13	4	50
43004	M10 x 1.5	17	6	50
43006	M12 x 1.75	19	7	50
43007	M14 x 2.0	22	8	50
43008	M16 x 2.0	24	8	25
¤43009	M18 x 2.5	27	9	50

Fine Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
C92312	M8 x 1.00	13	4	50
43005	M10 x 1.25	17	6	50
C18956	M12 x 1.50	19	7	25
C18957	M14 x 1.50	22	8	25

Extra Fine Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
C18955	M10 x 1.00	17	6	25

Metric Hex Nuts - Course - Plain Finish

Canada Only



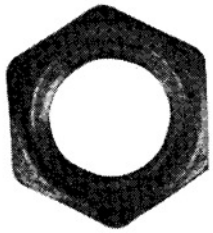
- Class 8
- DIN 934
- For use with Class 8.8 fasteners

Part No.	Dia. (mm)	Thread Pitch	Unit
✦CD557603	4	0.70	100
✦CD557604	5	.080	100
✦CD557605	6	1.00	100
✦CD557606	7	1.00	100
✦CD557607	8	1.25	100
✦CD557608	10	1.50	50
✦CD557609	12	1.75	50
✦CD557610	14	2.00	50
✦CD557611	16	2.00	25
✦CD557613	20	2.50	25
✦CD557614	24	3.00	25

✦Canada only

Metric Hex Nuts - Fine - Plain Finish

Canada Only

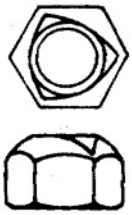


- Class 8
- DIN 934
- For use with Class 8.8 fasteners

Part No.	Dia. (mm)	Thread Pitch	Unit
✦CD557521	8	1.00	100
✦CD557522	10	1.25	100
✦CD557523	12	1.50	50
✦CD557475	14	1.50	50
✦CD562209	16	1.50	50

✦Canada only

Metric Bowma-Grip® Hex Nuts, All-Metal Prevailing-Torque Type

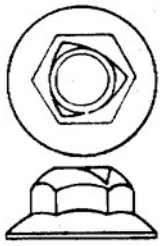


- Meets ISO property Class 12 specifications
- Performance requirements per ANSI B18.16.1M specifications
- Medium carbon steel
- Multiple heat treated
- Cadmium plated
- Standard thread
- Prevailing torque type
- Prelubricated with wax
- For use with property Class 12.9, 10.9, 9.8,and 8.8 bolts, screws and studs
- Note: For temperature applications up to 400°F only

Part No.	Dia. x Pitch	Unit
41769	M6 x 1.0	50
41771	M8 x 1.25	50
41772	M10 x 1.5	50
41773	M12 x 1.75	50
41774	M14 X 2.00	25
41775	M16 x 2.0	25
41776	M20 x 2.5	10

Non stock items are furnished non plated

Metric Bowma-Grip®, Hex Flange Lock Nuts, All-Metal Prevailing-Torque-Type



- Meets ISO property Class 12 specifications
- Performace requirements per ANSI B18.16.1M specifications
- Medium carbon steel
- Multiple heat treated
- Cadmium plated
- Standard thread
- Prevailing torque type
- Prelubricated with wax
- For use with property Class 12.9, 10.9, 9.8 and 8.8 bolts, screws and studs

Part No.	Dia. x Pitch	Unit
41781	M8 x 1.25	50
41782	M10 x 1.5	50
41783	M12 x 1.75	50
41785	M16 x 2.0	25

Lock Nuts - Prevailing Torque Metric Class 10 Cad & Wax



Metric Class 10 Prevailing Torque Lock Nuts are to be used with Metric10.9 Hex Head Cap Screws. They are pre-lubricated with wax for easy assembly. They are designed for applications requiring resistance to heavy vibration or shock.

Specifications:

- Cad & Wax plating - clear

Part No.	Size (mm)	UNIT
C764203	M6 x 1.00	100
C764205	M8 x 1.25	100
C764206	M10 x 1.50	100
C764207	M12 x 1.75	50

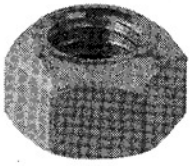
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Metric Class 8 Hex Lock Nuts

Stover Style



- Zinc and wax
- Use with Class 8.8 fasteners
- Stover type locking action for severe vibration resistance

Part No.	Dia. x Pitch	Unit
KP78599	M4 X 0.70	50
KP78600	M5 X 0.80	50
KP78601	M6 X 1.00	50
KP78602	M8 X 1.25	50
KP78603	M10 X 1.50	50
KP78604	M12 X 1.75	50
KP78605	M14 X 2.00	50
KP78606	M16 X 2.00	50

Metric Nylon Insert Lock Nuts



- Meets DIN 985 and ISO property Class 8 specifications
- Low carbon steel
- Zinc plated
- Standard thread or fine thread
- Nylon insert
- For use with property Class 8, 5.8 and 4.8 bolts, screws and studs

Standard Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
41749	M3 x 0.5	5.5	4	50
41750	M4 x 0.7	7	5	50
41751	M5 x 0.8	8	5	50
41752	M6 x 1.0	10	6	50
✤CD551277	M7 X 1.0	11	6	100
41754	M8 x 1.25	13	6	50
MP41754	M8 x 1.25	13	6	25
41755	M10 x 1.50	17	10	50
MP41755	M10 x 1.50	17	10	25
41756	M12 x 1.75	19	12	25
MP41756	M12 x 1.75	19	12	10
41757	M14 x 2.00	22	14	25
MP41757	M14 x 2.0	22	14	10
41758	M16 x 2.00	24	16	25
MP41758	M16 x 2.0	24	16	10
⌑41759	M18 x 2.5	27	18.5	25
41760	M20 x 2.5	30	20	25
MP41760	M20 x 2.5	30	20	5

✤Canada only

Fine Pitch

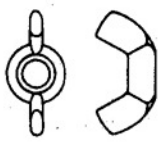
Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
C84739	M10 x 1.25	17	10	25
41764	M12 x 1.50	19	12	25
41765	M14 x 1.50	22	14	25
41766	M16 x 1.50	24	16	25

Extra Fine Pitch

Part No.	Dia. x Pitch	Flats (mm)	Thick (mm)	Unit
41762	M10 x 1.00	17	10	50
C84741	M12 x 1.25	19	12	10

Wing Nuts

Metric Wing Nuts



- Meets DIN 315 specifications
- Property Class 5
- Cold formed steel
- Zinc plated
- Standard thread

Part No.	Dia. x Pitch	Unit
42891	M3 x 0.5	50
42892	M4 x 0.7	50
42893	M5 x 0.8	50
42894	M6 x 1.0	50
42895	M8 x 1.25	50
42896	M10 x 1.5	50
42897	M12 x 1.75	50

Cap Nuts

Cap Nuts – Metric

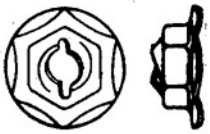


- Zinc - Clear Plating
- DIN 1587

Part No.	Size	Unit
C23685	M4 x .70	50
C23686	M5 x .80	50
C23687	M6 x 1.0	50
C23688	M8 x 1.25	25
C23689	M10 x 1.50	25
C23690	M11 x 1.75	10

Pal Nuts

Metric Pal Nuts



- Spring steel
- Zinc plated
- Washer type
- Self-threading
- Without sealer
- Part No. 43532 is black phosphate

Part No.	Dia. x Pitch	Unit
43532	M5 x 0.8	50
43533	M6.3 x 1.00	50

Bolt Retainers

Metric Bolt Retainer

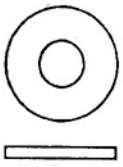


- Spring steel
- Black finish
- Standard thread

Part No.	Dia. x Pitch	Unit
CD72537-2	M5 x 0.8	100
43543	M8 x 1.25	100
43545	M12 x 1.75	100

Flat Washers

Metric Through-Hardened Flat Washers



- Meets to ANSI B18.22M specifications
- Medium carbon steel
- Zinc plated
- For use with 12.9, 10.9, 9.8 and 8.8 property class fasteners

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
C25041	M4	4.3	9	0.80	100
C25042	M5	5.3	10	1.00	100
43981	M6	6.4	12.50	1.6	1 lb.
MP43981	M6	6.4	12.50	1.6	100
C25043	M7	7.4	14	1.6	100
43983	M8	8.4	17	1.6	1 lb.

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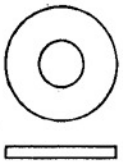
Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
MP43983	M8	8.4	17	1.6	100
43984	M10	10.5	21	2	1 lb.
MP43984	M10	10.5	21	2	100
43985	M12	13	24	2.50	1 lb.
MP43985	M12	13	24	2.50	50
43986	M14	15	28	2.50	1 lb.
MP43986	M14	15	28	2.50	50
43987	M16	17	30	3	1 lb.
MP43987	M16	17	30	3	25
C90634	M18	19	34	3	10
43989	M20	21	37	3	1 lb.
MP43989	M20	21	37	3	25
43990	M24	25	44	4	1 lb.
MP43990	M24	25	44	4	10

1 lb. — Pieces Conversion

- Approximate number of pieces per pound

Part No.	Pieces
43981	435
43983	150
43984	145
43985	70
43986	58
43987	35
43989	21
43990	15

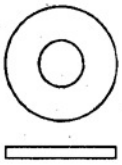
Metric Non-Hardened Flat Washers



- Meets DIN 125A specifications
- Low carbon steel
- Zinc plated
- For use with property class 5.8 and 4.8 fasteners

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
C89398	M2	2.2	5	0.3	100
C89399	M3	3.2	7	0.5	100
42460	M4	4.3	9	0.8	200
MP42460	M4	4.3	9	0.8	100
42461	M5	5.3	10	1.0	200
MP42461	M5	5.3	10	1.0	100
42462	M6	6.4	12	1.6	200
MP42462	M6	6.4	12	1.6	100
42463	M7	7.4	14	1.6	200
MP42463	M7	7.4	14	1.6	100
42464	M8	8.4	16	1.6	200
MP42464	M8	8.4	16	1.6	100
42465	M10	10.5	20	2.0	100
42466	M12	13.0	24	2.5	100
42467	M14	15	28	2.5	100
MP42467	M14	15	28	2.5	50
42468	M16	17	30	3.0	100
MP42468	M16	17	30	3.0	50
42469-18	M18	19	34	3.0	100
42469-20	M20	21	37	3.0	50
KP70093	M24	25	44	4.0	100

Metric Non-Hardened Flat Washers



- Meets DIN 125A specifications
- Low carbon steel
- To be used with property class 5.8 and 4.8 screws
- Non-plated

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
✦CD557527	M4	4.3	9	0.8	100
✦CD557528	M5	5.3	10	1.0	100
✦CD557529	M6	6.4	12	1.6	100
✦CD557530	M8	8.4	16	1.6	100
✦CD557531	M10	10.5	20	2.0	50
✦CD557532	M12	13.0	24	2.5	50
✦CD557533	M14	15	28	2.5	50
✦CD557534	M16	17	30	3	50
✦CD557536	M20	21	37	3	25
¤42469	M22	23	39	3	100
¤42469-1	M24	25	44	4	50
¤42469-2	M27	28	50	4	50
¤42469-3	M30	31	56	4	100
42469-6	M36	37	66	5	50

✦Canada only

Metric Spring Washers



- Meets DIN 137B specifications
- Non-plated
- Wave type

Part No.	Bolt Size	Unit
C30988	M3	100
42470	M4	200
42471	M5	200
42472	M6	200
42473	M7	200
42474	M8	200
42475	M10	200
42476	M12	200
42477	M14	200
42478	M16	200

Metric Fender Washers



- DIN 9021B
- Zinc plating

Part No.	Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
KP83240	M5	5.3	15	1.6	50
KP83241	M6	6.4	18	1.6	50
KP83242	M8	8.4	25	2.0	50
KP83243	M10	10.5	30	2.5	50

Metric Washers - Oversize

Canada Only

- Zinc plating
- DIN 9021 and DIN 125

Part No.	DIN	Bolt Size	O.D. (mm)	Unit
✦CD551115	9021	M4	12	50
✦CD551149	9021	M5	15	50
✦CD551200	9021	M6	18	50
✦CD551201	9021	M6	30	50
✦CD551286	9021	M8	25	50
✦CD551356	9021	M10	30	50
✦CD551558	125	M22	39	25

✦Canada only

Lock Washers

Metric Lock Washers



- Meets DIN 127B specifications
- Spring steel
- Heat treated
- Zinc plated
- Non-linking
- For use with 12.9, 10.9 and 8.8 fasteners

Part No.	Bolt Size	Unit
C30990	M3	100
42450	M4	200
MP42450	M4	100
42451	M5	200
MP42451	M5	100
42452	M6	200
MP42452	M6	100
42453	M7	200
MP42453	M7	100
42454	M8	200

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Part No.	Bolt Size	Unit
MP42454	M8	100
42455	M10	100
MP42455	M10	50
42456	M12	100
MP42456	M12	50
42457	M14	100
MP42457	M14	50
42458-16	M16	100
MP42458-16	M16	50
42458-18	M18	50
42458-20	M20	50
MP42458-20	M20	25
42459-1	M24	50
MP42459-1	M24	25

Metric Lock Washers



- Meets DIN 127B specifications
- To be used with property class 8.8 screws
- Spring Steel HRC 44 - 51
- Non-plated

Part No.	Bolt Size	Unit
✦CD551116	M4	100
✦CD551150	M5	100
✦CD551202	M6	100
✦CD551288	M8	100
✦CD551357	M10	100
✦CD551420	M12	100
✦CD551500	M16	50
✦CD551536	M20	25
¤42449	M22	100
¤42449-1	M24	100
¤42449-2	M27	100
¤42449-3	M30	100
¤42449-5	M36	50

✦Canada only

Metric Serrated Lock Washers



- Meets DIN 6798 Type A specifications
- Spring steel

Part No.	Bolt Size	Unit
42480	M6	200
42481	M8	100
42482	M10	100
42483	M12	100

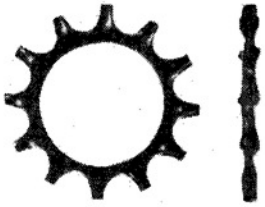
Hi-Collar Metric Lock Washers



- Meets DIN 7980 dimensional specifications
- Non-plated
- HRC 44-51 spring steel

Part No.	Size (In.)	Unit
47410	M3	50
47411	M4	50
47412	M5	50
47413	M6	50
47414	M8	50
47415	M10	50
47416	M12	25
47417	M14	25
47418	M16	10
47419	M20	10
47420	M24	5
47421	M30	5

Metric Toothed Lock Washers - ✦Canada Only



- Internal and External
- Zinc plating.

Internal Part No.	External Part No.	Bolt Size	Unit
C69621	C69615	M4	100
C69622	C69616	M5	100
C69623	C69617	M6	100
C69624	C69618	M8	100
C69625	C69619	M10	100
C69626	C69620	M12	100

Cotter Pins

Metric Cotter Pins



- Meets DIN 94 specifications
- Meets ISO R 1234 specifications
- Steel
- Zinc plated
- Extended prong type

Part No.	Dia.	Length (mm)	Unit
✦CD550502	M1	16	100
42515	M1.6	20	200
✦CD550513	M1.6	22	100
42522	M2	18	200
✦CD550503	M2	20	100
42524	M2	22	200
42526	M2	25	200
✦CD550505	M2	32	100
✦CD550530	M2.5	25	100
✦CD550531	M2.5	40	100
42533	M3.2	25	200
42538	M3.2	30	200
✦CD550534	M3.2	32	100
✦CD550535	M3.2	40	100
✦CD550536	M3.5	30	100
✦CD550537	M3.5	40	100
42543	M4	30	200
42544	M4	32	200
42546	M4	40	200
✦CD550510	M4	50	100
42556	M5	45	100
C18959	M5	60	100
42558	M5	63	100

✦Canada only

Spring Pins

Metric Spring Pins



- Meets DIN 1481 specifications
- High carbon steel

Part No.	Dia.	Length (mm)	Unit
KP37020	M2	6	50
KP37021	M2	8	50
KP37022	M2	16	50
KP37024	M2	20	50
42810	M2.5	20	100
MP42810	M2.5	20	50
42812	M2.5	26	100
MP42812	M2.5	26	50
KP37025	M3	10	50
42814	M3	12	100
KP37026	M3	16	50
42816	M3	20	100
MP42816	M3	20	50
KP37029	M3	24	50
42818	M3	26	100
MP42818	M3	26	50
KP37031	M3	30	50
42820	M3	32	100
MP42820	M3	32	50
42822	M3	40	100
MP42822	M3	40	50
KP37035	M4	12	50
KP37036	M4	16	50
42825	M4	20	100

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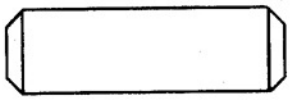
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Part No.	Dia.	Length (mm)	Unit
MP42825	M4	20	50
42827	M4	26	100
MP42827	M4	26	50
KP37040	M4	30	50
42829	M4	32	100
MP42829	M4	32	50
42831	M4	40	100
MP42831	M4	40	50
KP37043	M4	50	50
Part No.	**Dia.**	**Length (mm)**	**Unit**
42834	M5	20	100
MP42834	M5	20	50
42836	M5	26	100
KP37049	M5	30	25
42838	M5	32	100
MP42838	M5	32	50
42840	M5	40	100
KP37051	M5	45	25
42842	M5	50	100
KP37053	M5	60	25
Part No.	**Dia.**	**Length (mm)**	**Unit**
KP37054	M6	18	25
42845	M6	26	50
KP37056	M6	30	25
42847	M6	32	50
42849	M6	40	50
42850	M6	45	50
42851	M6	50	25
42853	M6	75	25
Part No.	**Dia.**	**Length (mm)**	**Unit**
42856	M8	20	100
42859	M8	32	50
42861	M8	40	50
42862	M8	45	50
42863	M8	50	25
Part No.	**Dia.**	**Length (mm)**	**Unit**
42866	M10	40	25
42867	M10	45	25

Dowel Pins

Metric Dowel Pins



- Meets DIN 6325 and/or ISO 8734 A M6
- Steel hardened
- Precision ground

Part No.	Diameter	Length (mm)	Unit
70000	M2	10	100
70001	M2	20	100
70002	M2	40	100
70003	M3	10	50
70004	M3	12	50
70005	M3	16	50
70006	M3	20	50
70007	M3	24	50
70008	M3	40	25
70009	M4	12	50
70010	M4	20	50
70011	M4	30	25
70012	M4	40	25
70013	M5	12	25
70014	M5	16	25
70015	M5	20	25
70016	M5	30	25
70017	M6	20	25
70018	M6	60	25
70019	M8	20	25
70020	M8	30	25
70021	M10	24	25
70022	M10	30	25
70023	M10	50	25
70024	M12	30	10

Retaining Rings

Metric Internal Retaining Rings



- Meets DIN 472 specifications
- Carbon spring steel
- Heat treated
- Black oil finish

Part No.	Housing Dia.	Groove Dia. (mm)	Thickness (mm)	Unit
KP71723	M8	8.4	.80	25
KP71724	M9	9.4	.80	25
43441	M10	10.4	1.00	50
KP71726	M11	11.4	1.00	25
43442	M12	12.5	1.00	50
43443	M14	14.6	1.00	50
43444	M15	15.7	1.00	50
43445	M16	16.8	1.00	50
43446	M18	19.0	1.00	50
43447	M19	20.0	1.00	50
43448	M20	21.0	1.00	50
43449	M22	23.0	1.00	50
43450	M24	25.2	1.20	50
43451	M25	26.2	1.20	50
KP71734	M28	29.4	1.20	10
KP71735	M32	33.7	1.20	10
KP71736	M35	37.0	1.50	10

Metric External Retaining Rings



- Meets DIN 471 specifications
- Carbon spring steel
- Heat treated
- Black oil finish

Part No.	Shaft Dia.	Groove Dia. (mm)	Thickness (mm)	Unit
43421*	M4	3.7	.40	50
43422*	M6	5.6	.70	50
43423*	M8	7.4	.80	50
KP71744	M9	8.6	1.00	25
43424	M10	9.3	1.00	50
KP71746	M11	10.5	1.00	25
43425	M12	11.0	1.00	50
43426	M14	12.9	1.00	50
43427	M15	13.8	1.00	50
43428	M16	14.7	1.00	50
CD552093	M17	16.2	1.10	50
43429	M18	16.5	1.20	50
43430	M20	18.5	1.20	50
43431	M22	20.5	1.20	50
KP71753	M24	22.9	1.20	10
43432	M25	23.2	1.20	25
KP71754	M28	26.6	1.50	10
✦CD552096	M30	28.6	1.60	50
KP71755	M32	30.3	1.50	10
KP71756	M35	33.0	1.50	10

✦Canada only

Metric "E" Retaining Rings



- Meets DIN 6799 specifications
- Carbon spring steel
- Heat treated
- Black oil finish

Part No.	Shaft Dia.	Groove Dia. (mm)	Thickness (mm)	Unit
43401	M1.70	1.2	.30	50
43402	M2.25	1.5	.40	50
43403	M2.75	1.9	.50	50
43404	M3.50	2.3	.60	50
43405	M4.50	3.2	.60	50
43406	M6.00	4.0	.70	50
43407	M7.00	5.0	.70	50
43408	M8.00	6.0	.70	50
43409	M9.50	7.0	.90	50
43410	M10.5	8.0	1.00	50
C85435	M11.0	10.0	1.23	50
43411	M12.0	9.0	1.10	50
43412	M13.0	10.0	1.20	50
43413	M15.5	12.0	1.30	50
C85437	M15.5	15.0	1.53	50

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Metric Threaded Rod

Metric Threaded Rod Stock



- Low carbon steel
- Zinc plated
- Standard thread
- One meter lengths

Part No.	Dia. x Pitch	Unit
42692	M5 x 0.8	5
42693	M6 x 1.0	5
42694	M8 x 1.25	5
KP83301	M10 X 1.25	1
42695	M10 x 1.5	2
KP83302	M12 X 1.25	1
42696	M12 x1.75	2
42697	M14 x 2.0	2
42698	M16 x 2.0	2
42699	M18 x 2.5	1
42700	M20 x 2.5	1

Metric Threaded Rod Plain Stock
Canada Only



- 1 metre length
- Class 4.6
- DIN 975

Part No.	Dia. x Pitch	Unit
✦CD26018	M8 X 1.25	1
✦CD26019	M10 X 1.50	1
✦CD26020	M12 X 1.75	1
✦CD26022	M16 X 2.00	1
✦CD26024	M20 X 2.50	1
✦CD561529	M24 X 3.00	1

✦Canada only

Metric Square Keystock

Metric Key Stock

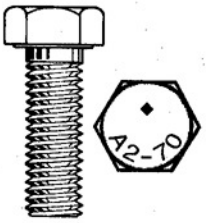
- Meets DIN 6880 specifications (mechanical property acc. DIN 1652)
- AISI 1045 steel
- Non-plated
- 1 meter length

Part No.	Size	Unit
¤40160	M3 x M3	1
40161	M4 x M4	1
40162	M5 x M5	1
¤40163	M6 x M4	1
40164	M6 x M6	1
40165	M7 x M7	1
¤40166	M8 x M5	1
¤40167	M8 x M7	1
40168	M8 x M8	1
¤40169	M10 x M6	1
¤40170	M10 x M8	1
40171	M10 x M10	1
¤40172	M12 x M8	1
40173	M12 x M12	1
¤40174	M14 x M9	1
*KP1497	M14 X M14	1
¤40176	M16 x M10	1
*KP1498	M16 X M16	1
¤40178	M18 x M11	1
*KP1499	M18 X M18	1
¤40179	M20 x M12	1
*KP1500	M20 X M20	1
¤40181	M22 x M14	1

*12" Length

Metric Stainless Steel

Metric Stainless Steel Hex Head Cap Screws



- Meets DIN 933 (fully threaded) or DIN 931 (partially threaded) dimensional requirements
- Meets mechanical and material specifications of ISO 3506
- Steel Grade A2 (Metric equivalent to 18-8 stainless steel)
- Property Class 70

Part No.	Dia. x Pitch	Length (mm)	Unit
47300	M4 x 0.7	10	50
47297	M4 x 0.7	12	50
47298	M4 x 0.7	16	50
47299	M4 x 0.7	20	50
C30044	M4 x 0.7	25	50
C30045	M4 x 0.7	30	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47302	M5 x 0.8	10	50
47303	M5 x 0.8	12	50
47304	M5 x 0.8	16	50
47305	M5 x 0.8	20	50
47306	M5 x 0.8	25	50
47307	M5 x 0.8	30	50
47308	M5 x 0.8	35	50
47309†	M5 x 0.8	40	50
47310†	M5 x 0.8	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47311	M6 x 1.0	10	50
47312	M6 x 1.0	12	50
47313	M6 x 1.0	16	50
47314	M6 x 1.0	20	50
47315	M6 x 1.0	25	50
47316	M6 x 1.0	30	50
47317	M6 x 1.0	35	50
47318	M6 x 1.0	40	50
MP47318	M6 x 1.0	40	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
C30062†	M6 x 1.0	45	25
47319†	M6 x 1.0	50	50
MP47319†	M6 x 1.0	50	25
47319-1†	M6 x 1.0	60	50
MP47319-1†	M6 x 1.0	60	25
47320-1†	M6 x 1.0	70	50
MP47320-1†	M6 x 1.0	70	25
47320-2†	M6 x 1.0	80	50
MP47320-2†	M6 x 1.0	80	25
47320-3†	M6 x 1.0	100	50
MP47320-3†	M6 x 1.0	100	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47320-4	M8 x 1.25	14	50
47320	M8 x 1.25	10	50
47321	M8 x 1.25	12	50
47322	M8 x 1.25	16	50
MP47322	M8 x 1.25	16	25
47323	M8 x 1.25	20	50
MP47323	M8 x 1.25	20	25
47324	M8 x 1.25	25	50
MP47324	M8 x 1.25	25	25
47325	M8 x 1.25	30	50
MP47325	M8 x 1.25	30	25
47326	M8 x 1.25	35	50
47327	M8 x 1.25	40	50
MP47327	M8 x 1.25	40	10
47328	M8 x 1.25	45	50
MP47328	M8 x 1.25	45	10
47329	M8 x 1.25	50	50
MP47329	M8 x 1.25	50	10
47329-1†	M8 x 1.25	60	50
MP47329-1†	M8 x 1.25	60	10
47329-2†	M8 x 1.25	70	50
MP47329-2†	M8 x 1.25	70	10
47329-3†	M8 x 1.25	80	50
MP47329-3†	M8 x 1.25	80	10
47329-4†	M8 x 1.25	100	25
MP47329-4†	M8 x 1.25	100	10
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47330	M10 x 1.5	16	50
MP47330	M10 x 1.5	16	10
47331	M10 x 1.5	20	50
MP47331	M10 x 1.5	20	10
47332	M10 x 1.5	25	50
MP47332	M10 x 1.5	25	10
47333	M10 x 1.5	30	25
MP47333	M10 x 1.5	30	10
47334	M10 x 1.5	35	25
47335	M10 x 1.5	40	25
MP47335	M10 x 1.5	40	10
47336	M10 x 1.5	45	25
47337	M10 x 1.5	50	25
MP47337	M10 x 1.5	50	10
47338	M10 x 1.5	55	25
47339	M10 x 1.5	60	25
MP47339	M10 x 1.5	60	10
47339-1	M10 x 1.5	70	25
47339-2†	M10 x 1.5	80	25
47339-3†	M10 x 1.5	90	25
47339-4†	M10 x 1.5	100	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47340	M12 x 1.75	20	25
MP47340	M12 x 1.75	20	10
47341	M12 x 1.75	25	25
MP47341	M12 x 1.75	25	10
47342	M12 x 1.75	30	25
MP47342	M12 x 1.75	30	10
47343	M12 x 1.75	35	25
MP47343	M12 x 1.75	35	10

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Part No.	Dia. x Pitch	Length (mm)	Unit
47344	M12 x 1.75	40	25
MP47344	M12 x 1.75	40	10
47345	M12 x 1.75	50	25
MP47345	M12 x 1.75	50	10
47346	M12 x 1.75	55	25
47347	M12 x 1.75	60	25
MP47347	M12 x 1.75	60	10
47348†	M12 x 1.75	70	25
MP47348†	M12 x 1.75	70	10
47349†	M12 x 1.75	80	25
MP47349†	M12 x 1.75	80	10
47349-1†	M12 x 1.75	90	25
MP47349-1†	M12 x 1.75	90	10
47349-2†	M12 x 1.75	100	5
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47350	M16 x 2.0	25	25
MP47350	M16 x 2.0	25	10
47351	M16 x 2.0	30	25
MP47351	M16 x 2.0	30	10
47352	M16 x 2.0	35	25
47353	M16 x 2.0	40	10
47354	M16 x 2.0	45	10
47355	M16 x 2.0	50	10
47356	M16 x 2.0	60	5
47357	M16 x 2.0	70	5
47357-1†	M16 x 2.0	80	5
47357-2†	M16 x 2.0	90	5
47358†	M16 x 2.0	100	5
47359†	M16 x 2.0	120	5
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47360	M20 x 2.5	30	5
47361	M20 x 2.5	40	5
47362	M20 x 2.5	50	5
47363	M20 x 2.5	60	5
47364	M20 x 2.5	70	5
47365	M20 x 2.5	80	5
47366†	M20 x 2.5	100	5
47367†	M20 x 2.5	120	5
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47368	M24 x 3.0	60	1
47377†	M24 x 3.0	150	1

†Din 931

Metric Stainless Steel Hex Nuts

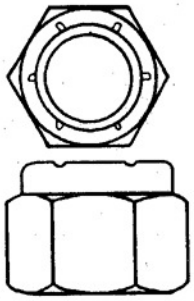


◆ Indicates manufacturer's identification symbol

- Meets DIN 934 dimensional requirements
- Meets mechanical and material specifications of ISO 3506
- Steel Grade A2 (metric equivalent to 18-8 stainless steel)
- Property Class 70

Part No.	Dia. x Pitch	Unit
KP83552	M2 X 0.40	100
47380	M3 x 0.5	100
47381	M4 x 0.7	50
47382	M5 x 0.8	50
47383	M6 x 1.0	50
47385	M8 x 1.25	50
47386	M10 x 1.5	50
47387	M12 x 1.75	25
47387-1	M14 x 2.0	25
47388	M16 x 2.0	25
47389	M20 x 2.5	25
47389-1	M24 x 3.0	5

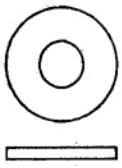
Metric Stainless Steel Nylon Hex Lock Nuts



- Meets DIN 985 specifications
- Meets mechanical and material specifications of ISO 7040
- ANSI B 18.16.3 M
- Steel Grade A2

PartNo.	Dia.xPitch	Unit
47212	M4x0.7	50
47213	M5x0.8	50
47214	M6x1.0	50
47215	M8x1.25	50
47216	M10x1.5	50
47217	M12x1.75	50

Metric Stainless Steel Flat Washers



- Meets DIN 125A dimensional specifications
- Steel Grade A2 (metric equivalent to 18-8 stainless steel)

Part No.	Bolt Size	I.D. (mm)	O.D. (mm)	Thickness (mm)	Unit
KP83558	M2	2.2	5	0.3	100
47390	M3	3.2	7	0.5	200
47391	M4	4.3	9	0.8	100
47392	M5	5.3	10	1.0	100
47393	M6	6.4	12	1.6	100
47395	M8	8.4	16	1.6	100
47396	M10	10.5	20	2	100
47397	M12	13	24	2.5	50
47397-1	M14	15	28	2.5	50
47398	M16	17	30	3	50
47399	M20	21	37	3	25
47399-1	M24	25	44	4	25

Metric Stainless Steel Lock Washers

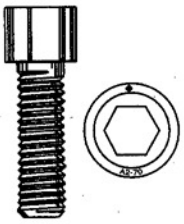
Non-Linking Type



- Meets DIN 127 Type B specifications
- Steel Grade A2 (metric equivalent to 18-8 stainless steel)

Part No.	Bolt Size	Unit
KP83555	M2	100
47200	M3	100
47201	M4	100
47202	M5	100
47203	M6	100
47204	M8	100
47205	M10	50
47206	M12	50
47207	M14	50
47208	M16	25
47209	M18	25
47210	M20	10
47211	M24	10

Metric Stainless Steel Socket Head Cap Screws



◆ Indicates manufacturer's identification symbol

- Meets DIN 912 specifications
- Meets mechanical and material specifications of ISO 3506
- Steel Grade A2 (metric equivalent to 18-8 stainless steel)
- Property Class 70

Part No.	Dia. x Pitch	Length (mm)	Unit
KP83804	M2 X 0.40	10	25
KP83805	M2 X 0.40	16	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP83806	M3 X .050	4	25
47400	M3 x 0.5	6	100
47401	M3 x 0.5	8	100
47402	M3 x 0.5	10	100
47403	M3 x 0.5	12	100
47404	M3 x 0.5	16	100
47405	M3 x 0.5	20	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47500	M4 x 0.7	6	50
47501	M4 x 0.7	8	50
47502	M4 x 0.7	10	50
47503	M4 x 0.7	12	100
47504	M4 x 0.7	16	50
47505	M4 x 0.7	20	50
47506	M4 x 0.7	25	50
47507	M4 x 0.7	30	50
47509	M4 x 0.7	40	50
47511	M4 x 0.7	50	50

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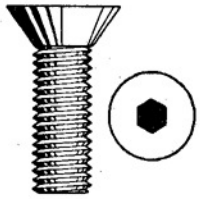
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Metric Fasteners

Continued from previous page

Part No.	Dia. x Pitch	Length (mm)	Unit
47520	M5x 0.8	6	50
47521	M5x 0.8	8	50
47522	M5x 0.8	10	50
47523	M5x 0.8	12	50
47524	M5x 0.8	16	50
47525	M5x 0.8	20	50
47526	M5x 0.8	25	50
47527	M5x 0.8	30	50
47528	M5x 0.8	35	50
47529	M5x 0.8	40	50
47529-1	M5x 0.8	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47530	M6 x 1.0	8	50
47531	M6 x 1.0	10	50
47532	M6 x 1.0	12	50
47533	M6 x 1.0	16	50
47534	M6 x 1.0	20	50
47535	M6 x 1.0	25	50
47536	M6 x 1.0	30	50
47537	M6 x 1.0	35	50
47538	M6 x 1.0	40	50
47538-1	M6 x 1.0	45	50
47539	M6 x 1.0	50	50
47539-1	M6 x 1.0	60	50
47539-2	M6 x 1.0	70	50
47539-3	M6 x 1.0	80	25
47539-4	M6 x 1.0	100	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47540	M8 x 1.25	10	50
MP47540	M8 x 1.25	10	25
47541	M8 x 1.25	12	50
MP47541	M8 x 1.25	12	25
47542	M8 x 1.25	16	50
MP47542	M8 x 1.25	16	25
47543	M8 x 1.25	20	50
MP47543	M8 x 1.25	20	25
47544	M8 x 1.25	25	50
MP47544	M8 x 1.25	25	25
47545	M8 x 1.25	30	50
MP47545	M8 x 1.25	30	25
47546	M8 x 1.25	35	50
MP47546	M8 x 1.25	35	25
47547	M8 x 1.25	40	50
MP47547	M8 x 1.25	40	25
47548	M8 x 1.25	45	50
MP47548	M8 x 1.25	45	25
47549	M8 x 1.25	50	25
47549-1	M8 x 1.25	60	25
47549-2	M8 x 1.25	70	25
47549-3	M8 x 1.25	80	25
47549-4	M8 x 1.25	100	10
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47550	M10 x 1.5	16	50
MP47550	M10 x 1.5	16	25
47551	M10 x 1.5	20	50
MP47551	M10 x 1.5	20	25
47552	M10 x 1.5	25	50
MP47552	M10 x 1.5	25	25
47553	M10 x 1.5	30	50
MP47553	M10 x 1.5	30	25
47554	M10 x 1.5	35	50
MP47554	M10 x 1.50	35	25
47555	M10 x 1.5	40	50
MP47555	M10 x 1.50	40	25
47556	M10 x 1.5	45	25
47557	M10 x 1.5	50	25
47558	M10 x 1.5	55	25
47559	M10 x 1.5	60	25
47559-1	M10 x 1.5	70	25
47559-2	M10 x 1.5	80	25
47559-3	M10 x 1.5	90	10
47559-4	M10 x 1.5	100	10
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
C746404	M12 x 1.75	20	10
47560	M12 x 1.75	25	25
MP47560	M12 x 1.75	25	10
47561	M12 x 1.75	30	25
MP47561	M12 x 1.75	30	10
47562	M12 x 1.75	35	25
MP47562	M12 x 1.75	35	10
47563	M12 x 1.75	40	25
MP47563	M12 x 1.75	40	10
47564	M12 x 1.75	45	25
47565	M12 x 1.75	50	25
47566	M12 x 1.75	55	25
47567	M12 x 1.75	60	10
47568	M12 x 1.75	70	10
47569	M12 x 1.75	80	10
47570	M12 x 1.75	90	10
47571	M12 x 1.75	100	10
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47574	M16 x 2.0	60	5
47575	M16 x 2.0	70	5
47576	M16 x 2.0	80	5
47577	M16 x 2.0	90	5
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47581	M20 x 2.5	40	1
47582	M20 x 2.5	50	1
47583	M20 x 2.5	60	1
47585	M20 x 2.5	80	1
47586	M20 x 2.5	100	1

Metric Stainless Steel Socket Flat Head Cap Screws

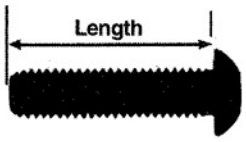


- Meets DIN 7991 specifications
- Property Class 70
- Steel Grade A2 (metric equivalent to 18-8 stainless steel)

Part No.	Dia. x Pitch	Length (mm)	Unit
47000	M3 x 0.5	6	100
47001	M3 x 0.5	8	100
47002	M3 x 0.5	10	100
47003	M3 x 0.5	12	100
47004	M3 x 0.5	16	100
47005	M3 x 0.5	20	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47010	M4 x 0.7	6	100
47011	M4 x 0.7	8	100
47012	M4 x 0.7	10	100
47013	M4 x 0.7	12	100
47014	M4 x 0.7	16	100
47015	M4 x 0.7	20	100
KP82388	M4 X 0.70	25	25

Part No.	Dia. x Pitch	Length (mm)	Unit
KP82391	M5 X 0.80	8	25
KP82392	M5 X 0.80	10	25
KP82393	M5 X 0.80	12	25
KP82394	M5 X 0.80	16	25
KP82395	M5 X 0.80	20	25
KP82396	M5 X 0.80	25	25
KP82397	M5 X 0.80	30	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47020	M6 x 1.0	8	50
47021	M6 x 1.0	10	50
47022	M6 x 1.0	12	50
47023	M6 x 1.0	16	50
47024	M6 x 1.0	20	50
47025	M6 x 1.0	25	50
47026	M6 x 1.0	30	50
47027	M6 x 1.0	40	50
47028	M6 x 1.0	50	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47030	M8 x 1.25	12	25
47031	M8 x 1.25	16	25
47032	M8 x 1.25	20	25
47033	M8 x 1.25	25	25
47034	M8 x 1.25	30	25
47035	M8 x 1.25	40	25
47036	M8 x 1.25	50	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP82412	M10 X 1.50	16	10
KP82413	M10 X 1.50	20	10
KP82414	M10 X 1.50	25	10
KP82415	M10 X 1.50	30	10
KP82416	M10 X 1.50	35	10
KP82417	M10 X 1.50	40	10
KP82419	M10X 1.50	50	10
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP82420	M12 X 1.75	20	10
KP82422	M12 X 1.75	30	10
KP82423	M12 X 1.75	40	10

Metric Stainless Steel Button Socket Cap Screws



- ISO 7380 specification
- Grade A2 stainless steel

Part No.	Dia. x Pitch	Length (mm)	Unit
KP82425	M3 X 0.50	6	25
KP82426	M3 X 0.50	8	25
KP82427	M3 X 0.50	10	25
KP82428	M3 X 0.50	12	25
KP82430	M3 X 0.50	16	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP82432	M4 X 0.70	10	25
KP82433	M4 X 0.70	12	25
KP82435	M4 X 0.70	16	25

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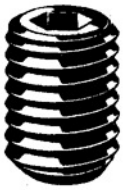
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Part No.	Dia. x Pitch	Length (mm)	Unit
KP82436	M5 X 0.80	8	25
KP82437	M5 X 0.80	10	25
KP82438	M5 X 0.80	12	25
KP82440	M5 X 0.80	16	25
KP82441	M5 X 0.80	20	25
KP82442	M5 X 0.80	25	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP82444	M6 X 1.00	8	25
KP82445	M6 X 1.00	10	25
KP82446	M6 X 1.00	12	25
KP82448	M6 X 1.00	16	25
KP82449	M6 X 1.00	20	25
KP82450	M6 X 1.00	25	25
KP82451	M6 X 1.00	30	25

Metric 304 Stainless Steel Hex Socket Set Screws

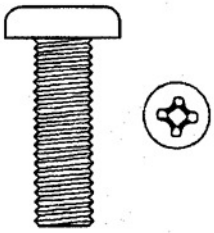


- Steel Grade A2 (metric equivalent to 18-8 stainless steel)
- Meets DIN 916 A2 specifications
- Cup point

Part No.	Dia. x Pitch	Length (mm)	Unit
47900	M2 x 0.4	3	50
47901	M2 x 0.4	4	50
47902	M2 x 0.4	5	50
47903	M2 x 0.4	6	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47910	M2.5 x 0.45	4	50
47911	M2.5 x 0.45	5	50
47912	M2.5 x 0.45	6	50
47913	M2.5 x 0.45	8	50
47914	M2.5 x 0.45	10	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47920	M3 x 0.5	5	50
47921	M3 x 0.5	6	50
47922	M3 x 0.5	8	50
47923	M3 x 0.5	10	50
47926	M3 x 0.5	16	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47930	M4 x 0.7	5	50
47931	M4 x 0.7	6	50
47932	M4 x 0.7	8	50
47933	M4 x 0.7	10	50
47934	M4 x 0.7	12	50
47936	M4 x 0.7	16	50
47938	M4 x 0.7	20	50
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47940	M5 x 0.8	6	50
47941	M5 x 0.8	8	50
47942	M5 x 0.8	10	50
47943	M5 x 0.8	12	50
47945	M5 x 0.8	16	50
47947	M5 x 0.8	20	50
47949	M5 x 0.8	30	50

Part No.	Dia. x Pitch	Length (mm)	Unit
KP88769	M6 X 1.00	6	25
KP88926	M6 X 1.00	8	25
47955	M6 x 1.0	10	50
KP88927	M6 X 1.0	12	25
47958	M6 x 1.0	16	50
47960	M6 x 1.0	20	50
47962	M6 x 1.0	30	25
47964	M6 x 1.0	40	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47970	M8 x 1.25	10	50
47973	M8 x 1.25	16	50
47975	M8 x 1.25	20	50
47977	M8 x 1.25	30	25
47979	M8 x 1.25	40	25
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47985	M10 x 1.5	16	25
47987	M10 x 1.5	20	25
47989	M10 x 1.5	30	10
47991	M10 x 1.5	40	10
47993	M10 x 1.5	50	10
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
47995	M12 x 1.75	20	10
47997	M12 x 1.75	30	10
47998	M12 x 1.75	40	10
47999	M12 x 1.75	50	10

Metric Phillips Pan Head - Stainless Steel



The low profile head provides a large bearing surface.

- Meets JIS 1111 specifications
- 18-8 stainles steel.

Part No.	Dia. x Pitch	Length (mm).	Unit
C30115	M3 x 0.50	5	100
C30116	M3 x 0.50	6	100
C30117	M3 x 0.50	8	100
C30118	M3 x 0.50	10	100
C30119	M3 x 0.50	16	100
C30120	M3 x 0.50	20	100
C30121	M4 x 0.70	8	100
C30122	M4 x 0.70	10	100
C30123	M4 x 0.70	12	100
C30124	M4 x 0.70	16	100
C30125	M4 x 0.70	20	100
C30126	M4 x 0.70	25	100
C30127	M5 x 0.80	10	50
C30128	M5 x 0.80	16	50
C30129	M5 x 0.80	20	50
C30130	M6 x 1.00	12	50
C30131	M6 x 1.00	16	50
C30132	M6 x 1.00	20	50
C30133	M6 x 1.00	25	50

Metric Stainless Steel

Phillips Pan Head Machine Screws DIN 7985

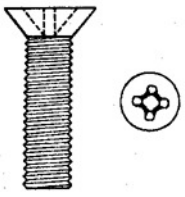


- A2 stainless steel

Part No.	Dia. x Pitch	Length (mm)	Unit
KP83538	M2 X 0.40	6	100
KP83539	M2 X 0.40	8	100
KP83540	M2 X 0.40	10	100
KP83541	M2 X 0.40	16	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88457	M2.5 X 0.45	8	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88458	M3 X 0.50	5	100
KP87163	M3 X 0.50	6	100
KP83542	M3 X 0.50	8	100
KP83543	M3 X 0.50	10	100
KP83544	M3 X 0.50	16	100
KP83545	M3 X 0.50	20	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88459	M4 X 0.70	6	100
KP87164	M4 X 0.70	8	100
KP87165	M4 X 0.70	10	100
KP87166	M4 X 0.70	12	100
KP83546	M4 X 0.70	16	100
KP83547	M4 X 0.70	20	100
KP83548	M4 X 0.70	25	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88460	M5 X 0.80	8	100
KP83549	M5 X 0.80	10	100
KP87167	M5 X 0.80	12	100
KP83550	M5 X 0.80	16	100
KP87168	M5 X 0.80	20	100
KP83551	M5 X 0.80	25	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP87169	M6 X 1.00	10	100
KP87170	M6 X 1.00	12	100
KP87171	M6 X 1.00	16	100
KP87172	M6 X 1.00	20	100
KP87173	M6 X 1.00	25	100
KP87174	M6 X 1.00	30	100

Metric Stainless Steel

Phillips Flat Head Machine Screws DIN 965



A2 stainless steel

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Part No.	Dia. x Pitch	Length (mm)	Unit
KP88928	M2 X 0.40	4	100
KP88929	M2 X 0.40	6	100
KP88936	M2 X 0.40	8	100
KP88937	M2 X 0.40	10	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88942	M2.5 X 0.45	5	100
KP88943	M2.5 X 0.45	6	100
KP88944	M2.5 X 0.45	8	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88946	M3 X 0.50	6	100
KP88947	M3 X 0.50	8	100
KP88948	M3 X 0.50	10	100
KP88951	M3 X 0.50	16	100
KP88956	M3 X 0.50	20	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88957	M4 X 0.70	6	100
KP88958	M4 X 0.70	8	100
KP88959	M4 X 0.70	10	100
KP88961	M4 X 0.70	12	100
KP88964	M4 X 0.70	16	100
KP88965	M4 X 0.70	20	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP88997	M5 X 0.80	8	100
KP88998	M5 X 0.80	10	100
KP89013	M5 X 0.80	12	100
KP89018	M5 X 0.80	16	100
KP89026	M5 X 0.80	20	100
KP89035	M5 X 0.80	25	100
Part No.	**Dia. x Pitch**	**Length (mm)**	**Unit**
KP86712	M6 X 1.00	10	100
KP86713	M6 X 1.00	12	100
KP86714	M6 X 1.00	16	100
KP87321	M6 X 1.00	20	100

Metric Stainless Steel Spring Pins

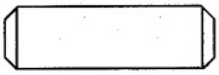


- Meets DIN 1481 specifications
- AISI 301 stainless steel

Part No.	Diameter	Length (mm)	Unit
47600	M2.5	6	100
47601	M2.5	8	100
47602	M2.5	10	100
47605	M2.5	16	50
47607	M2.5	20	50
Part No.	**Diameter**	**Length (mm)**	**Unit**
47610	M3	6	100
47611	M3	8	100
47612	M3	10	50
47615	M3	16	50
47617	M3	20	50
47619	M3	30	50
Part No.	**Diameter**	**Length (mm)**	**Unit**
47622	M4	8	50
47623	M4	10	50
47626	M4	16	50
47628	M4	20	25
47630	M4	30	25
47632	M4	40	25

Part No.	Diameter	Length (mm)	Unit
47635	M6	10	25
47638	M6	16	25
47640	M6	20	25
47642	M6	30	25
47644	M6	40	10
47646	M6	50	10
Part No.	**Diameter**	**Length (mm)**	**Unit**
47649	M8	10	10
47654	M8	20	10
47656	M8	30	10
47658	M8	40	10
47660	M8	50	10
Part No.	**Diameter**	**Length (mm)**	**Unit**
47663	M10	10	10
47668	M10	20	10
47670	M10	30	5
47672	M10	40	5
47674	M10	50	5
47676	M10	60	5

Metric Stainless Steel Dowel Pins



- Meets VSM 12771B h8 specifications
- Steel Grade A1
- Property Class 50

Part No.	Diameter	Length (mm)	Unit
40000	M3	6	50
MP40000	M3	6	25
40001	M3	8	50
MP40001	M3	8	25
40002	M3	10	50
MP40002	M3	10	25
40003	M3	16	50
MP40003	M3	16	25
40004	M3	20	50
MP40004	M3	20	25
Part No.	**Diameter**	**Length (mm)**	**Unit**
40005	M4	6	50
MP40005	M4	6	10
40006	M4	8	50
MP40006	M4	8	10
40007	M4	10	50
MP40007	M4	10	10
40008	M4	16	50
MP40008	M4	16	10
40009	M4	20	50
MP40009	M4	20	10
40010	M4	25	50
MP40010	M4	25	10
Part No.	**Diameter**	**Length (mm)**	**Unit**
40011	M5	8	50
MP40011	M5	8	10
40012	M5	10	50
MP40012	M5	10	10
40013	M5	16	50

Part No.	Diameter	Length (mm)	Unit
MP40013	M5	16	10
40014	M5	20	50
MP40014	M5	20	10
40015	M5	25	25
MP40015	M5	25	10
40016	M5	30	25
Part No.	**Diameter**	**Length (mm)**	**Unit**
40017	M6	10	25
40018	M6	16	25
40019	M6	20	25
40020	M6	25	10
40021	M6	30	10
40022	M6	50	10

18-8 Metric Stainless Steel Threaded Rod

Canada Only



Part No.	Size	Thread Pitch	Length (Metres)	Unit
✦CD551276	M6	1.00	1	1
✦CD551352	M8	1.25	1	1
✦CD551414	M10	1.50	1	1
✦CD551467	M12	1.75	1	1

✦Canada only

Heli-Coil Thread Repair

Heli-Coil Coarse Thread Repair Kits



Each kit includes one tap, one mandrel tool and a quantity of inserts.

Kits

Part No.	Insert Size	Length	Inserts per Kit	Drill Size (In.)	Unit
22500	No. 8 - 32	.246	12	11/64	1
22501	No. 10 - 24	.285	12	13/64	1
¤22501-1	No. 12 - 24	.324	12	15/64	1
22502	No. 1/4 - 20	.375	12	17/64	1
22503	No. 5/16 - 18	.469	12	21/64	1
22504	No. 3/8 - 16	.562	12	25/64	1
22505	No. 7/16 - 14	.656	6	29/64	1
22506	No. 1/2 - 13	.750	6	17/32	1
22507	No. 9/16 - 12	.844	6	19/32	1
22508	No. 5/8 - 11	.938	6	21/32	1
22509	No. 3/4 - 10	1.125	4	25/32	1
¤22509-1†	No. 7/8 - 9	1.312	6	29/32	1

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Part No.	Insert Size	Length	Inserts per Kit	Drill Size (In.)	Unit
¤22509-2†	No. 1 - 8	1.500	6	1 1/32	1
¤22509-3†	No. 1 1/8 - 7	1.688	5	1 5/32	1
¤22509-4†	No. 1 1/4 - 7	1.875	4	1 9/32	1
¤22509-5†	No. 1 3/8 - 6	2.062	4	1 13/32	1
¤22509-6†	No. 1 1/2 - 6	2.250	4	1 17/32	1

Replacement Inserts

Part No.	Insert Size	Unit
22511	No. 8 - 32	12
22511-1	No. 10 - 24	12
¤22511-2	No. 12 - 24	1
22512	No. 1/4 - 20	12
22513	No. 5/16 - 18	12
22514	No. 3/8 - 16	12
22515	No. 7/16 - 14	6
22516	No. 1/2 - 13	6
22517	No. 9/16 - 12	6
22518	No. 5/8 - 11	6
22519	No. 3/4 - 10	4
¤22519-1	No. 7/8 - 9	1
¤22519-2	No. 1 - 8	1
¤22519-3	No. 1 1/8 - 7	1
¤22519-4	No. 1 1/4 - 7	1
¤22519-5	No. 1 3/8 - 6	1
¤22519-6	No. 1 1/2 - 6	1

Installation Tools

Part No.	Insert Size	Unit
¤22520	No. 8 - 32	1
22521	No. 10 - 24	1
¤22521-1	No. 12 - 24	1
22522	No. 1/4 - 20	1
22523	No. 5/16 - 18	1
22524	No. 3/8 - 16	1
22525	No. 7/16 - 14	1
22526	No. 1/2 - 13	1
22527	No. 9/16 - 12	1
22528	No. 5/8 - 11	1
22529	No. 3/4 - 10	1
¤22529-1	No. 7/8 - 9	1
¤22529-2	No. 1 - 8	1
¤22529-3	No. 1 1/8 - 7	1
¤22529-4	No. 1 1/4 - 7	1
¤22529-5	No. 1 3/8 - 6	1
¤22529-6	1 1/2 - 6	1

STI Taps

Part No.	Insert Size	Unit
¤22590-1	No. 8 - 32	1
22590-2	No. 10 - 24	1
¤22590-3	No. 12 - 24	1
22590	No. 1/4 - 20	1
22592	No. 5/16 - 18	1
22594	No. 3/8 - 16	1
22596	No. 7/16 - 14	1
22598	No. 1/2 - 13	1
22598-1	No. 9/16 - 12	1
22598-2	No. 5/8 - 11	1
22598-3	No. 3/4 - 10	1
¤22598-4	No. 7/8 - 9	1
¤22598-6	No. 1 - 8	1
¤22598-8	No. 1 1/8 - 7	1
¤22598-10	No. 1 1/4 - 7	1
¤22598-12	No. 1 3/8 - 6	1
¤22598-14	No. 1 1/2 - 6	1

†Kits come in a metal case with high speed drill for 1/2" chucks.

Heli-Coil Fine Thread Repair Kits



Each kit includes: one tap, one mandrel tool, and a quantity of inserts.

Kits

Part No.	Insert Size	Length (In.)	Inserts per Kit	Drill Size (In.)	Unit
22531	No. 10 -32	.285	12	13/64	1
22532	No. 1/4 -28	.375	12	17/64	1
22533	No. 5/16 -24	.469	12	21/64	1
22534	No. 3/8 -24	.562	12	25/64	1
22535	No. 7/16 -20	.656	6	29/64	1
22536	No. 1/2 -20	.750	6	33/64	1
22537	9/16 -18	.844	6	37/64	1
22538	5/8 -18	.938	6	41/64	1
22539	3/4 -16	1.125	4	49/64	1
¤22539-1†	7/8 -14	1.312	6	57/64	1
¤22539-2†	1 -14	1.500	6	1- 1/64	1
¤22539-3†	1 -12	1.500	6	1- 1/64	1
¤22539-4†	1 1/8 -12	1.688	5	1- 5/32	1
¤22539-5†	1 1/4 -12	1.875	4	1- 9/32	1
¤22539-6†	1 3/8 -12	2.062	4	1- 13/32	1
¤22539-7†	1 1/2 -12	2.250	4	1- 17/32	1

Replacement Inserts

Part No.	Insert Size	Unit
22541	No. 10 -32	12
22542	No. 1/4 -28	12
22543	No. 5/16 -24	12
22544	No. 3/8 -24	12
22545	No. 7/16 -20	6
22546	No. 1/2 -20	6
22547	No. 9/16 -18	6
22548	No. 5/8 -18	6
22549	No. 3/4 -16	4
¤22549-1	No. 7/8 -14	1
¤22549-2	No. 1 -14	1
¤22549-3	No. 1 -12	1
¤22549-4	No. 1 1/8 -12	1
¤22549-5	No. 1 1/4 -12	1
¤22549-6	No. 1 3/8 -12	1
¤22549-7	No. 1 1/2 -12	1

Installation Tools

Part No.	Insert Size	Unit
22551	No. 10 -32	1
22552	No. 1/4 -28	1
22553	No. 5/16 -24	1
22554	No. 3/8 -24	1
22555	No. 7/16 -20	1
22556	No. 1/2 -20	1
22557	No. 9/16 -18	1
22558	No. 5/8 -18	1
22559	No. 3/4 -16	1
¤22559-1	No. 7/8 -14	1
¤22559-2	No. 1 -14	1
¤22559-3	No. 1 -12	1
¤22559-4	No. 1 1/8 -12	1
¤22559-5	No. 1 1/4 -12	1
¤22559-6	No. 1 3/8 -12	1
¤22559-7	No. 1 1/2 -12	1

STI Taps

Part No.	Insert Size	Unit
22589	No. 10 -32	1
22591	No. 1/4 -28	1
22593	No. 5/16 -24	1
22595	No. 3/8 -24	1
22597	No. 7/16 -20	1
22599	No. 1/2 -20	1
¤22599-1	No. 9/16 -18	1
¤22599-2	No. 5/8 -18	1
¤22599-3	No. 3/4 -16	1
¤22599-5	No. 7/8 -14	1
¤22599-7	No. 1 -14	1
¤22599-9	No. 1 -12	1
¤22599-11	No. 1 1/8 -12	1
¤22599-13	No. 1 1/4 -12	1
¤22599-15	No. 1 3/8 -12	1
¤22599-17	No. 1 1/2 -12	1

Kits come in a metal case with high speed drill for 1/2" chucks.

Heli-Coil Metric Standard Thread Repair Kits



Each kit includes one tap, one mandrel tool, and a quantity of inserts.

Kits

Part No.	Insert Size	Length (mm)	Inserts per Kit	Drill Size (In.)	Unit
¤22560	M3 x 0.50	4.5	12	1/8	1
¤22560-1	M4 x 0.70	6.0	12	11/64	1
22561	M5 x 0.80	7.5	12	13/64	1
22562	M6 x 1.00	9.0	12	1/4	1
¤22562-1	M7 x 1.00	10.5	12	9/32	1
22563	M8 x 1.25	12.0	12	21/64	1
¤22563-1	M9 x 1.25	13.5	12	"U"	1
22564	M10 x 1.50	15.0	12	13/32	1
¤22564-1	M11 x 1.50	16.5	6	29/64	1
22565	M12 x 1.75	18.0	6	31/64	1
¤22565-1	M14 x 2.00	21.0	6	37/64	1
¤22565-2	M16 x 2.00	24.0	6	21/32	1
¤22565-3	M18 x 2.50	27.0	6	47/64	1
¤22565-4	M20 x 2.50	30.0	6	13/16	1

Replacement Inserts

Part No.	Insert Size	Unit
¤22570	M3 x 0.50	1
¤22570-1	M4 x 0.70	1
22571	M5 x 0.80	12
22572	M6 x 1.00	12
¤22572-1	M7 x 1.00	1
22573	M8 x 1.25	12
¤22573-1	M9 x 1.25	1

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Thread Repair Inserts

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Part No.	Insert Size	Unit
22574	M10 x 1.50	12
¤22574-1	M11 x 1.50	1
22575	M12 x 1.75	6
¤22575-1	M14 x 2.00	1
¤22575-2	M16 x 2.00	1
¤22575-3	M18 x 2.50	1
¤22575-4	M20 x 2.50	1

Installation Tools

Part No.	Insert Size	Unit
¤22569	M3 x 0.50	1
¤22569-1	M4 x 0.70	1
¤22569-2	M5 x 0.80	1
22569-3	M6 x 1.00	1
¤22569-4	M7 x 1.00	1
22569-5	M8 x 1.25	1
¤22569-6	M9 x 1.25	1
22569-7	M10 x 1.50	1
¤22569-8	M11 x 1.50	1
22569-9	M12 x 1.75	1
¤22569-10	M14 x 2.00	1
¤22569-11	M16 x 2.00	1
¤22569-12	M18 x 2.50	1
¤22569-13	M20 x 2.50	1

Taps

Part No.	Insert Size	Unit
¤22585-3	M3 x 0.50	1
¤22585-4	M4 x 0.70	1
¤22585-5	M5 x 0.80	1
22442-6	M6 x 1.00	1
¤22585-7	M7 x 1.00	1
22442-8	M8 x 1.25	1
¤22585-9	M9 x 1.25	1
22442-10	M10 x 1.50	1
¤22585-11	M11 x 1.50	1
22442-12	M12 x 1.75	1
¤22585-14	M14 x 2.00	1
¤22585-16	M16 x 2.00	1
¤22585-18	M18 x 2.50	1
¤22585-20	M20 x 2.50	1

Heli-Coil Metric Fine Thread Repair Kits



Each kit includes one tap, one mandrel tool and a quantity of inserts.

Kits

Part No.	Insert Size	Length (mm)	Inserts per Kit	Drill Size (In.)	Unit
¤22566	M8 x 1.00	8.0	12	21/64	1
¤22566-1	M10 x 1.00	15.0	12	13/32	1
¤22566-2	M11 x 1.00	11.0	6	7/16	1
¤22566-3	M10 x 1.25	15.0	12	13/32	1
¤22566-4	M11 x 1.25	16.5	6	29/64	1
¤22566-5	M12 x 1.50	18.0	6	31/64	1
¤22566-6	M14 x 1.50	21.0	6	9/16	1
¤22566-7	M16 x 1.50	24.0	6	21/32	1

Replacement Inserts

Part No.	Insert Size	Unit
¤22568	M8 x 1.00	1
¤22568-1	M10 x 1.00	1
¤22568-2	M11 x 1.00	1
¤22568-3	M10 x 1.25	1
¤22568-4	M11 x 1.25	1
¤22568-5	M12 x 1.50	1
¤22568-6	M14 x 1.50	1
¤22568-7	M16 x 1.50	1

Installation Tools

Part No.	Insert Size	Unit
¤22567	M8 x 1.00	1
¤22567-1	M10 x 1.00	1
¤22567-2	M11 x 1.00	1
¤22567-3	M10 x 1.25	1
¤22567-4	M11 x 1.25	1
¤22567-5	M12 x 1.50	1
¤22567-6	M14 x 1.50	1
¤22567-7	M16 x 1.50	1

STI Taps

Part No.	Insert Size	Unit
¤22465-8	M8 x 1.00	1
¤22465-10	M10 x 1.00	1
¤22465-11	M11 x 1.00	1
¤22466-10	M10 x 1.25	1
¤22466-11	M11 x 1.25	1
¤22467-12	M12 x 1.50	1
¤22467-14	M14 x 1.50	1
¤22467-16	M16 x 1.50	1

Heli-Coil Spark Plug Repair Inserts



Part No.	Size	Reach	Length (mm)	Unit
22581	M14 x 1.25	Short	14	2
22582	M14 x 1.25	Normal	21	2
22583	M14 x 1.25	Long	28	2

Heli-Coil Sav-A-Thread Spark Plug Repair Kit



- For M14 x 1.25
- Repair kit contains a piloted tap (no drilling necessary), an expanding tool and three inserts: short, normal, and long reaches

Part No.	Description	Unit
22580	Heli-Coil Sav-A-Thread Spark Plug Repair Kit	1

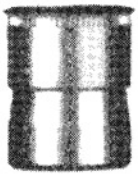
NOTE: Some automotive models cannot use this style Heli-Coil. Refer to the manufacturers information for recommendations.

Non-Grip Sensitive Inserts

Non-Grip-Sensitive Threaded Inserts

- Steel (C-1110)
- Blind installation
- High resistance to torque-out
- Permits flush mounting
- Vibration resistant
- Self-tightening with reuse
- Zinc plated

Hand Tool: Part No. 45040 The Hi-Torquer Manual Placing Tool



Inch Series

Part No.	Thread Size	Grip Range (In.)	Hole Size (In.)	Recommended Drill Part No.	Unit
45230	No. 4-40	≥.030	3/16" (.1875)	20908	100
MP45230	No. 4-40	≥.030	3/16" (.1875)	20908	50
45231	No. 6-32	≥.030	7/32" (.21875)	20910	100
MP45231	No. 6-32	≥.030	7/32" (.21875)	20910	50
45232	No. 8-32	≥.030	1/4" (.2495)	20912	100
MP45232	No. 8-32	≥.030	1/4" (.2495)	20912	50
45233	No. 10-24	≥.030	9/32" (.2805)	20914	100
MP45233	No. 10-24	≥.030	9/32" (.2805)	20914	50
45234	No. 10-32	≥.030	9/32" (.2805)	20914	100
MP45234	No. 10-32	≥.030	9/32" (.2805)	20914	50
KP75552	No. 12-24	≥.030	3/8" (.3745)	20920	50
45235	1/4"-20	≥.030	3/8" (.3745)	20920	50
MP45235	1/4"-20	≥.030	3/8" (.3745)	20920	25
C87590†	No. 10-32	≥.030	9/32" (.2805)	20914	10
45236	1/4"-28	≥.030	3/8" (.3745)	20920	50
MP45236	1/4"-28	≥.030	3/8" (.3745)	20920	25
45237	5/16"-18	≥.030	1/2" (.4995)	20928	25
MP45237	5/16"-18	≥.030	1/2" (.4995)	20928	10

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Part No.	Thread Size	Grip Range (In.)	Hole Size (In.)	Recommended Drill Part No.	Unit
45238	5/16"-24	≥.030	1/2" (.4995)	20928	25
MP45238	5/16"-24	≥.030	1/2" (.4995)	20928	10
45239	3/8"-16	≥.030	9/16" (.5615)	20952*	25
MP45239	3/8"-16	≥.030	9/16" (.5615)	20952*	10

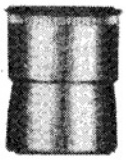
*1/2" Reduced Shank
Use with Conversion Kit Part Nos. 45330 thru 45340
†Aluminum

Metric Series

Part No.	Thread Size	Grip Range (In.)	Hose Size (mm)	Recommended Drill Part No.	Unit
45250	M3 x .05	≥.030	4.75	20908	100
45251	M4 x 0.7	≥.030	5.55	20910	100
45252	M5 x 0.8	≥.030	7.12	20914	100
45253	M6 x 1.0	≥.030	9.50	20920	50
45254	M8 x 1.25	≥.030	12.70	20928	25
45255	M10 x 1.5	≥.030	14.25	20952*	25

*1/2" Reduced Shank
Use with Conversion Kit Part Nos. 45350 thru 45355
*The suggested hole size works well in softer materials but may have to be enlarged in certain types of plastic to prevent splitting and in hard materials to allow nuts to pull up into into the sleeve. It is recommended that the inserts be tested in the application before finalizing the hole size.
NOTE: Internal threads are manufactured oversize due to the mechanical function of the inserts and are not gaugable before or after installation. However, they are always compatible with Class 2 bolts.

Metric Stainless Steel Non-Grip Sensitive Threaded Inserts



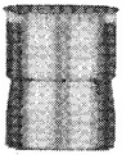
- 304 stainless steel
- High torque-out values
- Vibration resistant
- Blind installation
- Permits flush mounting
- Self-tightening with reuse
- Use installation tool part no. 45040
- Passivated cadmium coated

Part No.	Thread Size	Grip Range (In.)	Hole Size (mm)
45314	M8 x 1.25	≥.030	12.70
45315	M10 x 1.5	≥.030	14.75

Part No.	Recommended Drill Bit Part No.	Conversion Kit Part No.	Unit
45314	20928	45354	5
45315	2095220952	45355	5

† 1/2" reduced shank
Note: Conversion kits in the Miscellaneous Fasteners section

Stainless Steel (18-8) Non-Grip Sensitive Threaded Inserts



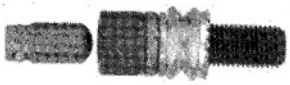
- 304 stainless steel
- Passivated zinc plated
- High torque-out valves
- Vibration resistant
- Blind installation
- Permits flush mounting
- Self-tightening with reuse
- Use installation tool part no. 45040

Part No.	Thread Size (In.)	Grip Range (In.)	Hole Size (In.)	Unit
45291	No. 6-32	>=.030	7/32 (.21875)	10
45292	No. 8-32	>=.030	1/4 (.2495)	10
45294	No. 10-32	>=.030	9/32 (.2805)	10
45295	1/4-20	>=.030	3/8 (.3745)	10
45296	1/4-28	>=.030	3/8 (.3745)	10
45298	5/16-24	>=.030	1/2 (.4995)	5
45299	3/8-16	>=.030	9/16 (.5615)	5
45300	3/8-24	>=.030	9/16 (.5615)	5

Part No.	Recommended Drill Bit Part No.	Conversion Kit Part No.
45291	20910	45331
45292	20912	45332
45294	20914	45334
45295	20920	45335
45296	20920	45336
45298	20928	45338
45299	20952†	45339
45300	20952†	45340

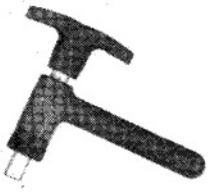
NOTE: Inch series threads are Class 2B.
† 1/2" Reduced Shank

Conversion Kits
Non-Grip Sensitive Threaded Inserts



Part No.	Thread Size	Unit
45330	No. 4-40	1
45331	No. 6-32	1
45332	No. 8-32	1
45333	No. 10-24	1
45334	No. 10-32	1
KP73248	No. 12-24	1
45335	1/4-20	1
45336	1/4-28	1
45337	5/16-18	1
45338	5/16-24	1
45339	3/8-16	1
45340	3/8-24	1
45350	M3 x 0.5	1
45351	M4 x 0.7	1
45352	M5 x 0.8	1
45353	M6 x 1.0	1
45354	M8 x 1.25	1
45355	M10 x 1.5	1

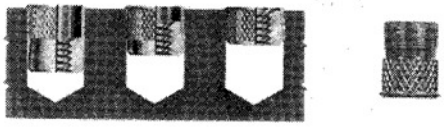
The Hi-Torquer Manual Placing Tool
Non-Grip Sensitive Threaded Inserts



- Quick release ratchet allows fast change to different thread sizes
- No extra tools needed
- For installing non-grip-sensitive inserts
- Use with thread conversion kits — nos. 45330-45355

Part No.	Description	Unit
45040	The Hi-Torquer Manual Placing Tool	1

Knurled Non-Grip-Sensitive Threaded Inserts



- The diamond knurl makes the insert ideal for soft material applications, such as plastics, fiberglass, wood, structural foam, aluminum, etc.
- Can be used in thinner materials where the shallowest insert protrusion on the backside is desired
- High torque-out values
- High pull-out values
- Blind installation
- Installation will not mar parent material
- Ideal for high-speed production
- Wear-resistant threads
- Nearly flush installation; only .015 protrusion
- Install after painting
- Use in standard drilled holes
- Steel (C-1010/C-1110)
- Cadmium plated
- How it works: The installation tool pulls the "cone" shaped nut into the sleeve, expanding the "Diamond Knurt" into the parent material. This locks it in place and gives very high torque-out resistance and pull-out values.

Inch Series (Knurled for Soft Materials)

Part No.	Thread Size (In.)	*Hole Size (In.)	Min. Hole Depth (In.)	Unit
43050	No. 6-32	15/64 (.234)	.40	100
MP43050	No. 6-32	15/64 (.234)	.40	50
43051	No. 8-32	17/64 (.266)	.40	100
MP43051	No. 8-32	17/64 (.266)	.40	50
43052	No. 10-24	19/64 (.297)	.40	100
MP43052	No. 10-24	19/64 (.297)	.40	50
43053	No. 10-32	19/64 (.297)	.40	100
MP43053	No. 10-32	19/64 (.297)	.40	50
43054	1/4-20	25/64 (.391)	.54	50
MP43054	1/4-20	25/64 (.391)	.54	25
43055	1/4-28	25/64 (.391)	.54	50
MP43055	1/4-28	25/64 (.391)	.54	25
43056	5/16-18	17/32 (.531)	.64	25
MP43056	5/16-18	17/32 (.531)	.64	10
43057	5/16-24	17/32 (.531)	.64	25
MP43057	5/16-24	17/32 (.531)	.64	10

Continued on next page

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Thread Repair Inserts

Continued from previous page

Part No.	Thread Size (In.)	*Hole Size (In.)	Min. Hole Depth (In.)	Unit
43058	3/8-16	19/32 (.594)	.77	25
MP43058	3/8-16	19/32 (.594)	.77	10
43059	3/8-24	19/32 (.594)	.77	25
MP43059	3/8-24	19/32 (.594)	.77	10

Use with Conversion Kit Part Nos. 45330 thru 45340

Metric Series (Knurled for Soft Material)

Part No.	Thread Size (mm)	*Hole Size (mm)	Min. Hole Depth (mm)	Unit
43060	M4 x .7	6.75	10.16	100
43061	M5 x .8	7.54	10.16	100
43062	M6 x 1.0	9.92	13.72	50
43063	M8 x 1.25	13.49	16.26	25

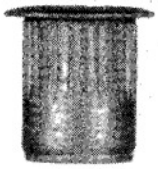
Use with Conversion Kit Part Nos. 45350 thru 45355

*The suggested hole size works well in softer materials but may have to be enlarged in certain types of plastic to prevent splitting and in hard materials to allow nuts to pull up into the sleeve. It is recommended that the inserts be tested in the application before finalizing the hole size.

NOTE: Internal threads are manufactured oversize due to the mechanical function of the inserts and are not gaugable before or after installation. However, they are always compatible with Class 2 bolts.

Grip Sensitive Inserts

Grip-Sensitive Threaded Inserts



- Useable in oversize and irregular holes
- High torque-out values
- Self-tightening with reuse
- Zinc plated
- High pull-out values
- Steel (C-1010/C-1008)
- Permits flush mounting
- Blind installation

Hand Tool: Part No. 45045, Plier Type Hand Tool

Inch Series

Part No.	Thread Size (In.)	Grip Range (In.)	Hole Size (In.)	Recommended Drill Part No.	Unit
45200	No. 6-32	.020 -.080	17/64	20913	100
45201	No. 8-32	.020 -.080	17/64	20913	100
45202	No. 10-24	.020 -.130	19/64	20915	100
45203	No. 10-32	.020 -.130	19/64	20915	100
45204	1/4-20	.027 -.165	25/64	20921	50
45205	1/4 -28	.027 -.165	25/64	20921	50
45206	5/16-18	.027 -.150	17/32	20951*	25
45207	5/16-24	.027 -.150	17/32	20951*	25
45208	3/8-16	.027 -.150	17/32	20951*	25
45209	3/8-24	.017 -.150	17/32	20951*	25

NOTE: Inch series threads are Class 2B

*1/2" Reduced shank

Use Conversion Kit Part Nos. 45300-1 through 45309

Metric Series

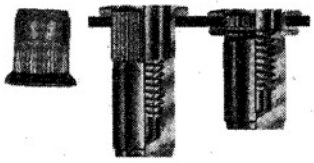
Part No.	Thread Size	Grip Range (In.)	Hole Size (mm)	Recommended Drill Part No.	Unit
45220	M4 x 0.7	.500 - 2.0	6.8	20870-H	100
45221	M5 x 0.8	.500 - 3.3	7.6	20915	100
45222	M6 x 1.0	.700 - 4.2	10.0	20921	50
45223	M8 x 1.25	.700 - 3.8	13.5	20951*	25
45224	M10 x 1.5	.700 - 3.8	13.5	20951*	25

NOTE: Metric series threads are Class 6H

*1/2" Reduced Shank

Use conversion Kit Part Nos. 45320 through 45324

Sealed Grip-Sensitive Threaded Inserts



- Rubberized seal under the head
- Useable in oversize and irregular holes
- Sealed head prevents moisture and water seapage
- High torque-out values resist spinning due to cross threading or overtightening
- High pull-out values — very hard to pull through materials due to the "bubble" on the backside
- Wide grip range
- One length does the job of numerous other inserts
- Blind installation
- Steel (C-1010/C-1008)
- Permits flush mounting
- Zinc Plated
- Applications:
  - -Luggage racks for car and van roof tops
  - -Ski racks or devorative trip for deck lids
  - -Other applications where weather proofing is required
- How it works: The installation tool reforms the insert and locks it in place above and below the parent material giving very high torque-out resistance and pull-out values

Inch Series

Part No.	Thread Size	Grip Range (In.)	Hole Size	Unit
43020	No. 6-32	.020 - .080	17/64 (.2656)	100
MP43020	No. 6-32	.020 - .080	17/64 (.2656)	50
43021	No. 8-32	.020 - .080	17/64 (.2656)	100
MP43021	No. 8-32	.020 - .080	17/64 (.2656)	50
43022	No. 10-24	.020 - .130	19/64 (.2969)	100
MP43022	No. 10-24	.020 - .130	19/64 (.2969)	50
43023	No. 10-32	.020 - .130	19/64 (.2969)	100
MP43023	No. 10-32	.020 - .130	19/64 (.2969)	50
43024	1/4-20	.027 - .165	25/64 (.3906)	50
MP43024	1/4-20	.027 - .165	25/64 (.3906)	25
43025	1/4-28	.027 - .165	17/32 (.5312)	50
MP43025	1/4-28	.027 - .165	17/32 (.5312)	25
43026	5/16-18	.027 - .150	17/32 (.5312)	25
MP43026	5/16-18	.027 - .150	17/32 (.5312)	10
43027	5/16-24	.027 - .150	17/32 (.5312)	25
MP43027	5/16-24	.027 - .150	17/32 (.5312)	10
43028	3/8-16	.027 - .150	17/32 (.5312)	25
MP43028	3/8-16	.027 - .150	17/32 (.5312)	10
43029	3/8-24	.027 - .150	17/32 (.5312)	25
MP43029	3/8-24	.027 - .150	17/32 (.5312)	10

NOTE: Inch series threads are class 2B.

Use conversion Kit Part Nos. 45300-1 through 45309

Metric Series

Part No.	Thread Size	Grip Range (mm)	Hole Size	Unit
43030	M4 x .7	.50 - 2.0	608	100
MP43030	M4 X .7	.50-2.0	608	50
43031	M5 x .8	.50 - 3.3	706	100
MP43031	M5 X .8	.50-3.3	706	50
43032	M6 x 1.0	.70 - 4.2	10.0	50
MP43032	M6 X 1.0	.70-4.2	10.0	25
43033	M8 x 1.25	.70 - 3.8	13.5	25
MP43033	M8 X 1.25	.70-3.8	13.5	10
43034	M10 x 1.5	.70 - 3.8	13.5	25
MP43034	M10 X 1.5	.70-3.8	13.5	10

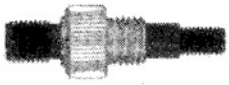
NOTE: Metric series threads are class 6H.

Use conversion Kit Part Nos. 45320 through 45324

NOTE: The sealing material slightly reduces the maximum grip. Test a sample part in your application if your grip is approximately 80% or more of the maximum inert grip.

Conversion Kits

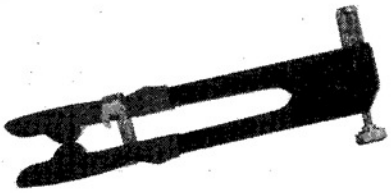
Grip Sensitive Threaded Inserts



Part No.	Insert Thread Size	Unit
KP73225	No. 4-40	1
45300-1	No. 6-32	1
45301	No. 8-32	1
45302	No. 10-24	1
45303	No. 10-32	1
45304	1/4-20	1
45305	1/4-28	1
45306	5/16-18	1
45307	5/16-24	1
45308	3/8-16	1
45309	3/8-24	1
45320	M4 x 0.7	1
45321	M5 x 0.8	1
45322	M6 x 1.0	1
45323	M8 x 1.25	1
45324	M10 x 1.5	1

"Plier"-Type Hand Tool

Grip Sensitive Threaded Inserts



- Steel construction
- Lever action handle
- For installing grip sensitive inserts
- Use with thread conversion kits — nos. 45300-1 - 45324

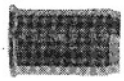
Part No.	Description	Unit
45045	"Plier" Type Hand Tool	1

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Grip Sensitive Threaded Inserts



- Reduced profile head design
- Use in applications that require a smaller hole or closer hole to edge tolerances
- Zinc plated steel
- Permits flush mounting
- Blind installation

Part No.	Thread Size	Grip Ranges (In.)	Hole Size (In.)	Dril Part No.	Unit
KP70532	6-32	.020 - .080	¼	20912	100
KP70533	8-32	.020 - .080	¼	20912	100
KP70534	10-24	.020 - .130	9/32	20914	100
KP70535	10-32	.020 - .130	9/32	20914	100
KP70536	¼-20	.030 - .165	⅜	20920	50
KP73245	5/16-18	.040 - .200	½	20928	50

Thread-N-Lock Inserts

Thread-N-Lock Inserts - Fractional



These convenient fastener inserts can be fastened in minutes without any special tools. Just apply some Loctite® adhesive and the automatic, self-locking external threads will begin to set immediately. They will not back out, vibrate or come loose under normal use, but you can remove them easily with a standard screw or bolt extractor. The adhesive seals against liquids and gases to pressures of 6000 psi and will bond to almost every metal. Ideal for stripped threads, parts salvage, and hundreds of other applications.

To install:

1. Thread nut onto cap screw. Thread screw into insert and tighten nut.
2. Drill into damaged threads to make an oversized hole.
3. Tap hole with standard tap.
4. Place insert assembly into tapped hole, tighten with wrench.

UNC Part No.	Internal Thread (In.)	UNF Part No.	Internal Thread (In.)	External Thread (In.)	Unit
KP36392	4-40	*	-	10-32	10
KP36393	6-32	*	-	¼-20	10
C690600	8-32	*	-	5/16-18	10
C690602	10-24	C690603	10-32	⅜-16	10
C690604	¼-20	C690605	¼-28	7/16-14	10
C690606	5/16-18	C690607	5/16-24	½-13	10
C690608	⅜-16	C690609	⅜-24	9/16-12	10
C690610	7/16-14	C690611	7/16-20	⅝-11	5
C690612	½-13	C690613	½-20	¾-10	5
C690614	9/16-12	*	-	¾-10	5
C690616	⅝-11	C690617	⅝-18	⅞-9	5
C690618	¾-10	C690619	¾-16	1-8	5
C690620	⅞-9	C690621	⅞-14	1¼-7	3
C690622	1-8	C690623	1-14	1⅜-12	2

Thread-N-Lock Installation Specifications

UNC Part No.	UNF Part No.	Insert Length (In.)	Drill Size (In.)	Tap Size (In.)
KP36392	*	.250	5/32	10-32
KP36393	*	.280	7	¼-20
C690600	*	.290	F	5/16-18
C690602	C690603	.406	5/16	⅜-16
C690604	C690605	.437	23/64	7/16-14
C690606	C690607	.484	27/64	½-13
C690608	C690609	.515	31/64	9/16-12
C690610	C690611	.656	17/32	⅝-11
C690612	C690613	.656	21/32	¾-10
C690614	*	.656	21/32	¾-10
C690616	C690617	.687	49/64	⅞-9
C690618	C690619	.781	⅞	1-8
C690620	C690621	1.125	1 7/64	1¼-7
C690622	C690623	1.250	1 9/32	1⅜-12

Thread-N-Lock Inserts-Stainless Steel



- Ideal for areas subject to moisture and corrosion problems

Part No.	Dia. x Thread	External Thread	Unit
KP38208	8-32	5/16-18	10
KP38209	10-24	⅜-16	10
KP38210	¼-20	7/16-14	5
KP38211	5/16-18	½-13	5
KP38212	⅜-16	9/16-12	5
KP38213	7/16-14	⅝-11	5
KP38214	½-13	¾-10	2
KP38215	⅝-11	⅞-9	2
KP38216	¾-10	1-8	2

Thread-N-Lock Installation Specifications

Part No.	Insert Length	Drill Size	Tap Size
KP38208	.290	F	5/16-18
KP38209	.406	5/16	⅜-16
KP38210	.437	23/64	7/16-14
KP38211	.484	27/64	½-13
KP38212	.515	31/64	9/16-12
KP38213	.656	17/32	⅝-11
KP38214	.656	21/32	¾-10
KP38215	.687	49/64	⅞-9
KP38216	.781	⅞	1-8

Thread-N-Lock Inserts-Metric



- Metric Internal Threads

Part No.	Dia. X Thread	External Thread	Unit
KP36417	M6 X 1.00	⅜-16	10
KP36418	M8 X 1.25	½-13	10
KP36419	M10 X 1.50	9/16-12	5
KP36420	M10 X 1.25	9/16-12	5
KP36421	M12 X 1.75	¾-10	2
KP36422	M14 X 2.00	⅞-9	2
KP36423	M16 X 2.00	1-8	2

Thread-N-Lock Installation Specifications

Part No.	Insert Length	Drill Size	Tap Size
KP36417	.406	5/16	⅜-16
KP36418	.484	27/64	½-13
KP36419	.515	31/64	9/16-12
KP36420	.515	31/64	9/16-12
KP36421	.656	21/32	¾-10
KP36422	.687	49/64	⅞-9
KP36423	.781	⅞	1-8

Thread-N-Lock Power Drive Tool



- Provides a quick and convenient way to install Thread-N-Lock inserts
- Ideal for high volume installations

Part No.	Installs Fractional Sizes	Installs Metric Sizes	Unit
KP38371	No. 8		1
KP38372	No. 10		1
KP38373	¼	M6	1
KP38374	5/16	M8	1
KP38375	⅜	M10	1
KP38376	7/16	M12	1
KP38377	½, 9/16	M14	1
KP38378	⅝	M16	1
KP38379	¾		1

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Keyserts

KEY-SERT INSTALLATION INSTRUCTIONS



1. USE STANDARD DRILL to drill out damaged threads. Then, countersink with a standard countersink



2. USE STANDARD TAP to thread new hole. Do not use standard tap chart—use insert chart in this section



3. Screw in INSERT. Kees automatically stop the insert at its correct location

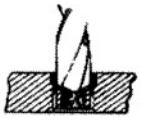


4. Drive locking KEES down with light taps on tool

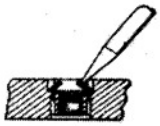


5. IT'S FIXED... THAT EASY!

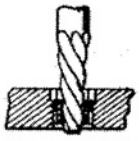
REMOVAL INSTRUCTIONS



1. USE STANDARD DRILL to remove insert material between KEES.



2. Deflect KEES inward and break off.



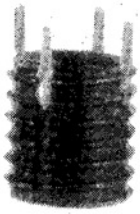
3. Remove insert with E-Z OUT type tool.



4. An identical insert can now be installed in the original hole.



Thinwall & Metric Keysert®



- Strong, permanent, metal thread-repair insert
- Made of carbon steel

UNC (USS) Inserts

Part No.	Internal Thread Size (In.)	External Thread Size (In.)	Length (In.)	Unit
22601	No. 10 - 24	5/16 - 18	0.31	20
22602	1/4 - 20	3/8 - 16	0.37	20
22603	5/16 - 18	7/16 - 14	0.43	20
22604	3/8 - 16	1/2 - 13	0.50	20
22605	7/16 - 14	9/16 - 12	0.56	10
22606	1/2 - 13	5/8 - 11	0.62	10

Installation Data

Part No.	Insert Tool Part No.	Internal Thread Size (In.)	Drill Size (In.)	C' Sink Dia. (In.)	Tap Size (In.)
22601	22600-3/16	No. 10 - 24	I	0.32	5/16-18
22602	22600-1/4	1/4 - 20	Q	0.38	3/8-16
22603	22600-5/16	5/16 - 18	X	0.44	7/16-14
22604	22600-3/8	3/8 - 16	29/64	0.51	1/2-13
22605	22600-7/16	7/16 - 14	33/64	0.57	9/16-12
22606	22600-1/2	1/2 - 13	37/64	0.63	5/8-11

UNF (SAE) Inserts

Part No.	Internal Thread Size (In.)	External Thread Size (In.)	Length (In.)	Unit
22611	No. 10 - 32	5/16 - 18	0.31	20
22612	1/4 - 28	3/8 - 16	0.37	20
22613	5/16 - 24	7/16 - 14	0.43	20
22614	3/8 - 24	1/2 - 13	0.50	20
22615	7/16 - 20	9/16 - 12	0.56	10
22616	1/2 - 20	5/8 - 11	0.62	10

Installation Data

Part No.	Insert Tool Part No.	Internal Thread Size (In.)	Drill Dia. (In.)	C' Sink Dia. (In.)	Tap Size (In.)
22611	22600-3/16	No. 10 - 32	"I"	0.32	5/16-18
22612	22600-1/4	1/4 - 28	"Q"	0.38	3/8-16
22613	22600-5/16	5/16 - 24	"X"	0.44	7/16-14
22614	22600-3/8	3/8 - 24	29/64	0.51	1/2-13
22615	22600-7/16	7/16 - 20	33/64	0.57	9/16-12
22616	22600-1/2	1/2 - 20	37/64	0.63	5/8-11

Metric Inserts

Part No.	Internal Thread Size (In.)	External Thread Size (In.)	Length (In.)	Unit
22672	M5 x 0.80	M8 x 1.25	0.315	20
22673	M6 x 1.00	M10 x 1.25	0.394	20
22676	M8 x 1.25	M12 x 1.25	0.472	20
KP6056	M8 X 1.00	M12 X 1.25	0.472	20
22678	M10 x 1.50	M14 x 1.50	0.551	10
KP6058	M10 X 1.25	M14 X 1.50	0.551	15
22680	M12 x 1.75	M16 x 1.50	0.630	10

Installation Data

Part No.	Insert Tool Part No.	Internal Thread Size (In.)	Drill Dia. (In.)	C' Sink Dia. (In.)	Tap Size (In.)
22672	—	M5 x 0.80	"H"	0.32	M8 x 1.25
22673	22670-6	M6 x 1.00	"S"	0.40	M10 x 1.25
22676	22670-8	M8 x 1.25	27/64	0.32	M12 x 1.25
22678	22670-10	M10 x 1.50	1/2	0.56	M14 x 1.50
22680	22670-12	M12 x 1.75	37/64	0.63	M16 x 1.50

Heavy-Duty Keyserts®



- Solid carbon steel bushing
- Uses standard tools
- Use where higher strength and resistance is required

Continued on next page

GRAYSON INDUSTRIES, INC.

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UNC (USS) Inserts

Part No.	Internal Thread Size (In.)	External Thread Size (In.)	Length (In.)	Unit
22620	No. 8 - 32	5/16 - 18	0.31	25
22621	No. 10 - 24	3/8 - 16	0.31	25
22622	1/4 - 20	7/16 - 14	0.37	20
22623	5/16 - 18	1/2 - 13	0.43	20
22624	3/8 - 16	9/16 - 12	0.50	20
22625	7/16 - 14	5/8 - 11	0.62	10
22626	1/2 - 13	3/4 - 16	0.62	10
22627	9/16 - 12	3/4 - 16	0.81	5
22628	5/8 - 11	7/8 - 14	0.87	5
22629	3/4 - 10	1 1/8 - 12	1.12	5
22630	7/8 - 9	1 1/4 - 12	1.25	3
22631	1 - 8	1 3/8 - 12	1.37	3

Installation Data

Part No.	Insert Tool Part No.	Internal Thread Size (In.)	C' Sink Dia. (In.)	Tap Size (In.)	Drill Dia. (In.)
22620	22619-8	No. 8 - 32	0.32	5/16 - 18	"I"
22621	22619-10	No. 10 - 24	0.38	3/8 - 16	"Q"
22622	22619-1/4	1/4 - 20	0.44	7/16 - 14	"X"
22623	22619-5/16	5/16 - 18	0.51	1/2 - 13	29/64
22624	22619-3/8	3/8 - 16	0.57	9/16 - 12	33/64
22625	22619-7/16	7/16 - 14	0.63	5/8 - 11	37/64
22626	22619-1/2	1/2 - 13	0.76	3/4 - 16	45/64
22627	22619-9/16	9/16 - 12	0.76	3/4 - 16	45/64
22628	22619-5/8	5/8 - 11	0.88	7/8 - 14	53/64
22629	22619-3/4	3/4 - 10	1.14	1 1/8 - 12	1 1/16
22630	22619-7/8	7/8 - 9	1.27	1 1/4 - 12	1 3/16
22631	22619-1	1 - 8	1.39	1 3/8 - 12	1 5/16

UNF (SAE) Inserts

Part No.	Internal Thread Size (In.)	External Thread Size (In.)	Length (In.)	Unit
22641	No. 10 - 32	3/8 - 16	0.31	25
22642	1/4 - 28	7/16 - 14	0.37	20
22643	5/16 - 24	1/2 - 13	0.43	20
22644	3/8 - 24	9/16 - 12	0.50	20
22645	7/16 - 20	5/8 - 11	0.62	10
22646	1/2 - 20	3/4 - 16	0.62	10
22647	9/16 - 18	3/4 - 16	0.81	5
22648	5/8 - 18	7/8 - 14	0.87	5
22649	3/4 - 16	1 1/8 - 12	1.12	5
22650	7/8 - 14	1 1/4 - 12	1.25	3
22651	1 - 14	1 3/8 - 12	1.37	3

Installation Data

Part No.	Insert Tool Part No.	Internal Thread Size (In.)	C' Sink Dia. (In.)	Tap Size (In.)	Drill Dia. (In.)
22641	22619-10	No. 10 - 32	0.38	3/8 - 16	"Q"
22642	22619-1/4	1/4 - 28	0.44	7/16 - 14	"X"
22643	22619-5/16	5/16 - 24	0.51	1/2 - 13	29/64
22644	22619-3/8	3/8 - 24	0.57	9/16 - 12	33/64
22645	22619-7/16	7/16 - 20	0.63	5/8 - 11	37/64
22646	22619-1/2	1/2 - 20	0.76	3/4 - 16	45/64
22647	22619-9/16	9/16 - 18	0.76	3/4 - 16	45/64
22648	22619-5/8	5/8 - 18	0.88	7/8 - 14	53/64
22649	22619-3/4	3/4 - 16	1.14	1 1/8 - 12	1 1/16
22650	22619-7/8	7/8 - 14	1.27	1 1/4 - 12	1 3/16
22651	22619-1	1 - 14	1.39	1 3/8 - 12	1 5/16

Keysert® Installation Tools
Multi-Pin Style



- Steel construction

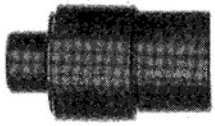
Standard-Duty

Part No.	Fits Part No.	Unit
22600-3/16	22601 & 22611	1
22600-1/4	22602 & 22612	1
22600-5/16	22603 & 22613	1
22600-3/8	22604 & 22614	1
22600-7/16	22605 & 22615	1
22600-1/2	22606 & 22616	1

Standard-Duty Kits

Part No.	Sizes in Kit* (In.)	Unit
22600	1/4, 5/16, 3/8, 7/16, 1/2	1 Kit
22619	9/16, 5/8, 3/4, 7/8, 1	1 Kit

*Kits contain 1 of each size listed



Heavy Duty

Part No.	Fits Part No.	Unit
22619-8	22620	1
22619-10	22621 & 22641	1
22619-1/4	22622 & 22642	1
22619-5/16	22623 & 22643	1
22619-3/8	22624 & 22644	1
22619-7/16	22625 & 22645	1
22619-1/2	22626 & 22646	1
22619-9/16	22627 & 22647	1
22619-5/8	22628 & 22648	1
22619-3/4	22629 & 22649	1
22619-7/8	22630 & 22650	1
22619-1	22631 & 22651	1



Metric Standard Duty

Part No.	Fits Part No.	Unit
22670-6	22673	1
22670-8	22676	1
22670-10	22678	1
22670-12	22680	1

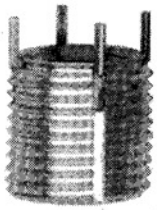
Keysert® Installation Tools
Single Pin Style



- Steel construction
- Set each Keysert individually

Part No.	Sizes in Kit* (In.)	Unit
22600-T	No. 10 — 5/16" M5 — M12	3
22619-T	5/8" — 1 1/2"	3

Spark Plug Repair Type Keysert®, Accessories & Installation Tools



- High-strength aluminum alloy

Part No.	Spark Plug Size	Installation Data: Length (In.)	Drill Dia. (In.)	Tap Size (In.)	Unit
22660	M14 x 1.25	3/8	45/64	3/4-16	10
22661	M14 x 1.25	7/16	45/64	3/4-16	10

Threading Tap

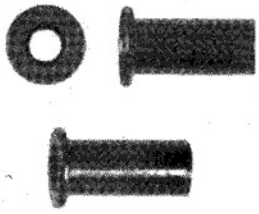


- Steel construction
- 3/4"-16
- For use with spark plug Keysert®

Part No.	Description	Unit
20763	Threading Tap	1

Rivet Nuts

Rivet Nuts



- Grip sensitive, flat head
- Low carbon steel
- Cadmium plated
- For use in blind or through applications
- High thread strength

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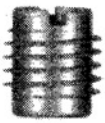
Part No.	Grip Range (In.)	Thread Size	Hole Size	Drill Dia.	Unit
KP80173	.010 -.075	6-32	.189	#12	25
KP80174	.010 -.075	8-32	.221	#2	25
KP80175	.010 -.080	10-24	.250	¼	25
45150	.080-.130	10-24	.250	¼	100
KP80176	.010 -.080	10-32	.250	¼	25
KP80180*	.010 -.080	10-32	.250	¼	25
KP80177	.020 -.080	¼-20	.332	Q	25
45151	.140-.200	¼-20	.332	Q	50
KP80178	.030 -.125	5⁄16-18	.413	Z	25
45152	.125-.200	5⁄16-18	.413	Z	25
KP80179	.030 -.115	⅜-16	.490	12.5mm	25
45153	.115-.200	⅜-16	.490	12.5mm	25

* Aluminum

NOTE: Installation tools for the rivet nuts are sold through our Industrial Supply Division (ISD).

Woodserts

Slotted Woodserts



- Steel
- For use in wood, rubber, plastic, and fiberglass
- No special tools required
- Gold dichromate finish

Part No.	Internal Thread Size	Length (In.)	Drill Dia. (In.)	Recommended Drill Part No.	Unit
35651	No. 4-40	⅜	¼	20912	50
35652	No. 6-32	⅜	¼	20912	50
35653	No. 8-32	⅜	¼	20912	50
35654	No. 10-24	½	⅜	20920	50
KP82574	No. 10-32	½	⅜	20920	25
KP82575	No. 12-24	½	⅜	20920	25
35656	¼-20	½	⅜	20920	50
KP79424	5⁄16-18	⅝	½	20928	25
KP79425	⅜-16	⅝	½	20928	25

Woodsert Drivers



- Use for installation of woodserts
- For ease of installation, use the woodsert driver with a lubricant such as water, soap, shellac, or beeswax

Part No.	Size	Unit
KP82578	No. 6	1
KP82579	No. 8	1
KP82580	No. 10	1
KP82581	No. 12	1
KP82582	¼	1
KP82583	5⁄16	1
KP82584	⅜	1

Rawl Anchors

Hex Head Rawl-Bolt® Anchors

Heavy-Duty Sleeve Style



- Carbon steel construction
- Zinc Chromate plated
- Manufactured using a Grade 5 bolt
- Designed to be used in concrete, block, brick, or stone
- Anchor and hole diameters are identical which eliminates the need for hole spotting or layout
- Vibration-resistant and removable
- Stronger than stud or sleeve anchors

Part No.	Size (In.)	Min. Depth (In.)	Guide Torque (Ft.-Lbs.)	Unit
37424	¼ x 1¾	1¼	7	100
37425	¼ x 3	1¼	7	100

Part No.	Size (In.)	Min. Depth (In.)	Guide Torque (Ft.-Lbs.)	Unit
37426	⅜ x 2¼	2	35	50
37427	⅜ x 3	2	35	50
37428	⅜ x 3½	2	35	50
37429	⅜ x 4	2	35	50

Part No.	Size (In.)	Min. Depth (In.)	Guide Torque (Ft.-Lbs.)	Unit
37430	½ x 2¾	2½	60	50
37431	½ x 3¾	2½	60	25
37432	½ x 4¾	2½	60	25

Part No.	Size (In.)	Min. Depth (In.)	Guide Torque (Ft.-Lbs.)	Unit
37433	⅝ x 4	2¾	100	15
37434	⅝ x 5	2¾	100	15
37435	⅝ x 6	2¾	100	15

Part No.	Size (In.)	Min. Depth (In.)	Guide Torque (Ft.-Lbs.)	Unit
37436	¾ x 4¼	3	120	10
37437	¾ x 5¼	3	120	10
37438	¾ x 7¼	3	120	10

The published length is measured from below the washer to the end of the anchor.

Performance Data

2,000 psi Concrete

Anchor Size (In.)	Guide Torque (Ft.-Lbs.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
¼	7	⅞	1,275	1,480
¼	7	1¼	2,110	1,480
¼	7	2	2,230	1,540
⅜	35	2	4,015	6,525
⅜	35	2½	5,200	7,270
⅜	35	3½	5,585	8,770
½	60	2½	5,935	9,455
½	60	3	7,325	10,150
½	60	5	8,060	12,930
⅝	100	2¾	8,070	15,005
⅝	100	3	8,615	19,825
⅝	100	4	10,450	20,065
⅝	100	6	11,255	20,545
¾	120	3	10,460	20,140
¾	120	4	11,545	22,935
¾	120	5	12,610	25,175
¾	120	7	14,170	29,725

4,000 psi Concrete

Anchor Size (In.)	Guide Torque (Ft.-Lbs.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
¼	7	⅞	1,445	1,690
¼	7	1¼	2,380	1,690
¼	7	2	2,380	1,690
⅜	35	2	4,840	7,875
⅜	35	2½	5,590	8,155
⅜	35	3½	6,150	8,525
½	60	2½	7,415	9,675
½	60	3	9,780	10,690
½	60	5	10,855	14,740
⅝	100	2¾	8,440	15,005
⅝	100	3	9,905	19,995
⅝	100	4	12,685	20,290
⅝	100	6	15,070	20,895
¾	120	3	10,475	20,140
¾	120	4	12,345	26,525
¾	120	5	15,700	28,705
¾	120	7	18,210	33,125

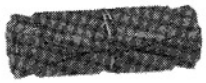
6,000 psi Concrete

Anchor Size (In.)	Guide Torque (Ft.-Lbs.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
¼	7	⅞	1,650	1,690
¼	7	1¼	2,450	1,690
¼	7	2	2,450	1,690
⅜	35	2	5,310	7,875
⅜	35	2½	6,270	8,265
⅜	35	3½	7,550	9,055
½	60	2½	7,485	11,400
½	60	3	10,545	12,005
½	60	5	11,460	14,435
⅝	100	2¾	9,253	15,005
⅝	100	3	11,135	21,290
⅝	100	4	15,660	21,540
⅝	100	6	18,045	22,055
¾	120	3	11,175	20,140
¾	120	4	14,005	29,795
¾	120	5	18,050	30,905
¾	120	7	24,070	33,155

NOTE: The values listed above are ultimate load capacities which should be reduced by minimum safety factor of 4 or greater to determine the allowable working load.

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Rawl® Double Expansion Machine Bolt Anchors



- Zamac 7 alloy construction
- Designed to be used in solid concrete, block, brick, and stone
- Suited for materials of questionable strength
- Constructed of twin tubular sleeves, bound together with high tension spring steel bands, which contain two protruding wedge shaped hollow cones (one smooth/one threaded)

Part No.	Size (In.)	Drill Dia. (In.)	Min. Hole Depth (In.)	Unit
37439	¼-20 x 1⅜	½	1¼	50
37440	5⁄16-18 x 1⅜	⅝	1½	50
37441	⅜-16 x 2	¾	1¾	50
37442	½-13 x 2½	⅞	2¼	25

The published length is measured end to end.

Performance Data

2,000 psi Concrete

Anchor Size (In.)	Tension (Lbs.)	Shear (Lbs.)
¼	1,830	1,760
5⁄16	2,170	2,270
⅜	3,240	3,990
½	6,570	5,940

4,000 psi Concrete

Anchor Size (In.)	Tension (Lbs.)	Shear (Lbs.)
¼	2,340	1,800
5⁄16	2,960	2,640
⅜	4,980	4,220
½	9,065	6,840

6,000 psi Concrete

Anchor Size (In.)	Tension (Lbs.)	Shear (Lbs.)
¼	3,150	3,120
5⁄16	3,420	2,820
⅜	5,860	5,970
½	9,250	11,000

NOTE: The values listed above are ultimate load capacities which should be reduced by minimum safety factor of 4 or greater to determine the allowable working load.
The values for C-90 block and solid brick differ from above. Consult your Bowman representative or a Rawl application guide for the correct values.

Rawl Mushroom Head Spike® Anchors



- Extremely versatile high strength anchors
- Grade 8 carbon steel construction
- One-piece, vibration-resistant design
- Designed to be used in concrete, block, brick, or stone
- Easy to use, just drill a hole and then hammer in place

Part No.	Size (In.)	Drill Dia. (In.)	Min. Embedment (In.)	Unit
¤37447	3⁄16 x 1	3⁄16	⅞	100
¤37448	3⁄16 x 1¼	3⁄16	⅞	100
¤37449	3⁄16 x 2½	3⁄16	1¼	100
¤37450	3⁄16 x 3	3⁄16	1¼	100
¤37451	¼ x 1	¼	⅞	100
¤37452	¼ x 1¼	¼	1	100
¤37453	¼ x 2	¼	1¼	100
37454	¼ x 3	¼	1¼	100
¤37455	⅜ x 3	⅜	1¾	25
¤37456	⅜ x 5	⅜	1¾	25
37457	½ x 2¾	½	2½	50
¤37458	½ x 3½	½	2½	50
¤37459	½ x 4	½	2½	25

The published length is measured from under the head to the end of the anchor.

Performance Data

3,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
3⁄16	⅞	760	1,270
3⁄16	1	820	1,725
3⁄16	1¼	975	2,250
¼	⅞	820	2,040
¼	1	975	2,310
¼	1¼	1,100	2,500
⅜	1¾	2,530	6,310
½	2½	5,460	12,540

4,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
3⁄16	⅞	860	1,310
3⁄16	1	980	1,860
3⁄16	1¼	1,180	2,425
¼	⅞	945	2,230
¼	1	1,135	2,460
¼	1¼	1,550	2,750
⅜	1¾	3,140	7,080
½	2½	6,030	15,300

5,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
3⁄16	⅞	890	1,350
3⁄16	1	995	1,860
3⁄16	1¼	1,450	2,600
¼	⅞	1,010	2,360
¼	1	1,185	2,640
¼	1¼	1,700	3,200
⅜	1¾	3,435	7,150
½	2½	6,470	16,100

NOTE: The values listed above are ultimate load capacities which should be reduced by minimum factor of 4 or greater to determine the allowable working load.

Rawl® Mushroom Head Spike® Anchors



- Type 316 stainless steel construction
- One-piece, vibration-resistant design
- Designed to be used in concrete, block, brick, or stone
- Extremely versatile high strength anchors
- Easy to use, just drill a hole and then hammer in place

Part No.	Size (In.)	Drill Dia. (In.)	Min. Embedment (In.)	Unit
¤37460	3⁄16 x 1	3⁄16	⅞	100
¤37461	3⁄16 x 1¼	3⁄16	⅞	100
¤37462	3⁄16 x 2	3⁄16	1¼	100
¤37463	3⁄16 x 2½	3⁄16	1¼	100
¤37464	¼ x 1¼	¼	1	100
¤37466	⅜ x 2	⅜	1¾	25
¤37467	⅜ x 3	⅜	1¾	25
¤37470	½ x 4	½	2½	25

The published length is measured from under the head to the end of the anchor.

Performance Data

3,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
3⁄16	⅞	715	1,155
3⁄16	1	810	1,650
3⁄16	1¼	970	2,130
¼	⅞	790	1,980
¼	1	970	2,290
¼	1¼	1,080	2,430
⅜	1¾	1,990	5,610
½	2½	4,870	7,730

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4,000 psi Concrete

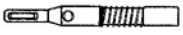
Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
3/16	7/8	850	1,240
3/16	1	975	1,780
3/16	1 1/4	1,160	2,345
1/4	7/8	880	2,140
1/4	1	1,045	2,350
1/4	1 1/4	1,465	2,610
3/8	1 3/4	2,420	6,235
1/2	2 1/2	5,470	7,880

5,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
3/16	7/8	875	1,290
3/16	1	1,065	1,830
3/16	1 1/4	1,420	2,450
1/4	7/8	980	2,270
1/4	1	1,125	2,530
1/4	1 1/4	1,660	2,840
3/8	1 3/4	2,570	6,500
1/2	2 1/2	5,630	8,210

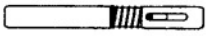
NOTE: The values listed above are ultimate load capacities which should be reduced by minimum safety factor of 4 or greater to determine the allowable working load.

Rawl Spike® Setting Tools



Part No. ¤37495

Spike® Tool Part No.	Use with Style	Fits Mushroom Size (In.)	Use with Style	Fits Thread Size (In.)
¤37495	Mushroom 37447 Series 37460 Series	3/16 and 1/4	Threaded 37471 Series 37481 Series	3/16, 1/4 and 3/8



Part No. ¤37496

Spike® Tool Part No.	Use with Style	Fits Mushroom Size (In.)	Use with Style	Fits Thread Size (In.)
¤37496	Mushroom 37447 Series 37460 Series	3/16 and 1/4	Threaded 37471 Series 37481 Series	3/16 and 1/4



Part No. ¤37497

Spike® Tool Part No.	Use with Style	Fits Mushroom Size (In.)	Use with Style	Fits Thread Size (In.)
¤37497	Mushroom 37447 Series 37460 Series	3/8 and 1/2	Threaded 37471 Series 37481 Series	3/8 and 1/2

Rawl Drop-In (Internal Plug) Anchors



- Carbon steel construction
- Designed to be used in solid concrete, hard stone, and solid block

NOTE: Setting tools are helpful, but not necessary for installation

Part No.	Size (In.)	Drill Dia. (In.)	Min. Depth (In.)	Thread Depth (In.)	Unit
37443	1/4	3/8	1 1/4	7/16	100
37444	3/8	1/2	1 7/8	5/8	50
37445	1/2	5/8	2 3/8	13/16	50
37446	5/8	7/8	3	1 3/16	25

Performance Data

2,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
1/4	1 1/4	1,950	1,760
3/8	1 7/8	3,230	3,990
1/2	2 3/8	4,100	5,940
5/8	3	5,670	11,900
3/4	3 1/2	8,930	16,180

4,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
1/4	1 1/4	3,400	1,800
3/8	1 7/8	6,400	4,220
1/2	2 3/8	9,000	6,640
5/8	3	10,460	12,400
3/4	3 1/2	15,800	19,750

6,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
1/4	1 1/4	3,880	3,120
3/8	1 7/8	5,740	5,970
1/2	2 3/8	10,660	11,000
5/8	3	11,230	14,300
3/4	3 1/2	16,380	21,460

NOTE: The values listed above are ultimate load capacities which should be reduced by minimum safety factor of 4 or greater to determine the allowable working load.

Setting Tools

One setting tool supplied with part No. 37443; others sold separately

Part No.	Size	Anchor Part No.	Unit
37444-1	3/8	37444	1
37445-1	1/2	37445	1
37446-1	7/8	37446	1

Rawl Hollow Set Drop-In Anchors



- Zamac 7 alloy body construction
- Designed for anchoring in hollow base materials such as hollow concrete block, brick with weep holes, hollow core precast concrete plank or solid base materials

Part No.	Size (In.)	Hole Size (In.)	Sleeve OAL (In.)	Sleeve Length (In.)	Unit
37488	1/4	3/8	7/8	5/8	100
37489	3/8	5/8	1 5/16	15/16	100
37490	1/2	3/4	1 3/4	1 1/4	100
37491	5/8	1	2	1 1/2	100

Performance Data

2,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
1/4	7/8	1,100	1,440
5/16	1 1/2	2,710	2,270
3/8	1 1/2	3,010	3,145
1/2	1 1/2	3,420	4,015
5/8	2 1/4	5,725	8,700

4,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
1/4	7/8	1,650	1,800
5/16	1 1/2	3,650	2,640
3/8	1 1/2	4,580	4,220
1/2	1 1/2	5,930	6,840
5/8	2 1/4	9,660	12,680

6,000 psi Concrete

Anchor Size (In.)	Embedment Depth (In.)	Tension (Lbs.)	Shear (Lbs.)
1/4	7/8	2,045	3,120
5/16	1 1/2	4,840	2,820
3/8	1 1/2	5,080	5,970
1/2	1 1/2	9,710	11,000
5/8	2 1/4	12,740	14,300

NOTE: The values listed above are ultimate load capacities which should be reduced by minimum safety factor of 4 or greater to determine the allowable working load.

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Rawl Nail-In Hammer Screw Anchors



- Zamac alloy construction
- One-piece with phillips head screw
- Removeable
- Use in solid concrete, block, brick and stone
- Use for medium and light-duty loads such as tamper-proof installation of duct work, signs, electrical boxes, security screens, and door thresholds
- Fast and easy to use
- Secures pre-drilled fixtures without hole spotting and repositioning
- No need for exact hole depth

Part No.	Size (In.)	Length (In.)	Hole Size (In.)	Unit
C97157	3/16	7/8	3/16	100
38381	1/4	3/4	1/4	100
38382	1/4	1	1/4	100
38383	1/4	1 1/4	1/4	100
38384	1/4	1 1/2	1/4	100
38385	1/4	2	1/4	100
38386	1/4	2 1/4	1/4	100
38387	1/4	3	1/4	100

Wedge-Bolt Concrete Anchors



- Easy, through the fixture installation
- Removable
- Hex washer head-zinc plated
- Made in U.S.A.
- ASTM B633, SCI, Type III
- ASTM E488
- Serrated washer locks anchor against fixture
- City of Los Angeles approved-report 25415

Part No.	Dia. (In.)	Length (In.)	Embedment (In.)	Tensile Stength PSI*	Unit
KP38387	3/8	1 3/4	1 1/2	2860	10
KP38388	3/8	2 1/2	1 1/2	4350	10
KP38389	3/8	3	1 1/2	5550	10
KP38390	3/8	4	1 1/2	8120	10
KP38391	1/2	2	2	5930	10
KP38392	1/2	2 1/2	2	7430	10
KP38393	1/2	3	2	8480	10
KP38394	1/2	4	2	2000	10
KP38395	1/2	5	2	13550	10

* Average ultimate load in 4,000 PSI mix concrete

Wedge-Bolt Installation Specifications

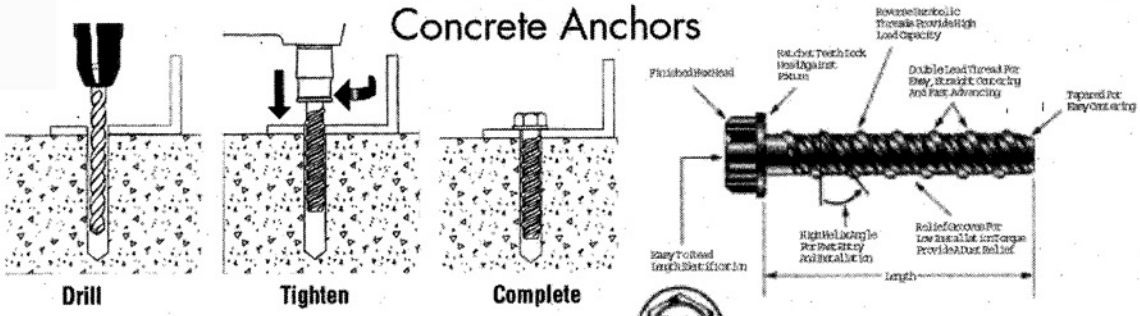
Anchor Size (In.)	Wedge-Bit Drill Size	Fixture Clearance Hole (In.)	Anchor Head Height (In.)	Washer O.D. (In.)	Wrench Size (In.)
3/8	3/8	7/16	21/64	47/64	9/16
1/2	1/2	9/16	7/16	1	3/4

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WEDGE-BOLT™
Concrete Anchors



- Easy, through the fixture installation; simply drill and tighten
- Removable
- Zinc plated hex washer head
- AISIC-1022-heat treated
- Made in the U.S.A.
- ASTM B633, SCI, Type III
- ASTM E488
- Easy to read size identification
- Ratchet teeth lock anchor against fixture
- Hardness RC51-55
- 0-1000˚ F temperature rating
- City of Los Angeles approved-report #25415



SHANKED HAMMER DRILL FOR WEDGE-BOLT™

For proper performance, the Wedge-Bolt anchor must be installed with a Wedge-Bit. The Wedge-Bit has a special matched tolerance range designed to provide optimum performance for the anchor. The available shank styles and sizes are listed below.

- Regular helix with SDS+ shank
- 118˚ masonry point
- Carbide super tipped point
- 4340 steel (34 Cr Ni Mo 6)

INSTALLATION SPECIFICATIONS

CARBON STEEL WEDGE-BOLT™

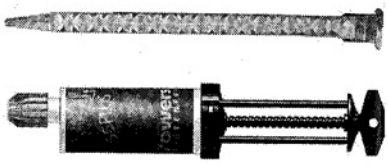
Anchor Size	3/8"	1/2"
Wedge-Bit Drill Bit Size*	3/8"	1/2"

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Powers AC 5.5 Plus Adhesive Anchoring System



- Fast cure adhesive anchoring system designed for use with concrete anchors
- All weather, odorless, non-flammable
- Unique twister delivery system for fast, economical dispensing
- Complete with twister, nozzle, and 5.5 ounces of adhesive

Part No.	Size (oz.)	Unit
KP61041	5.5	1

Mixing Nozzle

Part No.	Unit
KP83857	5

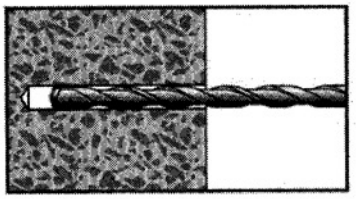
Remember that you can always call our Customer Service Department when you need a sample.

And if you're not sure of exactly what type of fastener you need, rest assured that one call to our Customer Service Department can get you the answer you are looking for!

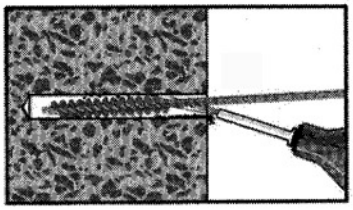
We're here to serve you so feel free to call us with any questions you may have.

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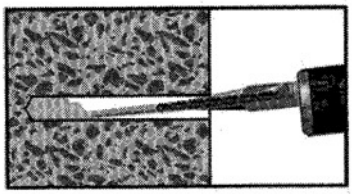
AC100PLUS AND AC5.5PLUS INSTALLATION GUIDELINES SOLID BASE MATERIALS



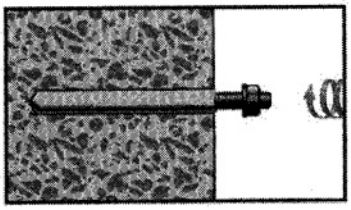
Drill a hole to the size and embedment required. The tolerances of the drill bit used should meet the requirements of ANSI Standard B212.15.



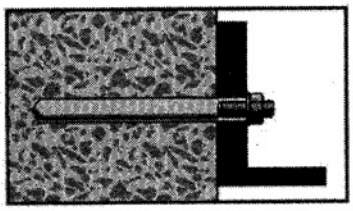
Starting from the bottom or back of the anchor hole, blow clean with **compressed air**, brush the hole with a nylon brush, and blow it clean again. Vacuuming only is not sufficient. Blow out bulbs generally do not provide enough dust removal for most drilled anchor holes. Holes should be clean and sound. They may be dry or damp, but should be free of standing water or frost. If using reinforcing bar, be sure the bar will fit into the drilled hole. If a larger hole is required, the diameter should be as close as possible to the diameter of the reinforcing bar.



Prior to dispensing into anchor hole, visually inspect that adhesive components are uniformly mixed. Fill the hole approximately half way with adhesive starting from the bottom or back of the anchor hole. Slowly withdraw the static mixing nozzle as the hole fills to avoid creating air pockets.

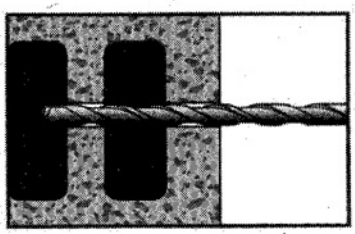


Push the threaded rod or reinforcing bar into the anchor hole while turning slightly to ensure positive distribution of the adhesive. Be sure the rod is fully seated at the bottom of the hole and that some adhesive has flowed from the top of the hole. The threaded rod or reinforcing bar used should be free of dirt, grease, oil, or other foreign material.

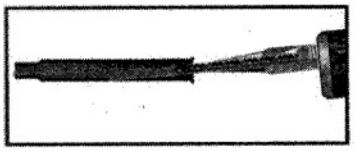


Allow the adhesive to cure for the specified time prior to applying any load. Do not disturb or load the anchor until it is fully cured.

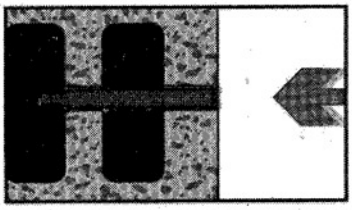
AC100PLUS AND AC5.5PLUS INSTALLATION GUIDELINES HOLLOW BASE MATERIALS



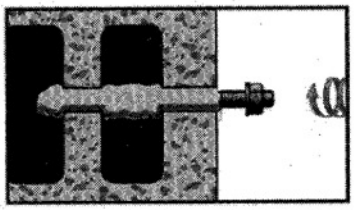
Drill a hole to the size and embedment for the required screen size. The tolerances of the drill bit used should meet the requirements of ANSI B212.15. Starting from the bottom or back of the anchor hole, blow the hole clean with **compressed air**, brush the hole with a nylon brush and blow it clean again. Vacuuming only is not sufficient. Blow out bulbs generally do not provide enough dust removal for most drilled anchor holes.



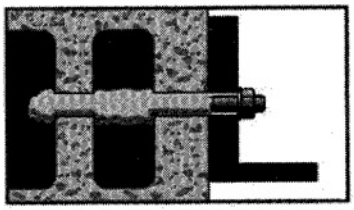
Prior to dispensing into screen tube, visually inspect that adhesive components are uniformly mixed. Fill the screen tube with adhesive starting from the bottom of the screen. The screen tube should be completely filled prior to inserting it in the anchor hole.



Insert the filled screen tube into the anchor hole until it is fully seated at the required embedment.



Push the threaded rod into the screen while turning slightly to ensure positive dispersement of the adhesive. Be sure the rod is fully inserted down to the end of the screen tube. The threaded rod or reinforcing bar used should be free of dirt, grease, oil, or other foreign material.



Allow the adhesive to cure for the specified time prior to applying any load. Do not disturb or load the anchor until it is fully cured.

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Wej-It Anchors

Wej-it® Expansion Anchor Bolts

Wedge Arrow/Hex Nut Type



- Meets OSHA requirement No. 1910.212(b)
- All steel components
- Zinc plated with clear chromate
- Used in concrete and masonry
- Works in oversized holes
- Bolt size matches hole size for easy installation
- Preassembled
- Used for heavy-duty applications in floors, walls, and ceiling for floor anchoring machinery, conveyors, seating motors, pumps, compressors, railing, stock bins and fencing; also used in walls to anchor electric control panels, shelving partitions, conduit piping, light fixtures, and overhead track

Part No.	Wej-it Dia. (In.)	Wej-it Lgth. (In.)	Tensile Strength (psi)	Shear Strength (psi)	Min. Embed-ment* (In.)	Unit
38501	¼	1¾	1760	2316	1⅛	100
38501-X	¼	1¾	1760	2316	1⅛	25
38502	¼	2¾	2331	2316	1¼	100
38502-X	¼	2¾	2331	2316	1¼	25
38503	¼	3	2473	2316	1½	100
38503-X	¼	3	2473	2316	1½	25

Part No.	Wej-it Dia. (In.)	Wej-it Lgth. (In.)	Tensile Strength (psi)	Shear Strength (psi)	Min. Embed-ment* (In.)	Unit
38505	5/16	2	2742	2530	1¼	100
38505-X	5/16	2	2742	2530	1¼	25
38506	5/16	3	3185	2530	1¼	100
38506-X	5/16	3	3185	2530	1¼	25

Part No.	Wej-it Dia. (In.)	Wej-it Lgth. (In.)	Tensile Strength (psi)	Shear Strength (psi)	Min. Embed-ment* (In.)	Unit
38508	⅜	2	3580	5213	1¼	100
38508-X	⅜	2	3580	5213	1¼	25
38509	⅜	2¾	3834	5213	1½	100
38509-X	⅜	2¾	3834	5213	1½	25
38510	⅜	3½	4022	5213	2	50
38510-X	⅜	3½	4022	5213	2	10
38511	⅜	5	4399	5213	3½	50
38511-X	⅜	5	4399	5213	3½	10
38512	⅜	6	4650	5213	4	50
38512-X	⅜	6	4650	5213	4	10

Part No.	Wej-it Dia. (In.)	Wej-it Lgth. (In.)	Tensile Strength (psi)	Shear Strength (psi)	Min. Embed-ment* (In.)	Unit
38514	½	2¾	5717	10748	2	50
38514-X	½	2¾	5717	10748	2	10
38515	½	3½	5789	10748	2¼	50
38515-X	½	3½	5789	10748	2¼	10
38516	½	5	6411	10748	3½	25
38516-X	½	5	6411	10748	3½	5
38517	½	6	7213	10748	4	25
38517-X	½	6	7213	10748	4	5

Part No.	Wej-it Dia. (In.)	Wej-it Lgth. (In.)	Tensile Strength (psi)	Shear Strength (psi)	Min. Embed-ment* (In.)	Unit
38519	⅝	3½	8284	15583	2	25
38519-X	⅝	3½	8284	15583	2	10
38520	⅝	4½	11185	15583	3	25
38520-X	⅝	4½	11185	15583	3	10
38520-1	⅝	5	12636	15583	3½	20
38522	⅝	6	14372	15583	4	15

Part No.	Wej-it Dia. (In.)	Wej-it Lgth. (In.)	Tensile Strength (psi)	Shear Strength (psi)	Min. Embed-ment* (In.)	Unit
38525	¾	4	19299	21000	3	18
38525-X	¾	4	19299	21000	3	5
38526	¾	5	20415	21000	3½	12
38526-X	¾	5	20415	21000	3½	5
38527	¾	6	21530	21000	4	12
38527-X	¾	6	21530	21000	4	5

*Tested in 4000 concrete, 28-day cure.

Concrete Block & Lightweight Concrete Load Data

Wej-it Dia. (In.)	2000 psi Concrete Block Tensile	5000 psi Lightweight Concrete	
		Tensile (psi)	Shear (psi)
¼	545	1861	1947
5/16	852	2493	3064
⅜	1277	3125	4289
½	2025	4778	9833
⅝	—	6455	12500
¾	—	17293	19050

SOURCE: AA Engineers & Associates, Inc., Denver Colorado.
Recommended safe working load is one-fourth Tensile and Shear values shown.
Conversion to 2000 psi, multiply by .75 for ¼", 5/16", ⅜"
Conversion to 2000 psi, multiply by .50 for other diameters
Conversion to 3000 psi, multiply by .90
Conversion to 5000 psi, multiply by 1.25
Conversion to 6000 psi, multiply by 1.40

Expansion Anchors

Expansion Anchor Bolts

Wedge Collar/Hex Nut Type



- U.L. listed
- I.C.B.O. and N.Y. City approved
- Meets or exceeds G.S.A. specifications FF-S-325 2.4.1
- All steel construction with stainless steel collar
- Zinc plated with clear chromate
- Use in solid concrete
- Anchor and hole diameters are identical
- Complete assembly for fast, economical installation as one unit
- Requires no hole spotting, layout or fixture movement for installation
- Use for heavy duty applications involving structural anchoring of all types including fastening heating, ventilation, air conditioning, machinery, conveyors, concrete forms, hand and guard rails, highway rails, and posts

Part No.	Dia. (In.)	Length (In.)	Thread Lgth. (In.)	Unit
38401	¼	1¾	¾	25
38402	¼	2¼	¾	25
38403	¼	3¼	¾	25

Part No.	Dia. (In.)	Length (In.)	Thread Lgth. (In.)	Unit
38406	⅜	2¼	1⅛	25
KP36355	⅜	2¾	1⅛	25
38407	⅜	3	1⅛	25
38408	⅜	3¾	1⅛	10
38409	⅜	5	1⅛	10

Part No.	Dia. (In.)	Length (In.)	Thread Lgth. (In.)	Unit
38411	½	2¾	1¼	10
38411-1	½	3¾	1¼	10
38412	½	4¼	1¼	10
38413	½	5½	1¼	5
38414	½	7	1¼	5

Part No.	Dia. (In.)	Length (In.)	Thread Lgth. (In.)	Unit
38417	⅝	3½	1½	10
C37393	⅝	4¼	1½	10
38418	⅝	5	1½	5
38419	⅝	6	1½	5
✦CD555898	⅝	7	1½	10
✦CD555899	⅝	8½	1½	10

Part No.	Dia. (In.)	Length (In.)	Thread Lgth. (In.)	Unit
38423	¾	4¼	1½	5
KP36366	¾	4¾	1½	10
38424	¾	5½	1½	5
✦CD555890	¾	6¼	1½	10
38425	¾	7	1½	5
✦CD555891	¾	8½	1½	10
✦CD555888	¾	10	1½	10
✦CD555901	⅞	6	2	5
✦CD555879	1	6	2⅜	5
✦CD555880	1	9	2⅜	5
✦CD555878	1	12	2⅜	5

✦Canada Only

Performance & Strength Data

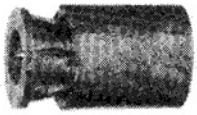
4500 psi concrete

Part No.	Dia.	Min. Embedment (In.)	Tensile Strength (psi)	Shear Strength (psi)
38401	¼	1⅛	2520	1500
38402	¼	1⅛	2520	1500
38403	¼	1⅛	2520	1500
38406	⅜	1½	4700	3750
38407	⅜	1½	4700	3750
38408	⅜	1½	4700	3750
38409	⅜	1½	4700	3750
38411	½	2¼	7330	6800
38412	½	2¼	7330	6800
38413	½	2¼	7330	6800
38414	½	2¼	7330	6800
38417	⅝	2¾	10340	10600
38418	⅝	2¾	10340	10600
38419	⅝	2¾	10340	10600
38423	¾	3¼	13700	15330
38424	¾	3¼	13700	15330
38425	¾	3¼	13700	15330
✦CD555901	⅞	4	13902	21,574
✦CD555879	1	4½	15829	28,023

✦Canada only

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Expansion Machine Bolt Shields/ Anchors



- UNC (USS)
- Meets GSA specifications FF-325 No. 3.2.1.1.1
- Zinc-alloy shield and cone
- Non-plated
- Use in shallow hole anchoring in solid masonry and concrete, especially in old and brittle substrates
- Highly versatile
- Resists rust
- Installs easily
- Compensates for hole irregularities
- Include tool
- Use with machine screws
- Use for medium and light-duty loads. Also excellent for mounting switches, breaker paneals, handrails, and metal window sashes

Part No.	Fits Bolt Size (In.-TPI)	Anchor Lgth. (In.)	Drill Size (In.)	Unit
C96949	6-32	3/8	5/16	100
C83025	8-32	1/2	5/16	100
38566	10-24	5/8	3/8	100
38567	1/4 -20	7/8	1/2	100
38568	5/16-18	1	5/8	100
38569	3/8 -16	1 1/4	3/4	50
38570	1/2 -13	1 1/2	7/8	50

Strength Data

Part No.	Tensile Strength (psi)	Shear Strength (psi)
38566	950	1200
38567	2120	2070
38568	2900	2400
38569	5250	4180
38570	6080	5000

Lead Screw Anchors

Lead Screw Anchors



- Rust-proof lead Anchors
- Use with wood or sheet metal screws
- Ideal for brick, masonry or concrete

Part No.	Dia.	Length	Use with Screw Size	Drill Size	Unit
C96957	1/8	3/4	No. 6-8	1/4	100
C96958	1/8	1	No. 6-8	1/4	100
C96959	1/8	1 1/2	No. 6-8	1/4	100
C96960	3/16	3/4	No. 10-14	5/16	100
C96961	3/16	1	No. 10-14	5/16	100
C96962	3/16	1 1/2	No. 10-14	5/16	100
C96963	1/4	3/4	No. 16-18	3/8	100
C96964	1/4	1	No. 16-18	3/8	100
C96965	1/4	1 1/2	No. 16-18	3/8	100

Drop-In Anchors

Drop-In Anchors



- UNC (USS)
- U.L. listed (except 1/4")
- All steel construction
- One setting tool per package
- Zinc plated
- Used in solid concrete
- Fastener can be removed and replaced from anchor with decreasing holding power
- Easy installation requires:
  - Setting tool (included)
  - Carbide tipped masonry drill (Refer to Part No. XXX)
- Used for heavy-duty and medium-duty jobs such as pipe hanging, sprinklers, electrical and core drilling equipment, mounting valves, machinery mounting, anchoring shelves, insulating transformers, parking meters, channels, partitions, blowers, pumps and cable trays

Part No.	Dia. (In.)	Anchor Lgth. (In.)	Thread Depth (In.)	Unit
38370	1/4	1	7/16	100
38371	3/8	1 3/16	5/8	100
38372	1/2	1 13/16	1 1/16	50
38373	5/8	2 9/16	7/8	25

Strength Data

Part No.	Strength Tensile (psi)	Strength Shear (psi)	Drill Size (In.)
38370	2400	2177	3/8
38371	4200	3950	1/2
38372	6990	6422	5/8
38373	11430	14677	7/8

Setting Tools

Part No.	Anchor Size (In.)	Anchor Part No.	Unit
38375	1/4	38370	1
38376	3/8	38371	1
38377	1/2	38372	1
38378	5/8	38373	1

Lag Screw Shields

Lag Screw Shields/Anchors



- Zinc alloy
- Non-plated
- Use in concrete, brick, stone, or masonry
- Special reinforced rings give maximum bite, will not flatten out for superior holding power
- Rust proof
- Simple to install
- Use with lag screws no. 32310-32357
- Use in medium and light-duty loads in a variety of applications from hand rails to heavy equipment

Part No.	Dia. (In.)	Type	Shield Lgth. (In.)	Hole Size (In.)	Unit
38550	1/4	short	1	1/2	100
38544	1/4	long	1 1/2	1/2	100

Part No.	Dia. (In.)	Type	Shield Lgth. (In.)	Hole Size (In.)	Unit
38551	5/16	short	1 1/4	1/2	100
38545	5/16	long	1 13/16	1/2	100

Part No.	Dia. (In.)	Type	Shield Lgth. (In.)	Hole Size (In.)	Unit
38552	3/8	short	1 3/4	5/8	50
38546	3/8	long	2 1/2	5/8	50

Part No.	Dia. (In.)	Type	Shield Lgth. (In.)	Hole Size (In.)	Unit
38553	1/2	short	2	3/4	25
C83041	1/2	long	3	3/4	25

Self-Tapping Masonry Anchors

Masonry Anchor Self-Tapping Screws



- Carbon steel
- Use in concrete, block and brick
- Cuts threads into concrete
- Removable
- Fast, easy-to-use and install
- No need to pre-spot holes
- Requires no inserts
- High/low tapping threads
- Nail point
- Taper shank
- Use with part no. 38460 installation tool and drill bit
- Use for medium to light duty installations such as window and door frames, HVAC duct straps, wall partitions, shelving, roof flashing, facia panels, conduit clips, furring strips, signs, awnings, gutters and downspouts

Hex Head Part No.	Phillips Flat Head Part No.	Dia. (In.)	Length (In.)	Unit
MP38461	MP38470	3/16	1 1/4	25
38461	38470	3/16	1 1/4	100
C32453	C32461	3/16	1 1/4	250
MP38462	MP38471	3/16	1 3/4	25
38462	38471	3/16	1 3/4	100
C32454	C32462	3/16	1 3/4	250
MP38463	C96126	3/16	2 1/4	25
38463	38472	3/16	2 1/4	100
C32455	C32463	3/16	2 1/4	250
MP38464	C96127	3/16	2 3/4	25
38464	38473	3/16	2 3/4	100
C32456	C32464	3/16	2 3/4	250
38464-1	38473-1	3/16	3 1/4	100
MP38465	MP38474	1/4	1 1/4	25
38465	38474	1/4	1 1/4	100
C32457	C32465	1/4	1 1/4	250
MP38466	C94253	1/4	1 3/4	25
38466	38475	1/4	1 3/4	100
C32458	C32466	1/4	1 3/4	250
MP38467	MP38476	1/4	2 1/4	25
38467	38476	1/4	2 1/4	100

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Truss Head

Part No.	Size (In.)	Head Style	Drill Size	Unit
34255	3/16 X 3/4	Truss	3/16	100
KP76459	3/16 x 1	Truss	3/16	100
31970	1/4 x 3/4	Truss	1/4	100
*J05765	1/4 X 3/4	Truss	1/4	100
31970-5000	1/4 X 3/4	Truss	1/4	5000
31971	1/4 x 1	Truss	1/4	100
34256	1/4 X 1	Truss	1/4	100
31971-1	1/4 x 1	Truss	1/4	500
31971-5000	1/4 X 1	Truss	1/4	5000
31972	1/4 x 1 1/2	Truss	1/4	100
31972-5000	1/4 X 1/2	Truss	1/4	5000
31971-2	1/4 x 2	Truss	1/4	100
C37036	1/4 x 3	Truss	1/4	100
C82988	3/16 x 1	Round	3/16	100
31975	1/4 x 1	Round	1/4	100
31976	1/4 x 1 1/2	Round	1/4	100
C86386	1/4 x 2	Round	1/4	100
C82989	3/16 x 1	Flat	3/16	100
31973	1/4 x 1	Flat	1/4	100
C82993	1/4 x 1 1/2	Flat	1/4	100

*Nylon Pin
**Aluminum Nail



Round Head

Part No.	Dia. (In.)	Hole Size (In.)	Length (In.)	Unit
31975	1/4	1/4	1	100
31976	1/4	1/4	1 1/2	100

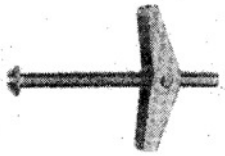


Flat Head

Part No.	Dia. (In.)	Hole Size (In.)	Length (In.)	Unit
31973	1/4	1/4	1	100

Toggle Bolts

Toggle Bolt Hollow Wall Anchors



- UNC (USS)
- Low carbon steel
- Use in all hollow wall construction jobs, including both walls and hung ceilings
- Strength – steel construction plug a large load bearing surface combine to deliver superior holding power
- Simple installation saves time
- Slotted round head
- Use for hollow wall applications where strength is needed and fixture replacement is not a factor
- Applications include drop ceilings, furring strips, drapery hardware, lighting fixtures, junction boxes, conduit clips and metal trim

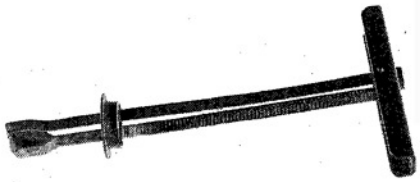
Part No.	Dia. (In. - TPI)	Length (In.)	Hole Size (In.)	Unit
C83001	6-32	2	3/8	25
38556†	6-32	3	3/8	100
38557	6-32	4	3/8	100
C83007	10-24	2	1/2	25
38558	10-24	3	1/2	100
38559	10-24	4	1/2	100
C96932	10-24	5	1/2	25
C96933	10-24	6	1/2	25
38560	1/4-20	3	5/8	50
38561	1/4-20	4	5/8	50
C83012	1/4-20	5	5/8	25
38562	1/4-20	6	5/8	50
38562-1	5/16-18	4	7/8	25
C96934	5/16-18	5	7/8	10
C83017	5/16-18	6	7/8	10
38562-2	3/8-16	3	1	25
38563	3/8-16	4	1	25
C83020	3/8-16	5	1	10
38564	3/8-16	6	1	25

Heads Only

Part No.	Dia. (In. - TPI)	Hole Size (In.)	Unit
38601	6-32	3/8	100
38602	10-24	1/2	100
38603	1/4-20	5/8	100
38604	3/8-16	7/8	50
38603-1	5/16-18	7/8	50

†38556 has mushroom head

Anchor – Toggle® Hollow Wall



- Plastic legs and locking washer hold channel tightly against wall, so no need to tug on anchors during installation
- Toggler installs permanently, never the problem of losing it behind a wall
- Use on sheetrock, fiberglass, wood, masonry, metal, tile and cinder block.

Part No.	Screw Size (In.)	Hole Size (In.)	Unit
KP78499	6-32	3/8	100
C89133	No. 10-24 (3/16)	1/2	25
C89134	1/4-20 (1/4)	1/2	25
89135	3/8-16	3/4	10
89136	1/2-13	3/4	10

Screw Anchors

Hollow Wall Screw Anchors

- All steel components
- Use in hollow walls and ceilings made of plaster, gypsum, plaster over metal lathe
- Screw can be removed and replaced to install fasteners before attaching fixture
- No drilling required — drive in installation
- One-piece construction
- Use for light-duty applications including mirrors, pictures, cabinets, drapery hardware, shelf brackets, and bathroom fixtures

Screw Type - Pan Head



Standard – Length is always determined by measuring from under the flat head to the full length of the shell (± 1/8")

Part No.	Ind. No.	Screw Size & Length	Screw Length (In.)	Grip Range (In.)	Unit
C30701	4XS	6-32	1	1/16 - 1/4	100
38539	4S	6-32	1 1/2	1/8 - 1/2	100
38540	4L	6-32	2	5/8 - 7/8	100
C89301	4SL	6-32	2	1/8 - 13/16	50
KP65401	4XL	6-32	2 9/16	1/4-1	50
38541	6S	10-24	2 1/4	1/8 - 5/8	50
38542	6L	10-24	2 3/4	5/8 - 13/16	50
C89303	6XL	10-24	3 1/2	1 1/4 - 1 3/4	25
C89304	8S	1/4-20	2 1/4	1/8 - 5/8	25
C89305	8L	1/4-20	2 9/16	5/8 - 13/16	25
C89306	8XL	1/4-20	3 3/16	1 1/4 - 1 3/4	25

Drive Type - Pan Head



Drive — Length is always determined by measuring from under the flat head to the full length of the shell and also includes the plastic at the point end (± 1/8")

Part No.	Ind. No.	Screw Size & Length	Screw Length (In.)	Grip Range (In.)	Unit
38537	4SDHH	6-32	1 25/32	1/8 - 1/2	100
38538	4SLDHH	6-32	2 7/32	1/8 - 13/16	100
C86381	4MSD	6-32	1 7/16	3/16 - 3/8	100
C30698	4XSD	6-32	1 11/32	1/16 - 1/4	100
C86382	4SD	6-32	1 21/32	1/8 - 1/2	100
MPC86382	4SD	6-32	1 21/32	1/8 - 1/2	25
C30699	4LD	6-32	2 11/32	5/8 - 7/8	100
C86383	4SLD	6-32	2 7/32	1/8 - 13/16	100
MPC86383	4SLD	6-32	2 7/32	1/8 - 13/16	25

Light-Duty Plastic Screw Anchors

Collar Type



- All plastic construction
- Use in solid concrete, brick, masonry or drywall
- Ideal for hollow wall applications; won't "slip"
- Resist corrosion
- Use with sheet metal, wood or lag screws
- Use for light duty fixtures such as mirrors, pictures, cabinets, curtains, drapes and shelf brackets

Part No.	Fits Screw Size	Length (In.)	Hole Size (In.)	Unit
C87297	6, 8	3/4	3/16	100
38530	8, 10	7/8	3/16	200
MP38530	8,10	7/8	3/16	100
38531	10, 12	1	1/4	200
MP38531	10,12	1	1/4	100
38532	1/4, 16	1 3/8	5/16	100

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Vinyl Plug Anchors



- Use on plasterboard or concrete
- Resists acids, oils, chemicals
- Cut to any length with knife or cutting pliers

Part No.	Hole Size (In.)	Use with Screw Size	Length (In.)	Color	Unit
C30821	3/16	No. 4-5-6	1	White	100
C30823	1/4	No. 8-9	1	Red	100
C30824	1/4	No. 8-9	1 1/2	Red	100
C30825	1/4	No. 10-12	1	Green	100
C30827	1/4	No. 10-12	1 1/2	Green	100
C30828	1/4	No. 10-12	2	Green	100
C30829	5/16	1/4 Lag	1	Blue	100
C30830	5/16	1/4 Lag	1 1/2	Blue	100
C30831	5/16	1/4 Lag	2	Blue	100
C30833	3/8	5/16 Lag	1 1/2	Orange	100
C30834	3/8	5/16 Lag	2	Orange	50
C30835	3/8	5/16 Lag	2 1/2	Orange	50
C30836	7/16	3/8 Lag	2	Gray	50
C30837	7/16	3/8 Lag	2 1/2	Gray	50
C30838	5/8	1/2 Lag	2 1/2	Black	25

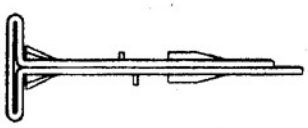
Plastic Toggler



- Polypropylene construction
- Designed to be used for light-duty fastening in hollow walls, wallboard and plaster
- Fastener may be removed and the anchor remains in place
- Use with No. 6 through No. 12 screws

Part No.	Size	Wall Thick. (In.)	Hole Size (In.)	Unit
38577	small	0 - 1/8	5/16	100
MP38577	small	0 1/8	5/16	25
38578	medium	3/8 - 1/2	5/16	100
MP38578	medium	3/8-1/2	5/16	25
38579	large	1/2 - 5/8	5/16	100
MP38579	large	1/2-5/8	5/16	25

Legs™ Anchors



- Steel construction
- One-piece drive type hollow wall anchor for use in wallboard
- Use with a no. 8 sheet metal screw

Part No.	Description	Unit
37492	Legs™ Anchors	100

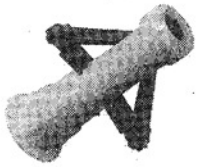
Plastic Wall Anchor Kits



- Kit includes one size of conical style anchor and Phillips/Slot Combo Drive sheet metal screws
- 100 anchors and screws per kit
- Ideal for single job use
- Made in U.S.A.

Part No.	Screw Size	Drill Size (In.)	Color	Unit
KP150053	6-8	3/16	Yellow	1
KP150054	8-10	3/16	White	1
KP150055	10-12	1/4	Blue	1
KP150056	14-16	5/16	Gray	1

Self Adjusting Drywall Anchor



- As the anchor expands, the legs are drawn up tightly against the back wall providing a secure hold
- Ideal for use in drywall, plaster, glass block, or cinder block

Part No.	Hole Size (In.)	Screw Size	Unit
KP80884	3/8	No. 8	100

Cobra Plastic Screw Anchor

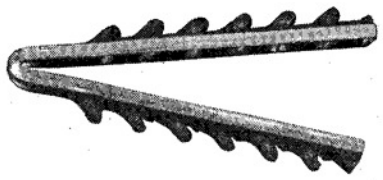


- Ripple design allows for stronger hold in plaster, wallboard, wood and masonry
- Made of tough high density polyethylene
- Use with wood or sheet metal screws

Part No.	Screw Size	Drill Size (In.)	Length (In.)	Unit
KP84130	4-6-8	3/16	1	100
KP84131	8-10-12	1/4	1 1/4	100
KP84132	12-14-16	5/16	1 1/2	50

Alex Plugs

Aluminum Screw Anchors Canada Only



- Moisture and rot proof - can be used in fresh concrete without risk of loosening
- Exclusive inner construction ensures that screws will drive in straight
- For oversize holes, extra plug halves may be used to build up to the correct diameter

Part No.	Size	Length (In.)	Hole Size (In.)	Screw Size	Unit
+CD550012	12	1	1/4	#5 - #10	100
+CD550014	12	1 1/4	1/4	#5 - #10	100
+CD550013	12	1 1/2	1/4	#5 - #10	100

+Canada only

Mungo Universal Plugs



- Cadmium-free nylon makes them environmentally friendly
- Ideal for wood screws, drywall screws
- Break-off flange when used for through fixing applications
- Fins prevent the plug from rotating in the building material
- For virtually all hollow-wall applications
- Threaded cone end keeps plug together when walls of plug collapse during screwing

Part No.	Size (In.)	Length (In.)	Screw Size	Unit
KP82780	3/16	1 7/16	No. 4 - No. 6	100
38695	1/4	1 7/16	No. 6 - No. 8	25
KP82782	5/16	1 1/2	No. 10 - No. 12	100
38696	5/16	2	No. 10 - No. 12	25
38697	3/8	2 3/8	1/4", 5/16"	25

E-Z Anchor

E-Z Anchor®

- One-piece self-drilling anchor designed for use in hollow gypsum wall board for light to medium loads
- Installs quickly with a No. 2 or 3 phillips head screwdriver
- Applications include mounting electrical fixtures, fastening drapery supports, installing phone systems and accessories



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Zinc Die Cast

Part No.	Dia. x Length (In.)	Screw Size	Unit
MP38580	½ x 1⅝	No. 8	25
38580	½ x 1⅝	No. 8	100
C32469	½ x 1⅝	No. 8	250
KP82903	⅜ x 1 5/16	No. 6, 8	25



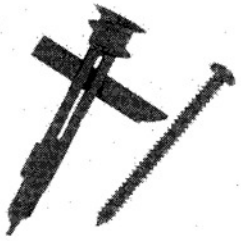
Engineered Plastic

Part No.	Unit
MP38581	25
38581	100
C32878	250

Engineered Plastic-Lite

Part No.	Unit
C38361	25
C39960	100
C38362	250

E – Z Toggle with Sheet Metal Screw

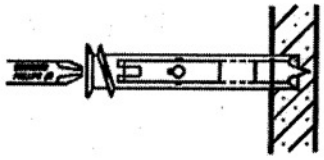


- Self-drilling toggle anchor eliminates hole drilling
- Easy installation; installs with a No. 2 phillips screwdriver - no electric drill or other tools necessary
- For wall and ceiling applications
- Long clamping wing can replace both 1/8 in. and 3/16 in. standard toggles
- High helix thread provides strong seating of anchor, no stripout
- Zinc die cast
- Must use with specially designed screw included - eliminates thread strip out

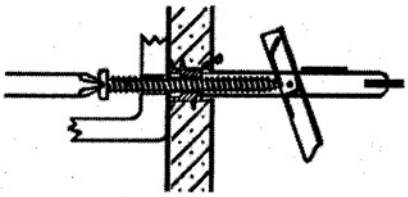
NOTE: Arrows on head of anchor should be vertical in relation to wall studs

Part No.	Screw Size	Max Fixture Thick (In.)	Unit
C34051	No. 8 x 2	½	25

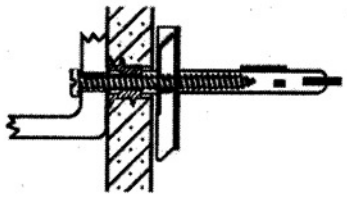
E-Z TOGGLE



1. Place #2 Phillips screwdriver or cordless screwdriver (#2 Phillips bit) into the recess of the E-Z Toggle. Press into gypsum wallboard, while turning the anchor clockwise until it is seated flush with the wall. Line up arrows on head vertically.



2. Place fixture in position over installed E-Z Toggle. Push screw through E-Z Toggle to engage clamp.



3. Continue turning screw until tight. The clamp will move back against the drywall as the screw is turned.

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Uni-Tap



- Unique nylon fastener that can be used in wood, concrete, brick, plastic, or metal
- Low cost, non-corrosive, tamper-resistant, and FDA approved
- Ideal for truck trailer liners, refrigerated trucks, and construction
- Eliminates ice build up and corrosion. Temperature range – 60 °F - 425 °F
- Drill a .281 size hole (K letter) insert Uni-Tap and hammer in place

Part No.	Head Dia. (In.)	Anchor Dia. x Lenght (In.)	Grip Range (In.)	Unit
KP80628	⅝	¼ x 1	3⁄16 - ½	100
KP80628-6000	⅝	¼ x 1	3⁄16 x ½	6000
313346	⅝	¼ x 1⅜	⅜ x 1⅛	100

Chemical Concrete Anchoring System

Anchor All Chemical Anchors

Concrete Fastening System



- Numerous applications — use for highway guard rails, repair damaged pre-cast materials, connecting new and old concrete, bridge and safety hand rails, machinery anchoring, dock bumpers, and pre-cast lane dividers
- Reinforced polyester resin and hardener — provides high strength; up to 47,861 psi with 1" diameter stud in 5,000 psi concrete
- Quick setting — 90% of ultimate strength in 90 minutes
- All chemical system — no expansion stress applied to base material; a common problem with mechanical anchors; conforms to irregular holes
- Waterproof — impervious to surface and ground water; long service life
- High vibration resistance — for secure holding power
- Highly pourable consistency — fills holes completely without "bridging"
- Foil mixer-pouch package — eliminates ultraviolet damage; no setting tools, breakable glass tubes, or waste; provides easy mixing and long shelf life
- Pre-measured components — avoids proportioning errors; no costly re-work

Part No.	Description	Unit
38611	5.5 oz. net wt. mixer-pouch	1

Chemical Anchor

Acrylic-100™



- Acrylic-100™ Adhesive Anchor System Kit consists of: – a two-part adhesive cartridge
  – a specially designed static mixing nozzle
  – a dual-piston dispensing tool
- The cartridge is a 7-to-1 ratio dual design in which the hardener is contained in the smaller tube and the baseresin in the larger tube
- Gray color

Part No.	Description	Unit
84800	Acrylic100CartridgeKit*	1
84820	Acrylic100NozzleOnly	12
84840	Acrylic100DispensingTool	1

*Each kit includes 1 cartridge and 1 nozzle

Chemical Anchor

Hammer-Capsule™



- Self-contained, single-use, two-part glass capsule
- Designed for use with straight cut rod (a chisel-pointed anchor rod and special installation tools are not necessary)
- Mixed adhesive mortar – amber in color

Part No.	Size (In.)	Drill Dia.*	Min. Depth	Unit
67030	½	9⁄16	4¼	10
67040	⅝	11⁄16	5	10
67050	¾	⅞	6	5

Hammer-Capsule™ is a trademark of Powers Fastening, Inc.

Chemical Anchor

Threaded Rod



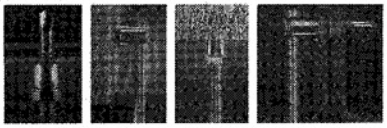
Straight Cut Rod

- Manufactured specifically for chemical anchors
- Includes one nut and one washer
- Equivalent to Grade 2 (A307)

Part No.	Size (In.)	Drill Dia. (In.)	Unit
¤79810	⅜	5½	25
79850	½	5½	25
79900	⅝	8	20
79930	¾	9	10

Acrylic-100™ is a trademark of Powers Fastening, Inc.

HangerMate® Threaded Rod Anchoring System



- Used to support fire sprinklers, general piping, electrical, HVAC refrigeration in steel, concrete, and wood. 1/4-10 thread and 3/8-16 thread
- Replaces beam clamps
- Carbon steel

For Purlins, Steel and Wood (BRUTE™ Series Sidemount Anchors)

Purlin



- For side attachment to steel (16 ga. to 14 ga.)
- Tapped to accept 3/8-16 threads
- Supplied with 5/16-18 hex nuts

Part No.	Unit
KP26502	10

Steel



- For side attachment to steel (16 ga. to 1/4")
- Tapped to accept 3/8-16 threads

Part No.	Unit
KP26503	10

Steel



- For side attachment to steel (16 ga. to 1/4")
- Tapped to accept 3/8-16 threads
- Supplied with 5/16-24 hex nuts

Part No.	Unit
KP26504	10

Continued on next page

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Continued from previous page

Wood



- For side attachment to wood joists or beams
- Tapped to accept 3/8-16 threads

Part No.	Unit
KP26505	10

For Steel, Light-Gauge Steel, and Purlins

Steel/Metal



- For attachment to steel up to1/4″
- Tapped to accept 1/4-20 threads

Part No.	Unit
KP26495	10

Steel/Metal



- For attachment to steel (.155″ to 1/4″)
- Tapped to accept 3/8-16 threads

Part No.	Unit
KP26498	10

Steel/Metal



- For attachment to steel up to 1/4″
- Tapped to accept 3/8-16 threads
- 5/16-24 hex nuts required
- For light-gauge applications

Part No.	Unit
KP26499	10

Purlins/Light Gauge Steel



- For attachment to the bottom of purlins (16 ga. and 14 ga.)
- Tapped to accept 3/8-16 threads
- Supplied with 5/16-18 hex nuts

Part No.	Unit
KP26500	10

Concrete/Masonry and Wood



- For attachment to concrete/masonry and wood
- Tapped to accept 1/4-20 threads

Part No.	Unit
KP26496	10

Concrete/Masonry and Wood



- For attachment to concrete/masonry and wood
- Tapped to accept 3/8-16 threads
- FM approved in concrete applications only

Part No.	Unit
KP26497	10

Wood



- For attachment to wood joists and beams
- Tapped to accept 3/8-16 threads
- Approved for 3/4-4″ dia. pipe

Part No.	Unit
KP26501	10

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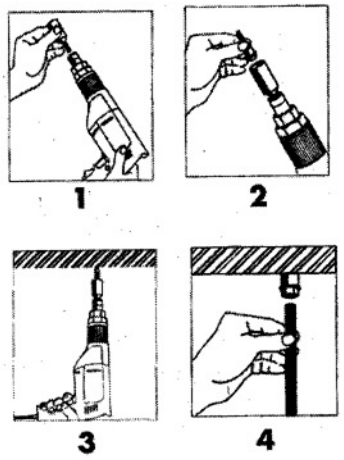
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HANGERMATE® THREADED ROD ANCHORING SYSTEM

Metal and Wood Applications

1. Insert HangerMate drive socket 26508 or 26507 into corded screw gun (min. 4.5 amps) or appropriate cordless screw gun.
2. Insert appropriate HangerMate anchor into drive socket.
3. HangerMate anchors drill their own holes in metal and wood applications so predrilling is unnecessary. Simply position the self-drilling point of the anchor at the intended point of installation and with the screw gun operating at approximately 1800 R.P.M, install the HangerMate anchor. The drive socket's safety set feature will set the anchor flush and then automatically disengage to prevent over-drilling.
4. The HangerMate anchor is now installed and ready to accept a threaded rod or component.

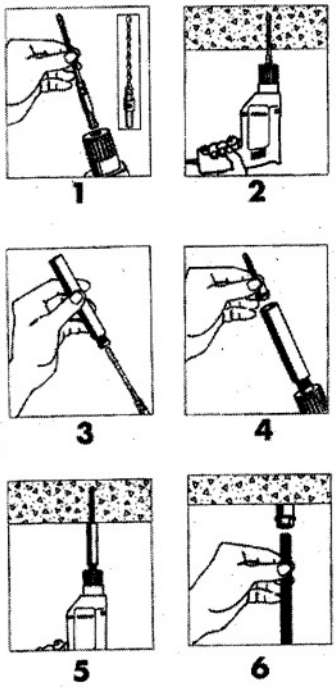
NOTE: For sidemount applications in metal and wood, use HangerMate Brute™ anchors and gold-colored Brute™ installation driver. Use part No. 26057.



Masonry/Concrete Applications

1. Insert appropriate HangerMate carbide-tipped drill bit into hammer or rotary hammer drill. For SDS-drive drills, use drill bit 26513; for keyed chuck-type drills, use tanged bit 26512 installed in adapter 26510 (see inset).
2. With the drill in the hammer mode, drill the full length of the bit.
3. Slide appropriate drive sleeve over drill bit, locking its internal hex recess with the hex collar of the drill bit.
4. Insert appropriate HangerMate anchor into the drive sleeve. Disengage hammer mode and engage drill-only mode.
5. Place tip of the HangerMate anchor into drilled hole and drive until the safety set feature seats the anchor and disengages.
6. The installed HangerMate anchor is now ready to accept a threaded rod or component. Successive installations are even easier, simply remove the drive sleeve from the drill bit, drill hole(s) and repeat steps 3 through 5.

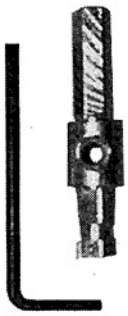
NOTE: Factory Mutual (FM) requires all 26497 HangerMate anchors be countersunk into concrete. Use carbide countersink tool 26514 for countersinking.



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HangerMate® Threaded Rod Anchoring System

Installation Components



- Drill bit adapter kit

Part No.	Unit
KP26510	1

Brute™ Gold-Colored



- Brute™ Gold-Colored Recessed Drive Socket
- Use for metal and wood side-mount applications

Part No.	Unit
KP26507	1

Recessed Drive Socket



- Use for vertical-mount metal and wood applications

Part No.	Unit
KP26508	1

Recessed Drive Sleeve



- Use for concrete/masonry applications

Part No.	Unit
KP26509	1

Tanged Drill Bit



- Use with 26510 adapter kit

Part No.	Unit
KP26512	1

SDS Hex Shank Drill Bit



Part No.	Unit
KP26513	1

Carbide Countershink Tool



- Use with 26497 in FM-approved concrete/masonry applications

Part No.	Unit
KP26514	1

SDS Drive Countersinking Socket



- Use with 26497

Part No.	Unit
KP26515	1

Drive Sleeve



- Use with 26496 and 26516

Part No.	Unit
KP26511	1

3/8″ Hex Recessed Drive Socket



- Use with 26495 and 26496

Part No.	Unit
KP26516	1

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Hammer-Lock-Steel

Cotter Pins
Hammer-Lock Type



- Low carbon steel
- Zinc plated

Part No.	Dia. (In.)	Length (In.)	Unit
C6118	3/64	3/8	50
38208	1/16	1/2	100
38209	1/16	3/4	100
38210	1/16	1	100
38211	1/16	1 1/4	100
38212	1/16	1 1/2	100
C81470	1/16	1 3/4	200
38214	1/16	2	100
38215	3/32	1/2	100
38216	3/32	3/4	100
38217	3/32	1	100
38218	3/32	1 1/4	100
38219	3/32	1 1/2	100
38220	3/32	1 3/4	100
38221	3/32	2	100
C81473	3/32	2 1/2	100
C6124	7/64	3/4	100
38224	7/64	1	100
38225	7/64	1 1/4	200
38226	7/64	1 1/2	200
38226-1	7/64	1 3/4	200
38227	7/64	2	200
C672061	1/8	3/4	100
38229	1/8	1	100
38230	1/8	1 1/4	100
38231-X	1/8	1 1/2	1000
38231	1/8	1 1/2	100
38232	1/8	1 3/4	100
38233-X	1/8	2	500
38233	1/8	2	100
38234	1/8	2 1/2	100
38235	1/8	3	100
38237	5/32	1	100
38238	5/32	1 1/4	100
38239	5/32	1 1/2	100
38240	5/32	1 3/4	100
38241-X	5/32	2	250
38241	5/32	2	100
C81476	5/32	2 1/4	50
38243	5/32	2 1/2	100
38244	5/32	3	100
38246	3/16	1	100
38248	3/16	1 1/2	100
38250	3/16	2	100
38252	3/16	2 1/2	100
38253	3/16	3	100
38254	3/16	3 1/2	100
C81481	3/16	4	100
C14028	1/4	1	25
38259	1/4	1 1/4	100
38259-11/2	1/4	1 1/2	500
MP38259-11/2	1/4	1 1/2	100
38260	1/4	2	100
38262	1/4	2 1/2	100
38263	1/4	3	50
C81482	1/4	3 1/2	10
38265	1/4	4	50
38270	5/16	2	50
38272	5/16	2 1/2	50
38273	5/16	3	50
38275	5/16	4	50
38276	5/16	5	50
38278-3X	3/8	3	250
30555	3/8	3	50
38278-4	3/8	4	50

Cotter Pins (Non-Plated)
Hammer-Lock Type



- Low carbon steel

Part No.	Dia. (In.)	Length (In.)	Unit
34452	1/16	1	100
34462	3/32	1	100
34464	3/32	1 1/2	100
34479	7/8	1 1/2	100
34481	7/8	2	100
†34493	5/32	1 1/2	100
34495	5/32	2	100
34515	3/16	3	100
34532	1/4	3	50
34532-1	3/8	2 1/4	50
34532-2	3/8	2 1/2	50
34532-3	3/8	3 1/2	50
34533†	1/2	4	50
34550	1/2	5	50

†Extended prong type

Extended Prong-Steel

Cotter Pins
Extended Prong Type



- Low carbon steel
- Zinc plated

Part No.	Dia. (In.)	Length (In.)	Unit
C672206	3/64	1/2	500
C672207	3/64	3/4	500
C672208	3/64	1	500
KP35000	1/16	1/2	500
40900	1/16	1/2	100
KP35001	1/16	3/4	500
40901	1/16	3/4	100
KP35002	1/16	1	500
40902	1/16	1	100
40903	1/16	1 1/4	100
KP76234	1/16	1 1/2	250
40904	1/16	1 1/2	100
40905	1/16	2	100
KP35003	3/32	1/2	500
40906	3/32	1/2	100
KP35004	3/32	3/4	500
40907	3/32	3/4	100
KP35005	3/32	1	500
40908	3/32	1	100
KP35006	3/32	1 1/4	250
40909	3/32	1 1/4	100
KP35007	3/32	1 1/2	250
40910	3/32	1 1/2	100
KP35008	3/32	1 3/4	250
40911	3/32	1 3/4	100
KP35009	3/32	2	250
40912	3/32	2	100
40913	3/32	2 1/2	100
KP35010	7/64	1	250
40914	7/64	1	100
KP35063	7/64	1 1/4	250
40915	7/64	1 1/4	100
40916	7/64	1 1/2	100
40917	7/64	1 3/4	100
40918	7/64	2	100
40919	1/8	1/2	100
40920	1/8	3/4	100
KP35011	1/8	1	250
40921	1/8	1	100
KP35012	1/8	1 1/4	250
40922	1/8	1 1/4	100
KP35013	1/8	1 1/2	250
40923	1/8	1 1/2	100
KP35014	1/8	1 3/4	250
40924	1/8	1 3/4	100
KP35015	1/8	2	250
40925	1/8	2	100
40926	1/8	2 1/2	100
KP35016-1	1/8	2 1/2	50
40927	1/8	3	100
KP35017-1	1/8	3	50
40928	5/32	3/4	100
KP35018	5/32	1	250
40929	5/32	1	100
KP35019	5/32	1 1/4	250
40930	5/32	1 1/4	100
KP35020	5/32	1 1/2	250
40931	5/32	1 1/2	100
40932	5/32	1 3/4	100
KP35021-1	5/32	1 3/4	50
40933	5/32	2	100
KP35022-1	5/32	2	50
40934	5/32	2 1/4	100
KP35023-1	5/32	2 1/2	50
40935	5/32	2 1/2	100
40936	5/32	3	100

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Part No.	Dia. (In.)	Length (In.)	Unit
40937	3/16	1	100
40938	3/16	1 1/4	100
40939	3/16	1 1/2	100
40940	3/16	1 3/4	100
40941	3/16	2	100
40942	3/16	2 1/2	100
40943	3/16	3	100
40944	3/16	3 1/2	100
40945	3/16	4	100
KP35033	1/4	1	50
40946	1/4	1 1/4	100
40947	1/4	1 1/2	100
40948	1/4	2	100
KP35035-1	1/4	2	50
40949	1/4	2 1/2	100
KP35036-1	1/4	2 1/2	50
40950	1/4	3	50
KP35037-1	1/4	3	50
KP35038	1/4	3 1/2	50
40951	1/4	4	50
40952	1/4	5	50
40953	1/4	6	50
C80605	5/16	1 1/2	25
40954	5/16	2	50
40955	5/16	2 1/2	50
40956	5/16	3	50
40957	5/16	3 1/2	50
40958	5/16	4	50
40959	5/16	5	50
40960	5/16	6	50
KP35048	3/8	2	25
C80610	3/8	2 1/2	25
40961	3/8	3	50
40962	3/8	3 1/2	50
40963	3/8	4	50
40964	3/8	5	50
40965	3/8	6	50
40966	1/2	3	50
40967	1/2	3 1/2	50
40968	1/2	4	50
40969	1/2	5	50
40970	1/2	6	50

Extended Prong Type Cotter Pins

Canada Only



- Plain finish

Part No.	Dia. (In.)	Length (In.)	Unit
*CD553103	1/16	1/2	100
*CD553104	1/16	3/4	100
*CD553105	1/16	1	100
*CD553106	1/16	1 1/4	100
*CD553107	1/16	1 1/2	100
*CD553108	1/16	2	100
*CD553110	1/16	3	100
*CD553111	5/64	1	100
*CD553112	5/64	1 1/2	100
*CD553114	3/32	1/2	100
*CD553115	3/32	3/4	100
*CD553116	3/32	1	100
*CD553117	3/32	1 1/4	100
*CD553118	3/32	1 1/2	100
*CD553119	3/32	1 3/4	100
*CD553120	3/32	2	100
*CD553121	3/32	2 1/2	100
*CD553122	3/32	3	100
*CD553123	7/64	1	100
*CD553124	7/64	1 1/2	100
*CD553125	7/64	2	100
*CD553127	1/8	3/4	100
*CD553128	1/8	1	100
*CD553129	1/8	1 1/4	100
*CD553130	1/8	1 1/2	100
*CD553132	1/8	2	100
*CD553133	1/8	2 1/2	100
*CD553134	1/8	3	100
*CD553137	5/32	1	100
*CD553138	5/32	1 1/4	100
*CD553139	5/32	1 1/2	100
*CD553140	5/32	1 3/4	100
*CD553141	5/32	2	100
*CD553142	5/32	2 1/2	100
*CD553143	5/32	3	100
*CD553144	3/16	1	100
*CD553145	3/16	1 1/4	100
*CD553146	3/16	1 1/2	100
*CD553147	3/16	2	100
*CD553148	3/16	2 1/2	50
*CD553149	3/16	3	50
*CD553150	3/16	3 1/2	50
*CD553151	3/16	4	50
*CD553171	7/32	2 1/2	50
*CD553152	1/4	1	50
*CD553153	1/4	1 1/2	50
*CD553154	1/4	2	50
*CD553155	1/4	2 1/2	50
*CD553156	1/4	3	50
*CD553157	1/4	4	25
*CD553158	1/4	5	50
*CD553161	5/16	1 1/2	50
*CD553162	5/16	2	25
*CD553163	5/16	3	25
*CD553164	5/16	4	25
*CD553165	5/16	5	25
*CD553166	3/8	2	25
*CD553167	3/8	2 1/2	25
*CD553168	3/8	3	25
*CD553169	3/8	4	10
*CD553170	3/8	6	10
*CD553173	1/2	4	100
*CD553174	1/2	5	100
*CD553175	1/2	6	100

*Canada only

Wedge-Fast-Steel

Wedge-Fast Cotter Pins



- Low carbon steel
- Non-plated

Part No.	Dia. (In.)	Length (In.)	Unit
38277-2	5/16	2	25
38277-21/2	5/16	2 1/2	25
38277-3	5/16	3	25
38275-21/2	3/8	2 1/2	25
38275-3	3/8	3	25

Hair Pin Cotter Pins

Hair Pin Cotter Pins

Large Loop Type



- Spring steel
- Heat treated
- Zinc plated

Part No.	Dia. (In.)	Length (In.)	Unit
2506-1	.062	1 5/16	50
2528-1	.080	1 1/2	50
2528	3/32	2 1/8	100
2506-2	1/8	1 7/8	50
2536	1/8	2 9/16	15
2522	5/32	2 15/16	25
2523	11/64	3 3/8	25
2506	3/16	3 5/8	10
2537	1/4	3 15/16	15
2535	5/16	3 15/16	15

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Small Loop Type

Hair Pin Clevis



- Spring steel
- Heat treated

Part No.	Shaft Dia. (In.)	Length (In.)	Wire Size	Eye I.D. (In.)	Unit
35201	1/8	19/32	.0295	3/16	100
MP35201	1/8	19/32	.0295	3/16	25
C3501	3/16 - 1/4	15/16	.042	1/4	100
35203	1/8	9/16	.049	1/4	100
35209	1/8	3/4	.051	7/64	50
+CD553213	—	1 1/8	.070	—	100
MP35209	1/8	3/4	.051	7/64	25
35204	1/4 - 1/2	1 5/16	.062	5/16	100
MP35204	1/4 - 1/2	1 5/16	.062	5/16	25
C3503	1/4 - 3/8	1 3/16	.080	1/4	100
C674858	3/8 - 1/2	1 9/16	.080	3/8	25
C3504	1/4 - 5/8	2 5/16	.094	5/8	25
C674856	5/8 - 3/4	2 11/16	.125	25/32	25
C3505	5/8 - 1	2 15/16	.149	3/4	25
C88089	5/8 - 1	3 1/4	.177	15/16	25
C674852	7/8 - 1	3 3/4	.177	1 1/32	25
C674851	3/4 - 1	4	.243	15/16	10
C674850	7/8 - 1	4 1/16	.310	7/8	10

+Canada only

External Hair Pins



- Spring steel
- Heat treated
- Black oil finish

Part No.	Groove Dia. (In.)	Length (In.)	Wire Gauge (In.)	Unit
35202	1/16	9/32	.026	100
35200	1/16	23/64	.026	100
35205	3/32	11/32	.026	100
C14264	1/8	31/64	.047	100
35207	9/64	15/32	.032	100
35208	3/16	5/8	.047	50
35210	7/32	11/16	.062	50
35213	9/32	53/64	.062	50
35214	11/32	1	.062	50
C14269	3/8	1 1/16	.072	100

Clevis Pins

Clevis Pins

Single Hole/Exact Length Type



- Low carbon steel
- Zinc plated

Part No.	Dia. (In.)	Useable Lgth. (In.)	OAL (In.)	Hole Dia.	Unit
KP65840	3/16	21/32	3/4	5/64	25
2120	1/4	5/8	49/64	5/64	10
2121	5/16	3/4	15/16	7/64	10
C80162	5/16	15/16	1 1/8	7/64	25
KP9771	3/8	7/8	1 1/16	7/64	25
KP64753	3/8	1 17/64	1 1/2	7/64	25
2123	7/16	1	1 3/16	7/64	10
KP64754	7/16	1 49/64	2	7/64	25
2124	1/2	1 1/8	1 23/64	9/64	10
2476*	1/2	1 11/32	1 1/2	9/64	10
2472	1/2	1 1/2	1 3/4	9/64	10
2475	5/8	1 1/2	1 21/32	9/64	5

* NOTE: 2476 is gold dichromate plated

Single Hole Clevis Pins

Canada Only



- Zinc plating
- Low carbon steel

Part No.	Dia. (In.)	Usable Length (In.)	Overall Length (In.)	Unit
+CD552539	3/16	13/32	1/2	25
+CD552540	3/16	29/32	1	25
+CD552541	3/16	1 5/32	1 1/4	25
+CD552542	3/16	1 13/32	1 1/2	25
+CD552544	3/16	1 29/32	2	25
+CD552546	1/4	1 5/32	1 1/4	25
+CD552547	1/4	1 13/32	1 1/2	25
+CD552548	1/4	1 21/32	1 3/4	25
+CD552549	1/4	1 29/32	2	25
+CD552551	5/16	39/64	3/4	25
+CD552554	5/16	1 39/64	1 3/4	25
+CD552555	5/16	1 55/64	2	25
+CD552557	3/8	27/32	1	25
+CD564677	3/8	1 3/32	1 1/4	25
+CD552558	3/8	1 13/32	1 3/4	25
+CD552559	3/8	1 27/32	2	25
+CD552560	3/8	2 3/32	2 1/4	25
+CD552561	3/8	2 11/32	2 1/2	25
+CD552563	3/8	2 27/32	3	25
+CD552564	7/16	27/32	1	25
+CD552565	7/16	1 11/32	1 1/2	25
+CD552569	1/2	1 3/32	1 1/4	25
+CD552570	1/2	1 27/32	2	25
+CD552571	1/2	2 3/32	2 1/4	25
+CD552573	1/2	2 27/32	3	25
+CD552574	1/2	3 27/32	4	25

+Canada only

Clevis Pins

Multi-Holed/Multi-Length Type

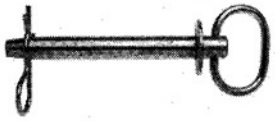


- Low carbon steel
- Holes on 3/16" centers
- Zinc plated

Part No.	Dia. (In.)	Useable Lgth. (In.)	OAL (In.)	Hole Dia.	Unit
2300-1/4	1/4	5/8, 13/16, 1, 1 13/16, 1 3/8, 1 9/16, 1 3/4	2	3/32	10
2300-5/16	5/16	5/8, 13/16, 1, 1 13/16, 1 3/8, 1 9/16, 1 3/4	2	7/64	10
2300-3/8	3/8	5/8, 13/16, 1, 1 13/16, 1 3/8, 1 9/16, 1 3/4	2	7/64	10
2301-7/16	7/16	5/8, 7/8, 1 1/16, 1 3/16, 1 7/16, 1 5/8, 1 3/4	2	7/64	10
2300-7/16	7/16	1 3/16, 1 3/8, 1 9/16, 1 3/4, 1 15/16, 2 1/8, 2 5/16	2 1/2	7/64	10
C16033	7/16	1 7/16, 1 5/8, 1 13/16, 2, 2 3/16, 2 3/8, 2 5/16	3	7/64	10
2301-1/2	1/2	7/16, 5/8, 13/16, 1, 1 3/16, 1 3/8, 1 9/16	2	9/64	10
2300-1/2	1/2	1 3/16, 1 3/8, 1 9/16, 1 3/4, 1 15/16, 2 1/8, 2 5/16	2 1/2	9/64	10
2302-1/2	1/2	1 7/16, 1 5/8, 1 13/16, 2, 2 3/16, 2 3/8, 2 5/16	3	9/64	10
2300-5/8	5/8	1 5/8, 1 13/16, 2, 2 3/16, 2 3/8, 2 5/16, 2 3/4	3	9/64	10
2300-3/4	3/4	1 5/8, 1 13/16, 2, 2 3/16, 2 3/8, 2 5/16, 2 3/4	3	9/64	10

Hitch Pins

Hitch Pins



- Bright zinc plated
- The towed implement has a forked tongue (with holes) that slips over the drawbar and shield in place by a hitch pin
- With hair pin
- High strength steel
- Large pull rings for easy handling

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Part No.	Pin Dia. (In.)	Useable Length (In.)	Unit
C88494	½	3⅝	5
2510	⅝	4¼	5
2520†	⅝	3½	5
C674251	⅝	4½	5
2525-2	⅝	6¼	2
2525-3	¾	4¼	5
2525-4	¾	6¼	2
C674253	⅞	4¼	5
2525-6	⅞	6½	2
C674254	1	4¾	5
2525-7	1	6¼	2
C88500	1	6¾	3
2521*	¾	6¼	2

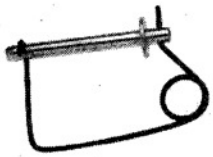
* With linch pin and chain
†Has safety lock retainer

Tension Pin



Part No.	Pin Dia. (In.)	Useable Lgth. (In.)	Unit
KP66845	½	3⅝	5
C674250	¾	3¼	5

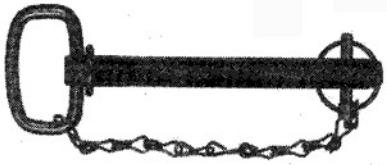
Snap Lock Pin



Part No.	Pin Dia. (In.)	Useable Length (In.)	Unit
C81453	¼	2⅛	5
C81452	5⁄16	2¼	5
C81451†	⅜	2⅜	5
C674259	½	3½	5
C81450	½	4½	2
C81449	⅝	4⅛	2
C674261	¾	4	5
C674264	¾	6	5
C674262	⅞	5½	5
C674263	1	5½	5
C88500	1	6¾	3

* With linch pin and chain

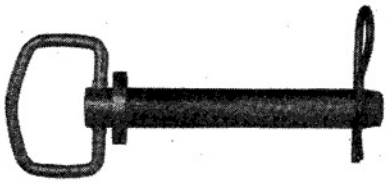
Hitch Pins



- Bright zinc plated
- The towed implement has a forked tongue (with holes) that slips over the drawbar and shield in place by a hitch pin
- With linch pin and retainer chain

Part No.	Pin Dia. (In.)	OAL (In.)	Useable Lgth. (In.)	Unit
2521	¾	7⅞	6¼	2

Hitch Pins



- ¾" diameter
- 4¼" useable space
- Bright zinc plated

Part No.	Description	Unit
2525-3	Hitch Pin	2

Quick Disconnect Pin

PTO Disconnect Pin

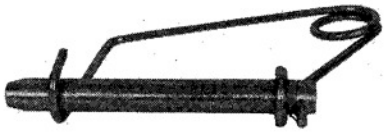


- Quick disconnect pin kit
- Universal use
- Contains pin, spring, and clip

Part No.	Unit
KP72356	2

Lock Pins

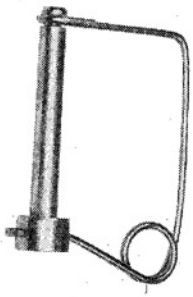
Lox-All Sta-Pin



- Spring steel wire holds pin in place
- High carbon steel pin
- Zinc plated

Part No.	Dia. (In.)	Useable Lgth. (In.)	Unit
+2490	⅝	4¼	1

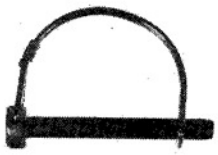
Snap Lock Pin



- Tempered spring-steel
- Snap stays locked
- Zinc plated

Part No.	Dia.	Useable Space	Unit
2490	⅝	4	25

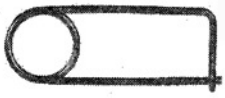
PTO Lock Pin



- Heavy duty pins with a tempered spring-steel snap that stays locked. Use them with confidence to hold wheels securely on shafts, or buckets on ropes and ladders. Not for overhead lifting.

Part No.	Pin Dia. (In.)	Useable L (In.)	Style	Unit
C88492	¼	1¾	Loop	10
C674231	¼	2½	Square	10
C674230	5⁄16	2½	Square	10
2527	5⁄16	2¾	Loop	10

Safety Pins



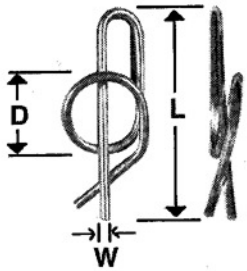
- Heavy-duty cadmium-plated MB spring wire (1.77 diameter)
- 1½" inside width
- 3" inside length
- Fits 3-16" diameter hole
- Applications: fleet, construction, and farm
- Ideal for applications requiring quick release safety catches

Part No.	Description	Unit
2499-5	Safety Pin	5

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Wrap Around Locking Cotter Pin





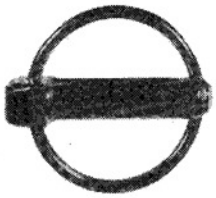


- Surrounds shafts and holds moving parts securely
- Carbon steel, zinc plated

Part No.	Shaft Size (In.)	Wire Size (In.)	Unit
KP80778	.260 to .270	.041	25
KP80779	.323 to .333	.047	25
KP80780	.385 to .395	.054	25
KP80781	.510 to .520	.062	25
KP80782	.635 to .645	.072	10
KP80783	.760 to .770	.091	10
KP80784	1.010 to 1.020	.105	10

Linch Pins

Linch Pin Ring & Assembly

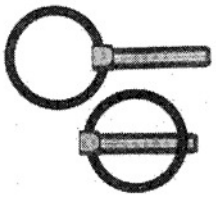


- Without chain

Part No.	Pin Dia. (In.)	Useable Length (In.)	Style	Tractor Category	Unit
2505-3	3/16	1 1/8	No Chain	-	25
2505-1	1/4	1 3/8	No Chain	2, 3	25
C674220	1/4	1 3/4	No Chain	-	10
2505-4	5/16	1 1/2	No Chain	-	25
2504	7/16	1 1/2	With Chain	2, 3	25
2503*	7/16	1 3/4	No Chain	1, 2, 3	5
C674221	7/16	1 3/4	No Chain	-	10
C674222†	7/16	1 3/4	No Chain	-	10

* Black Ring
† 1 7/8" Ring Diameter

Linch Pins



- 7/16" x 2 1/4"
- Heavy-duty

Part No.	Application	Unit
2503	Category 1, 2 and 3 tractors	5

Top Link / Lift Arm Pins

Lift Arm Pin Connection



- Lift arm pins supplied with nut and lock washer

Part No.	Cat.	Shaft Dia. (In.)	Thread Size (In.)	OAL (In.)	Useable Lgth. (In.)	Unit
2512	3	7/8	7/8-14	6 1/4	Adj.	4
2544	1	7/8	7/8-14	6 1/2	2 1/2	2

Top Link Pin Connection



2508



2507, 2507-1

- Top links are attached to tractors and implements by means of top link pins
- Pins vary in length but diameters are standardized
- Top link pins are held in place by passing a linch pin or a hair pin through the hole in the end of the pin

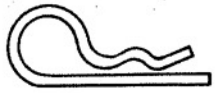
Tractor Category	Ball Hole Dia. (In.)
0	5/8
1	3/4
2	1
3	1 1/4

Top Link Pins (Bright Plated)



Part No.	Category	Approx. Useable Lgth. (In.)	Dia. (In.)	OEM	Unit
2508	1	5	3/4	Ford F381T9	5
2507	1	2 3/4	3/4	Ford 957E560	5
				Ford MF195467MI	
2507-1	1	3 3/8	3/4	Ford MF195589MI	5
				Ford AC339942	

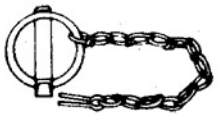
Hair Pins



Part No.	Wire Dia. (In.)	Length. (In.)	Unit
KP1872	3/32	1 5/8	10
KP1874	1/8	1 7/8	10
KP66855	3/32	2	10
2528	3/32	2 1/8	100
2522	5/32	2 15/16	25
2528	3/32	2 1/8	100
2535	5/16	3 5/16	15
2536	1/8	2 9/16	15
2537	1/4	3 15/16	15

Forged Linch Pins (Zinc Plated)





Part No.	Diameter x Usable Length (In.)	Pin Dia. (In.)	Style	Unit
2505-1	1/4 x 1 3/8	1/4	without chain	25
2505	7/16 x 1 3/8	7/16	with chain	25
KP72350	7/16 x 1 31/32	7/16	without chain	10
KP72351	7/16 x 1 31/32	7/16	without chain h.d. ring	10
KP66861	1/4 x 1 9/16	1/4	with chain	10
KP66863	5/16 x 1 9/16	5/16	with chain	10
2504	7/16 x 1 3/8	7/16	with chain	25
KP66859	7/16 x 1 31/32	7/16	with chain	10

Rolled Spring Pins-Steel

Rolled Spring Pins



- Meets SAE J496 specifications
- Carbon steel
- Black oil finish

Part No.	Dia. (In.)	Length (In.)	Unit
35001	1/16	1/4	100
35002	1/16	3/8	100
MP35002	1/16	3/8	25
35003	1/16	1/2	100
MP35003	1/16	1/2	25
35004	1/16	5/8	100
35005	1/16	3/4	100
MP35005	1/16	3/4	25
35006	1/16	1	100
MP35006	1/16	1	25
35007	5/64	1/4	100
35008	5/64	3/8	100
35009	5/64	1/2	100

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Part No.	Dia. (In.)	Length (In.)	Unit
35010	5/64	5/8	100
35011	5/64	3/4	100
35012	5/64	1	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35013	3/32	1/4	100
35014	3/32	3/8	100
35016	3/32	1/2	100
MP35016	3/32	1/2	25
35017	3/32	9/16	100
35018	3/32	5/8	100
MP35018	3/32	5/8	25
35019	3/32	3/4	100
MP35019	3/32	3/4	25
35020	3/32	7/8	100
35021	3/32	1	100
MP35021	3/32	1	25
35022	3/32	1 1/4	100
C84547	3/32	1 1/2	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35023	1/8	3/8	100
35024	1/8	1/2	100
MP35024	1/8	1/2	25
35025	1/8	5/8	100
35026	1/8	3/4	100
MP35026	1/8	3/4	25
35027	1/8	7/8	100
35028	1/8	1	100
MP35028	1/8	1	25
35029	1/8	1 1/4	100
MP35029	1/8	1 1/4	25
35030	1/8	1 1/2	100
MP35030	1/8	1 1/2	25
C84551	1/8	2	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35031	5/32	1/2	100
35032	5/32	5/8	100
35033	5/32	3/4	100
MP35033	5/32	3/4	25
35034	5/32	7/8	100
35035	5/32	1	100
MP35035	5/32	1	10
35036	5/32	1 1/4	100
MP35036	5/32	1 1/4	10
35037	5/32	1 1/2	100
MP35037	5/32	1 1/2	10
C84553	5/32	2	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35038	3/16	1/2	100
35039	3/16	3/4	100
35040	3/16	7/8	100
35041	3/16	1	100
MP35041	3/16	1	10
35042	3/16	1 1/4	100
MP35042	3/16	1 1/4	10
35043	3/16	1 1/2	100
MP35043	3/16	1 1/2	10
35044	3/16	1 3/4	100
35045	3/16	2	100
MP35045	3/16	2	10
C85732	3/16	2 1/2	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35046	7/32	5/8	100
35047	7/32	3/4	100
35048	7/32	1	50
35049	7/32	1 1/4	50
35050	7/32	1 1/2	50
MP35050	7/32	1 1/2	10

Part No.	Dia. (In.)	Length (In.)	Unit
35051	7/32	1 3/4	50
35052	7/32	2	50
MP35052	7/32	2	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35053	1/4	5/8	100
35054	1/4	3/4	100
35055	1/4	1	50
MP35055	1/4	1	10
35056	1/4	1 1/4	50
MP35056	1/4	1 1/4	10
35057	1/4	1 1/2	50
MP35057	1/4	1 1/2	10
35058	1/4	1 3/4	50
35059	1/4	2	25
MP35059	1/4	2	5
35060	1/4	2 1/4	25
35061	1/4	2 1/2	25
35062	1/4	2 3/4	25
35063	1/4	3	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35064	5/16	3/4	100
35065	5/16	7/8	100
35066	5/16	1	50
35067	5/16	1 1/4	50
MP35067	5/16	1 1/4	5
35068	5/16	1 1/2	50
MP35068	5/16	1 1/2	5
35069	5/16	1 3/4	50
35070	5/16	2	25
MP35070	5/16	2	5
35071	5/16	2 1/4	25
35072	5/16	2 1/2	15
35073	5/16	2 3/4	15
35074	5/16	3	15
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35075	3/8	3/4	50
35076	3/8	1	25
35077	3/8	1 1/4	25
35078	3/8	1 1/2	25
MP35078	3/8	1 1/2	5
35079	3/8	1 3/4	25
35080	3/8	2	25
MP35080	3/8	2	5
35081	3/8	2 1/2	15
35082	3/8	3	15
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35083	7/16	1	25
35084	7/16	1 1/4	25
35085	7/16	1 1/2	25
35086	7/16	1 3/4	25
35087	7/16	2	25
35088	7/16	2 1/2	15
35089	7/16	3	15
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
35090	1/2	1 1/2	25
35091	1/2	1 3/4	25
35092	1/2	2	25
35093	1/2	2 1/2	15
35094	1/2	3	15
35095	1/2	3 1/2	10
35096	1/2	4	10

Coiled Spring Pins-Steel

Coiled Steel Spring Pin



- Spring steel
- Heat treated
- Black oil finish
- Chamfered ends
- Meets SAE J496 specifications
- Medium duty

Part No.	Dia. (In.)	Length (In.)	Unit
34969	1/16	1/4	50
34970	1/16	5/16	50
C673305	1/16	1/2	100
34971	1/16	3/4	50
34971-1	1/16	1	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34973	5/64	9/16	50
34973-1	5/64	3/4	50
34973-3	5/64	1	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
C673340	3/32	1/4	100
C673344	3/32	1/2	100
34975	3/32	3/4	50
34976	3/32	5/8	50
34976-3	3/32	1	50
34977	3/32	1 1/8	50
C673354	3/32	1 1/4	100
34977-2	3/32	1 1/2	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34978	1/8	3/8	50
34978-1	1/8	1/2	50
34979	1/8	3/4	50
34979-1	1/8	1	50
34980	1/8	1 1/4	50
34981	1/8	1 1/2	50
34981-1	1/8	1 3/4	50
34981-2	1/8	2	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
C673390	5/32	1/2	100
34982	5/32	3/4	50
34982-7/8	5/32	7/8	50
34982-1	5/32	1	50
34982-11/8	5/32	1 1/8	50
34983	5/32	1 1/4	50
34983-1	5/32	1 1/2	50
34983-2	5/32	1 3/4	50
34983-3	5/32	2	50
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34984	3/16	1/2	50
34984-4	3/16	3/4	50
34984-5	3/16	7/8	50
34985	3/16	1	50
34985-11/8	3/16	1 1/8	25
34985-2	3/16	1 1/4	25
34985-21/2	3/16	1 3/8	25
34985-4	3/16	1 1/2	25
34985-5	3/16	1 3/4	25
34986	3/16	2	25
34986-3	3/16	2 1/2	25

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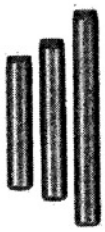
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Part No.	Dia. (In.)	Length (In.)	Unit
C673432	7/32	3/4	100
C673436	7/32	1	100
C673438	7/32	1 1/4	100
34987	7/32	1 3/8	25
C673440	7/32	1 1/2	100
34988	7/32	1 3/4	25
C673444	7/32	2	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34989	1/4	3/4	25
34989-7/8	1/4	7/8	25
34989-1	1/4	1	25
34989-11/8	1/4	1 1/8	25
34990	1/4	1 1/4	25
34990-1	1/4	1 1/2	25
34990-15/8	1/4	1 5/8	25
34990-2	1/4	1 3/4	25
34991	1/4	2	25
34991-1/4	1/4	2 1/4	25
34991-X	1/4	2 1/2	25
34991-1	1/4	3	25
34991-11/4	1/4	3 1/4	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34992	5/16	3/4	25
34992-1	5/16	1	25
34992-6	5/16	1 1/4	25
34993	5/16	1 1/2	25
34993-2	5/16	1 3/4	25
34993-4	5/16	2	25
34993-6	5/16	2 1/2	25
34993-7	5/16	2 3/4	25
KP77424	5/16	3	25

Dowel Pins-Steel

Dowel Pins

Hardened Ground Machine Type



- Meets ANSI/ASME B18.8.2 specifications
- Medium carbon alloy steel
- Through-hardened
- Black oxide finish
- Chamfered one end
- Standard series pin diameter

Part No.	Dia. (In.)	Length (In.)	Unit
40050	1/8	3/8	25
40051	1/8	1/2	25
40052	1/8	5/8	25
40053	1/8	3/4	25
40054	1/8	7/8	25
40055	1/8	1	25
40056	1/8	1 1/4	25
40057	1/8	1 1/2	25
40058	1/8	1 3/4	25
40059	1/8	2	25

Part No.	Dia. (In.)	Length (In.)	Unit
40060	3/16	1/2	25
40061	3/16	5/8	25
40062	3/16	3/4	25
40063	3/16	7/8	25
40064	3/16	1	25
40065	3/16	1 1/4	25
40066	3/16	1 1/2	25
40067	3/16	1 3/4	25
40068	3/16	2	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
40069	1/4	1/2	25
40070	1/4	5/8	25
40071	1/4	3/4	25
40072	1/4	7/8	25
40073	1/4	1	25
40074	1/4	1 1/4	25
40075	1/4	1 1/2	25
40076	1/4	1 3/4	25
40077	1/4	2	25
40078	1/4	2 1/4	25
40079	1/4	2 1/2	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
40080	5/16	1/2	25
40081	5/16	5/8	25
40082	5/16	3/4	25
40083	5/16	7/8	25
40084	5/16	1	25
40085	5/16	1 1/4	25
40086	5/16	1 1/2	25
40087	5/16	1 3/4	25
40088	5/16	2	25
40089	5/16	2 1/4	25
40090	5/16	2 1/2	25
40091	5/16	3	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
40092	3/8	1/2	25
40093	3/8	5/8	25
40094	3/8	3/4	25
40095	3/8	7/8	25
40096	3/8	1	25
40097	3/8	1 1/4	25
40098	3/8	1 1/2	25
40099	3/8	1 3/4	25
40100	3/8	2	25
40101	3/8	2 1/4	25
40102	3/8	2 1/2	25
40103	3/8	3	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
40106	7/16	1	10
40107	7/16	1 1/4	10
40108	7/16	1 1/2	10
40109	7/16	1 3/4	10
40110	7/16	2	10
40112	7/16	2 1/2	10
40113	7/16	3	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
40114	1/2	3/4	10
40115	1/2	1	10
40116	1/2	1 1/4	10
40117	1/2	1 1/2	10
40118	1/2	1 3/4	10
40119	1/2	2	10
40120	1/2	2 1/4	10
40121	1/2	2 1/2	10
40122	1/2	3	10
40123	1/2	3 1/2	10

Part No.	Dia. (In.)	Length (In.)	Unit
40124	1/2	4	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
40126	5/8	1	10
40127	5/8	1 1/4	10
40128	5/8	1 1/2	10
40129	5/8	1 3/4	10
40130	5/8	2	10
40131	5/8	2 1/2	10
40132	5/8	3	10
40133	5/8	3 1/2	10
40134	5/8	4	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
40135	3/4	2	10
40136	3/4	3	10

Dowel Pins (Non-Plated)

Hardened Ground Machine Type



- Meets ANSI/ASME B18.8.2 specifications
- Medium carbon alloy steel
- Through-hardened
- Chamfered one end
- Standard series pin diameter

Part No.	Dia. (In.)	Length (In.)	Unit
34860	1/16	1/2	25
34861	1/16	3/4	25
34862	1/16	1	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34863	3/32	1/4	25
34864	3/32	1/2	25
34865	3/32	5/8	25
34866	3/32	3/4	25
34867	3/32	1	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34870	1/8	3/8	25
34871	1/8	1/2	25
34871-1	1/8	5/8	25
34872		3/4	25
34872-1	1/8	7/8	25
34873	1/8	1	25
34873-1	1/8	1 1/4	25
34874	1/8	1 1/2	25
34874-1	1/8	1 3/4	25
34875	1/8	2	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34878	3/16	1/2	25
34878-1	3/16	5/8	25
34879	3/16	3/4	25
34879-1	3/16	7/8	25
34880	3/16	1	25
34880-1	3/16	1 1/4	25
34881	3/16	1 1/2	25
34881-1	3/16	1 3/4	25
34882	3/16	2	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34885	1/4	1/2	25
34886	1/4	5/8	25
34887	1/4	3/4	25
34887-1	1/4	7/8	25
34888	1/4	1	25
34888-1	1/4	1 1/4	25
34889	1/4	1 1/2	25

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Part No.	Dia. (In.)	Length (In.)	Unit
34889-1	¼	1¾	25
34890	¼	2	25
34891	¼	2¼	25
34892	¼	2½	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34893	5⁄16	½	25
34894	5⁄16	¾	25
34895	5⁄16	1	25
MP34895	5⁄16	1	10
34895-1	5⁄16	1¼	25
34896	5⁄16	1½	25
MP34896	5⁄16	1½	10
34896-1	5⁄16	1¾	25
34897	5⁄16	2	25
KP88870	5⁄16	2½	25
KP88871	5⁄16	3	25
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34900	⅜	½	25
34901	⅜	¾	25
KP88873	⅜	⅞	25
34902	⅜	1	25
MP34902	⅜	1	10
34902-1	⅜	1¼	25
34903	⅜	1½	25
MP34903	⅜	1½	10
34903-1	⅜	1¾	25
34904	⅜	2	25
MP34904	⅜	2	10
34905	⅜	2¼	25
34906	⅜	2½	25
34906-1	⅜	3	25
34907	7⁄16	1	10
34908	7⁄16	1½	10
34909	7⁄16	2	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34911	½	¾	10
34912	½	1	10
34912-1	½	1¼	10
34913	½	1½	10
34913-1	½	1¾	10
34914	½	2	10
34915	½	2¼	10
34916	½	2½	10
34917	½	3	10
34918	½	3½	10
34919	½	4	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34920	⅝	1	10
34921	⅝	1¼	10
34922	⅝	1½	10
34923	⅝	2	10
34924	⅝	2½	10
34925	⅝	3	10
Part No.	**Dia. (In.)**	**Length (In.)**	**Unit**
34930	¾	2	10
34931	¾	2½	10
34932	¾	3	10

Pull Dowel Pins-Steel

Pull Dowel Pins



- Meets ANSI/ASME B18.8.2 specifications
- Alloy steel
- Case hardened
- Machine-ground finish
- Chamfered one end
- Standard series pin diameter

Part No.	Dia. (In.)	Length (In.)	Thread Size	Min. Double Shear Load/Lb.	Unit
35150	¼	¾	8-32	12,800	20
35151	¼	1	8-32	12,800	20
✦CD558437	¼	1¼	6-32	12,800	100
35152	¼	1½	8-32	12,800	20
✦CD558535	¼	2	6-32	12,800	100
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35154	5⁄16	¾	10-32	20,000	20
35155	5⁄16	1	10-32	20,000	20
35156	5⁄16	1¼	10-32	20,000	20
35157	5⁄16	1½	10-32	20,000	20
35158	5⁄16	2	10-32	20,000	20
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35159	⅜	1	10-32	28,700	20
35160	⅜	1¼	10-32	28,700	20
35161	⅜	1½	10-32	28,700	20
35162	⅜	1¾	10-32	28,700	20
35163	⅜	2	10-32	28,700	20
35164	⅜	2½	10-32	28,700	20
35165	⅜	3	10-32	28,700	20
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35166	½	1	¼-20	51,000	20
35167	½	1¼	¼-20	51,000	20
35168	½	1½	¼-20	51,000	20
35169	½	1¾	¼-20	51,000	20
35170	½	2	¼-20	51,000	20
35171	½	2½	¼-20	51,000	20
35172	½	3	¼-20	51,000	20
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35173	⅝	1½	¼-20	79,800	10
35174	⅝	2	¼-20	79,800	10
35175	⅝	2½	¼-20	79,800	10
35176	⅝	3	¼-20	79,800	10
✦CD558988	¾	2	5⁄16-18	66,270	10
✦CD558999	¾	2½	5⁄16-18	66,270	10
✦CD559024	¾	3	5⁄16-18	66,270	10

✦Canada only

Pull Dowel Pins



- Meets ANSI/ASME B18.8.2 specifications
- Alloy steel
- Case hardened
- Plain black finish
- Chamfered one end
- Standard series pin diameter

Part No.	Dia. (In.)	Length (In.)	Thread Size	Min. Double Shear Load/Lb.	Unit
35100	¼	¾			20
35101	¼	1	8-32	12,800	20
35102	¼	1½			20
35103	¼	2			20
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35104	5⁄16	¾			20
35105	5⁄16	1			20
35106	5⁄16	1¼	10-32	20,000	20
35107	5⁄16	1½			20
35108	5⁄16	2			20
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35109	⅜	1			20
35110	⅜	1¼			20
35111	⅜	1½	10-32	28,700	20
35112	⅜	1¾			20
35113	⅜	2			20
35114	⅜	2½			20
35115	⅜	3			20
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35116	½	1			20
35117	½	1¼	¼-20	51,000	20
35118	½	1½			20
35119	½	1¾			20
35120	½	2			20
35121	½	2½			20
35122	½	3			20
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
35123	⅝	1½			10
35124	⅝	2	¼-20	78,900	10
35125	⅝	2½			10
35126	⅝	3			10
¤35127	¾	2			10
¤35128	¾	2½	5⁄16-18	114,000	10
¤35129	¾	3			10
Part No.	**Dia. (In.)**	**Length (In.)**	**Thread Size**	**Min. Double Shear Load/Lb.**	**Unit**
¤35130	1	2			10
¤35131	1	3	⅜-16	204,000	10
¤35132	1	4			10

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Taper Pins-Steel

Taper Pins



- Low carbon steel
- Non-plated
- Recommended for applications where alignment is necessary or where disassembly is frequent

Part No.	Pin Size	Length (In.)	Large Dia. (In.)	Unit
KP64649	2/0	¾	.141	50
KP64650	2/0	1½	.141	50
34820	No. 0 (5/32″)	¾	.156	50
MP34820	No. 0 (5/32″)	¾	.156	25
34821	No. 0 (5/32″)	1	.156	50
MP34821	No. 0 (5/32″)	1	.156	25
34822	No. 0 (5/32″)	1½	.156	50
MP34822	No. 0 (5/32″)	1½	.156	10
34823	No. 0 (5/32″)	2	.156	50
MP34823	No. 0 (5/32″)	2	.156	10
34825	No. 1 (1/64″)	¾	.172	50
MP34825	No. 1 (1/64″)	¾	.172	25
34826	No. 1 (1/64″)	1	.172	50
MP34826	No. 1 (1/64″)	1	.172	25
34827	No. 1 (1/64″)	1½	.172	50
MP34827	No. 1 (1/64″)	1½	.172	10
34828	No. 1 (1/64″)	2	.172	50
MP34828	No. 1 (1/64″)	2	.172	10
34830	No. 2 (3/16″)	¾	.193	50
MP34830	No. 2 (3/16″)	¾	.193	25
34831	No. 2 (3/16″)	1	.193	50
MP34831	No. 2 (3/16″)	1	.193	25
KP64655	No. 2 (3/16)	1¼	.193	50
34832	No. 2 (3/16″)	1½	.193	50
MP34832	No. 2 (3/16″)	1½	.193	10
34833	No. 2 (3/16″)	2	.193	25
MP34833	No. 2 (3/16″)	2	.193	10
34835	No. 3 (7/32″)	¾	.219	50
MP34835	No. 3 (7/32″)	¾	.219	25
34836	No. 3 (7/32″)	1	.219	50
MP34836	No. 3 (7/32″)	1	.219	25
34837	No. 3 (7/32″)	1½	.219	25
MP34837	No. 3 (7/32″)	1½	.219	10
34838	No. 3 (7/32″)	2	.219	25
MP34838	No. 3 (7/32″)	2	.219	10
34839	No. 3 (7/32″)	2½	.219	25
MP34839	No. 3 (7/32″)	2½	.219	10
KP64658	No. 3 (7/32)	3	.219	25
34840	No. 4 (¼″)	1	.250	50
MP34840	No. 4 (¼″)	1	.250	10
34841	No. 4 (¼″)	1½	.250	50
MP34841	No. 4 (¼″)	1½	.250	10
34842	No. 4 (¼″)	2	.250	25
MP34842	No. 4 (¼″)	2	.250	10
34843	No. 4 (¼″)	2½	.250	25
34844	No. 4 (¼″)	3	.250	25
34844-1	No. 4 (¼″)	4	.250	25
34845	No. 5 (19/64″)	1	.289	50
MP34845	No. 5 (19/64″)	1	.289	10
34846	No. 5 (19/64″)	1½	.289	25
MP34846	No. 5 (19/64″)	1½	.289	10
34847	No. 5 (19/64″)	2	.289	25
MP34847	No. 5 (19/64″)	2	.289	10
34848	No. 5 (19/64″)	2¼	.289	25
34849	No. 5 (19/64″)	3	.289	25
34849-1	No. 5 (19/64″)	4	.289	25
34849-2	No. 5 (19/64″)	5	.289	25
34849-3	No. 5 (19/64″)	6	.289	25
34850	No. 6 (11/32″)	1	.341	25
MP34850	No. 6 (11/32″)	1	.341	10
34851	No. 6 (11/32″)	1½	.341	25
MP34851	No. 6 (11/32″)	1½	.341	10
34852	No. 6 (11/32″)	2	.341	20
MP34852	No. 6 (11/32″)	2	.341	10
34853	No. 6 (11/32″)	2½	.341	20
MP34853	No. 6 (11/32″)	2½	.341	10
34854	No. 6 (11/32″)	3	.341	10
34854-1	No. 6 (11/32″)	4	.341	10
34854-2	No. 6 (11/32″)	5	.341	10
34854-3	No. 6 (11/32″)	6	.341	10
34855	No. 7 (13/32″)	1	.409	10
34856	No. 7 (13/32″)	1½	.409	10
34857	No. 7 (13/32″)	2	.409	10
34858	No. 7 (13/32″)	2½	.409	10
34859	No. 7 (13/32″)	3	.409	10
34859-1	No. 7 (13/32″)	4	.409	10
34859-2	No. 7 (13/32″)	5	.409	10
34859-3	No. 7 (13/32″)	6	.409	10
34859-4	No. 8 (½″)	3	.492	10
34859-5	No. 8 (½″)	4	.492	10
34859-6	No. 8 (½″)	5	.492	10
34859-7	No. 8 (½″)	6	.492	10

Internal Retaining Rings-Steel

Internal Retaining Rings

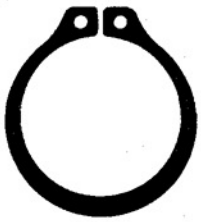


- Carbon spring steel
- Heat treated
- Black oil finish

Part No.	Housing Dia. (In.)	Groove Dia. (In.)	Thickness (In.)	Unit
35249	¼	.268	.015	50
35250	5/16	.330	.015	50
35251	3/8	.397	.025	50
35252	7/16	.461	.025	50
35254	½	.530	.035	50
35255	9/16	.596	.035	50
35256	5/8	.665	.035	50
35257	11/16	.732	.035	50
35258	¾	.796	.035	50
35258-1	13/16	.862	.042	50
35260	7/8	.931	.042	50
35261	15/16	1.000	.042	50
35262	1	1.066	.042	50
C670128	1.023	1.094	.042	25
35262-1	1 1/16	1.130	.050	50
35262-2	1 1/8	1.197	.050	50
35265	1 1/4	1.330	.050	50
35266	1 5/16	1.396	.050	50
35267	1 3/8	1.461	.050	50
35268	1 7/16	1.528	.050	50
35269	1½	1.594	.050	50
35270	1 9/16	1.658	.062	25
35271	1 5/8	1.725	.062	25
35272	1 3/4	1.858	.062	25
35273	1 7/8	1.989	.062	25
35274	2	2.122	.062	25
KP676	2 1/8	2.251	078	15
C92541	2 1/4	2.39	.078	10
KP678	2 3/8	2.517	.078	15
C92542	2½	2.609	.078	10
KP680	2 5/8	2.781	.093	15
C92543	2 3/4	2.906	.093	10
C92544	3	3.172	.093	10

External Retaining Rings-Steel

External Retaining Rings



- Carbon spring steel
- Heat treated
- Black oil finish

Part No.	Shaft Dia. (In.)	Groove Dia. (In.)	Thickness (In.)	Unit
35275*	1/8	.117	.010	50
35277*	3/16	.175	.015	50
35278	¼	.230	.025	50
35280	5/16	.290	.025	50
35282	3/8	.352	.025	50
35283	7/16	.412	.025	50
35285	½	.468	.035	50
C671028	.55	.516	.035	50
35286	9/16	.530	.035	50
35288	5/8	.588	.035	50
35289	11/16	.646	.042	50
35290	¾	.704	.042	50
C84776	25/32	.734	.042	25
35290-1	13/16	.762	.042	50
C671048	27/32	.797	.042	25
35291	7/8	.821	.042	50
35291-1	15/16	.882	.042	50
35293	1	.940	.042	25
35292	1 1/16	.998	.050	25
35293-1	1 1/8	1.059	.050	25
35295	1 3/16	1.118	.050	25
35296	1 1/4	1.176	.050	25
35297	1 5/16	1.232	.050	25

Continued on next page

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Continued from previous page

Part No.	Shaft Dia. (In.)	Groove Dia. (In.)	Thickness (In.)	Unit
35299	1⅜	1.291	.050	10
35298	1⅞	1.350	.050	10
35300	1½	1.406	.050	10
35301	1⅝	1.468	.050	10
35302	1⅝	1.529	.062	10
35303	1¾	1.650	.062	10
35304	1⅞	1.769	.062	10
35305	2	1.886	.062	10
KP693	2⅛	2.003	.078	15
35306	2¼	2.120	.078	10
KP695	2⅜	2.239	.078	15
35307	2½	2.360	.078	10
KP697	2⅝	2.481	.078	10
C92551	2¾	2.609	.093	5
C92552	3	2.828	.093	5

*Berylium Copper

"E" Retaining Rings-Steel

"E" Retaining Rings



- Carbon spring steel
- Heat treated
- Black oil finish

Part No.	Shaft Dia. (In.)	Groove Dia. (In.)	Thickness (In.)	Unit
35226	3⁄32	.074	.015	50
35228	⅛	.095	.015	50
✦CD552118	1⁄16	.052	—	100
35229	9⁄64	.105	.025	50
35230	5⁄32	.116	.025	50
35232	3⁄16	.147	.025	50
35233	7⁄32	.188	.025	50
35234	¼	.210	.025	50
MP35234	¼	.210	.025	25
35236	5⁄16	.250	.025	50
MP35236	5⁄16	.250	.025	25
35238	⅜	.303	.035	50
35239	7⁄16	.343	.035	50
35241	½	.396	.042	50
KP60193	9⁄16	.437	.042	50
35242	⅝	.485	.042	25
35243	¾	.580	.050	25
35244	⅞	.675	.050	25
35245	1	.835	.050	25
✦CD552131	1 3⁄16	1.079	—	50
✦CD552132	1⅜	1.230	—	50

✦Canada only

X-Washer Retaining Rings

X-Washer Retaining Ring

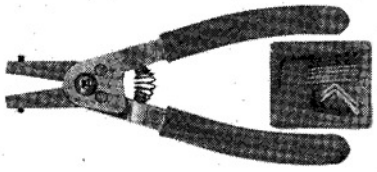


- Steel
- 360° closure
- Zinc plated

Part No.	Shaft Dia. (In.)	Thickness (In.)	Thickness (In.)	Unit
31490	5⁄64	1⁄64	.025	100
31491	3⁄32	3⁄64	.055	100
31492	⅛	3⁄64	.055	100
31493	5⁄32	1⁄16	.065	10
31494	3⁄16	1⁄16	.065	50
31495	7⁄32	1⁄16	.075	50
31496	¼	1⁄16	.075	50
31497	9⁄32	1⁄16	.075	50

Int / Ext Retaining Ring Tool

Internal/External Retaining Ring Tool



- Metal construction
- Unique push-button conversion from internal to external
- Vinyl handles
- Installs internal ring sizes ⅜" through 2" & external ring sizes ¼" through 2"
- Includes straight tips; .036", .047" & .070"
- Includes 90° tips; .036" & .047"

Part No.	Description	Unit
19332	Internal/external retaining ring tool	1

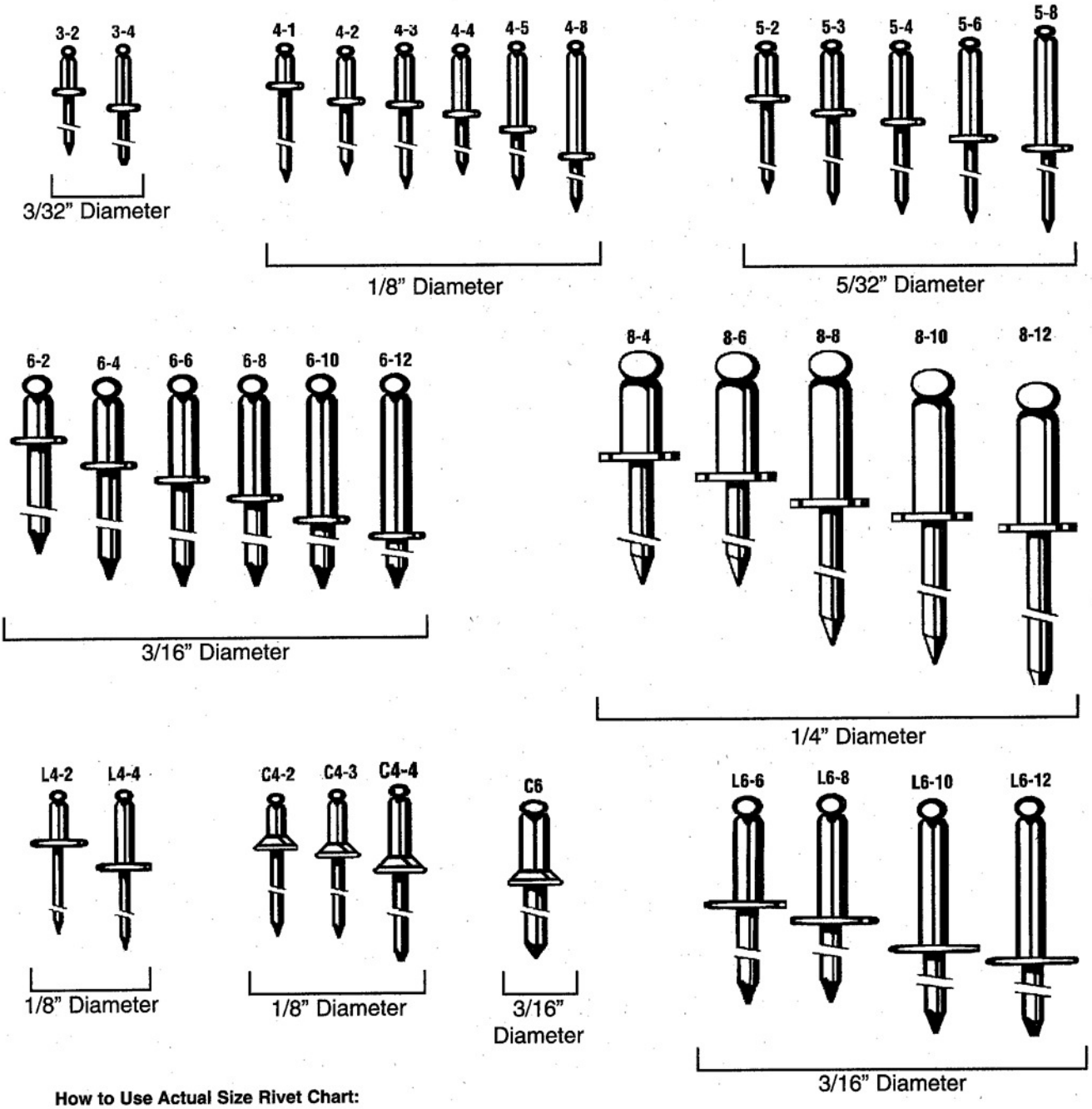
Available in Assortments:
Refer to Part No. BP-197

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Open End Blind Rivets

Button Head Blind Rivet Size Chart

Actual Size



How to Use Actual Size Rivet Chart:

Place rivet on chart, lining up rivet head with chart, Mandrel (nail portion) length does not determine rivet size. If rivet length is between 2 sizes (i.e. 4-2 and 4-3) choose the larger size.

How to find part number:

1. Locate desired size – head designation on chart
2. Locate desired material combination column
3. Correct part number and rivet code number are across from size – head under material combination

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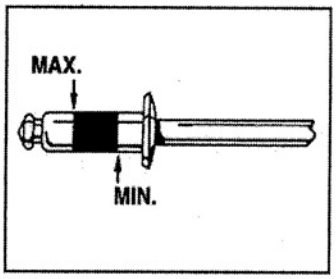
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SELECTING THE CORRECT RIVET

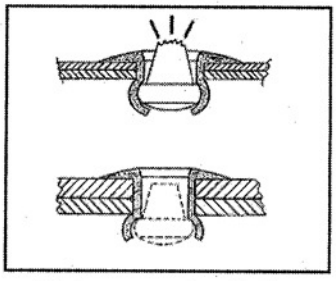
- The shear and tensile strength of the rivet selected and the number of rivets used in the application should equal or exceed the joint strength requirements.
- Determine the total material thickness to be joined; refer to the Grip Range column on the specific page; select the rivet size that equals or exceeds the application thickness. Note the rivet barrel length, Column L, is not the grip range.
- The rivet body alloy, in addition to being chosen for strength requirements, should also be selected for compatibility with the materials to be joined to avoid galvanic corrosion caused by coupling dissimilar metals. If dissimilar metals are widely separated on the galvanic chart, it is advisable to separate them with a dielectric material such as paint of other coating.

GRIP RANGE



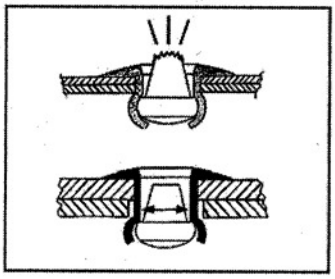
- Material thickness less than or greater than the grip range will result improper setting or failure

MATERIAL THICKNESS



- Under or oversized hole diameter can "pull thru"
- Material thickness greater than the grip range will cause a failure

PULL THRU

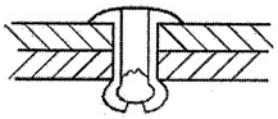


- Material too thin
- Wrong grip range
- Compression of soft material
- Oversized hole

Rivet Head Styles

BUTTONHEAD

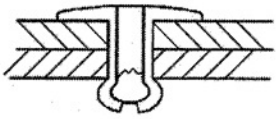




- Low profile head diameter is twice the rivet body diameter, providing adequate bearing surface for nearly all applications

LARGE FLANGE

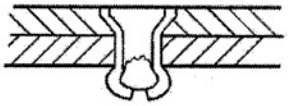




- Provide greater bearing surface for fastening soft or brittle facing materials and oversized holes
- Protects the integrity of the application

120° COUNTERSUNK





- 120° Countersunk rivets are used for applications where a flush appearance is required
- Use with Kar No. 60064, countersink drill

Open-End Blind Rivets



Open-End Blind Rivets Steel Rivet/Steel Mandrel

Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
C650500	3-2	Dome	3/32	.020-1/8	100
C650502	3-4	Dome	3/32	1/8-1/4	100
34111	4-1	Dome	1/8	1/32-1/16	100
KP66077	4-1	Dome	1/8	1/32-1/16	250
34112	4-2	Dome	1/8	1/16-1/8	100
KP60066	4-2	Dome	1/8	1/16-1/8	250
34115	C4-2	Countersunk	1/8	1/16-1/8	100
34156	L4-2	Large Flange	1/8	1/16-1/8	100
34113	4-3	Dome	1/8	1/8-3/16	100
KP66080	4-3	Dome	1/8	1/8-3/16	250
KP7873-1	L4-3	Large Flange	1/8	1/8-3/16	100
C652506	C4-3	Countersunk	1/8	1/8-3/16	100
34114	4-4	Dome	1/8	3/16-1/4	100
C39843	4-4	Dome	1/8	3/16 - 1/4	250
34114-X	4-4	Dome	1/8	3/16-1/4	100
34117	C4-4	Countersunk	1/8	3/16-1/4	100
KP4238	C4-4	Countersunk	1/8	3/16-1/4	250
34117-X	C4-4	Countersunk	1/8	3/16-1/4	1000
KP66083	L4-4	Large Flange	1/8	3/16-1/4	250
34158	L4-4	Large Flange	1/8	3/16-1/4	100
KP7865	4-5	Dome	1/8	1/4-5/16	250
34117-1	4-5	Dome	1/8	1/4-5/16	100
34118	4-6	Dome	1/8	5/16-3/8	100
C39844	4-6	Dome	1/8	5/16-3/8	250
KP7874	L4-6	Large Flange	1/8	1/4-3/8	250
34118-1	4-8	Dome	1/8	3/8-1/2	100
KP66085	4-8	Dome	1/8	3/8-1/2	250
KP7866	4-10	Dome	5/32	1/2-5/8	250
34145	5-2	Dome	5/32	1/16-1/8	100
KP7867	5-3	Dome	5/32	1/8-3/16	250

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Continued from previous page

Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
34147	5-4	Dome	5/32	3/16-1/4	100
KP66090	5-4	Dome	5/32	3/16-1/4	250
34148	5-6	Dome	5/32	1/4-3/8	100
C9139	5-8	Dome	5/32	3/8-1/2	100
KP70610	5-8	Dome	5/32	3/8-1/2	250
34189	6-2	Dome	3/16	1/16-1/8	100
34190	6-4	Dome	3/16	1/8-1/4	100
C39845	6-4	Dome	3/16	1/8-1/4	250
KP83103	L6-4	Large Flange	3/16	1/8-1/4	250
KP83103-1	L6-4	Large Flange	3/16	1/8-1/4	100
C652520	C6-4	Countersunk	3/16	1/8-1/4	100
34191	6-6	Dome	3/16	1/4-3/8	100
KP4240	6-6	Dome	3/16	1/4-3/8	250
34175	L6-6	Large Flange	3/16	1/4-3/8	100
C39846	L6-6	Large Flange	3/16	1/4-3/8	250
34192	6-8	Dome	3/16	3/8-1/2	100
KP66102	6-8	Dome	3/16	3/8-1/2	250
34176-1	L6-8	Large Flange	3/16	3/8-1/2	100
34176-1-3000	L6-8	Large Flange	3/16	3/8-1/2	3000
KP66105	L6-8	Large Flange	3/16	3/8-1/2	250
34193	6-10	Dome	3/16	1/2-5/8	100
KP66108	6-10	Dome	3/16	1/2-5/8	250
34177	L6-10	Large Flange	3/16	1/2-5/8	100
KP66111	L6-10	Large Flange	3/16	1/2-5/8	250
34194	6-12	Dome	3/16	5/8 - 3/4	100
KP66113	6-12	Dome	3/16	5/8-3/4	250
34178	L6-12	Large Flange	3/16	5/8-3/4	100
KP7868	6-14	Dome	3/16	3/4-7/8	250
KP7869-1	6-16	Dome	3/16	7/8-1	100
C88118	8-4	Dome	1/4	1/16-1/4	50
34195	8-6	Dome	1/4	1/4-3/8	100
34196	8-8	Dome	1/4	3/8-1/2	100
C24677	8-10	Dome	1/4	1/2-5/8	50
C88121	8-12	Dome	1/4	1/2-3/4	50
C650552	8-16	Dome	1/4	7/8-1	50

Open-End Blind Rivets
Aluminum Rivets/Steel Mandrel

Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
34167	3-2	Dome	3/32	.020-1/8	100
C650302	3-4	Dome	3/32	1/8-1/4	100
C11363	4-1	Dome	1/8	1/32-1/16	100
34167-1	4-2	Dome	1/8	1/16-1/8	100
KP66078	4-2	Dome	1/8	1/16-1/8	250
C11285	C4-2	Countersunk	1/8	1/16-1/8	100
C11301	L4-2	Large Flange	1/8	1/16-1/8	100
C11286	4-3	Dome	1/8	1/8-3/16	100
KP66081	4-3	Dome	1/8	1/8-3/16	250
KP7895	L4-3	Large Flange	1/8	1/8-3/16	250
KP7895-1	L4-3	Large Flange	1/8	1/8-3/16	100
KP7900-1	C4-3	Countersunk	1/8	1/8-3/16	100
34168	4-4	Dome	1/8	3/16-1/4	100
C39847	4-4	Dome	1/8	3/16-1/4	250
34134	C4-4	Countersunk	1/8	3/16 - 1/4	100
KP70604	4-4	Countersunk	1/8	3/16-1/4	250
KP70602	L4-4	Large Flange	1/8	3/16-1/4	250
C11300	L4-4	Large Flange	1/8	3/16-1/4	100
C650312	4-5	Dome	1/8	1/4-5/16	100
KP7889	4-5	Dome	1/8	1/4-5/16	200
C11309	4-6	Dome	1/8	5/16-3/8	100
C39848	4-6	Dome	1/8	5/16-3/8	250
KP7896-1	L4-6	Large Flange	1/8	5/16-3/8	100
34169	4-8	Dome	1/8	3/8-1/2	100
KP70609	4-8	Dome	1/8	3/8-1/2	250
C11330	5-2	Dome	5/32	1/16-1/8	100
C650332	5-3	Dome	5/32	1/8-3/16	100
C11329	5-4	Dome	5/32	3/16-1/4	100
KP66091	5-4	Dome	5/32	3/16-1/4	250
C11308	5-6	Dome	5/32	1/4-3/8	100
KP66094	5-6	Dome	5/32	1/4-3/8	250
C9140	5-8	Dome	5/32	3/8-1/2	100
C16134	6-2	Dome	3/16	1/16-1/8	100
KP66097	6-2	Dome	3/16	1/16-1/8	250
C11299	6-4	Dome	3/16	1/8-1/4	100
C39849	6-4	Dome	3/16	1/8-1/4	250
KP83104	L6-4	Large Flange	3/16	1/8-1/4	250
KP83104-1	L6-4	Large Flange	3/16	1/8-1/4	100
KP7902-1	C6-4	Countersunk	3/16	1/8-1/4	100
C11393	6-6	Dome	3/16	1/4-3/8	100
KP66099	6-6	Dome	3/16	1/4 - 3/8	250
34142	L6-6	Large Flange	3/16	1/4-3/8	100
C39850	L6-6	Large Flange	3/16	1/4-3/8	250
34142-X	L6-6	Large Flange	3/16	1/4-3/8	1000
C11362	6-8	Dome	3/16	3/8-1/2	100
KP66103	6-8	Dome	3/16	3/8-1/2	250
34143	L6-8	Large Flange	3/16	3/8-1/2	100
C39851	L6-8	Large Flange	3/16	3/8-1/2	250
C11462	6-10	Dome	3/16	1/2-5/8	100
KP66109	6-10	Dome	3/16	1/2-5/8	250
KP66112	L6-10	Large Flange	3/16	1/2-5/8	250
34144	L6-10	Large Flange	3/16	1/2-5/8	100
KP70614	6-12	Dome	3/16	5/8-3/4	250
KP70614-1	6-12	Dome	3/16	5/8-3/4	100
34144-1	L6-12	Large Flange	3/16	5/8-3/4	100
203494	L6-14	Large Flange	3/16	3/4-7/8	500
KP7892	6-16	Dome	3/16	3/4-1	250
KP7892-1	6-16	Dome	3/16	3/4-1	100
C88110	8-4	Dome	1/4	1/16-1/4	50
34215	8-6	Dome	1/4	1/4-3/8	100
34216	8-8	Dome	1/4	3/8-1/2	100
34216-1	8-10	Dome	1/4	1/2-5/8	100
34217	8-12	Dome	1/4	1/2-3/4	100

Open-End Blind Rivets
Aluminum Rivet/Aluminum Mandrel

Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
C650100	3-2	Dome	3/32	.020-1/8	100
34105	3-4	Dome	3/32	1/8-1/4	100
C39852	3-4	Dome	3/32	1/8-1/4	250
34170	4-1	Dome	1/8	1/32-1/16	100
KP66079	4-2	Dome	1/8	1/16-1/8	250
34171	4-2	Dome	1/8	1/8-1/8	100
34171-1*	4-2 WHT	Dome	1/8	1/16-1/8	100
34171-2*	4-2 BLK	Dome	1/8	1/16-1/8	100
34135	C4-2	Countersunk	1/8	1/16-1/8	100
KP70598	L4-2	Large Flange	1/8	1/16-1/8	250
34107	L4-2	Large Flange	1/8	1/16-1/8	100
KP7950	4-3	Dome	1/8	1/8-3/16	50
34172	4-3	Dome	1/8	1/8-3/16	100
KP66082	4-3	Dome	1/8	1/8-3/16	250
34172-X	4-3	Dome	1/8	1/8-3/16	500
KP7855	L4-3	Large Flange	1/8	1/8-3/16	250
KP7855-1	L4-3	Large Flange	1/8	1/8-3/16	100
KP7859	C4-3	Countersunk	1/8	1/8-3/16	250
34173	4-4	Dome	1/8	3/16-1/4	100
C39853	4-4	Dome	1/8	3/16-1/4	250
34173-X	4-4	Dome	1/8	3/16-1/4	500
34173-1*	4-4 WHT	Dome	1/8	3/16-1/4	100
34173-2*	4-4 BLK	Dome	1/8	3/16-1/4	100
34136	C4-4	Countersunk	1/8	3/16-1/4	100
KP70605	C4-4	Countersunk	1/8	3/16-1/4	250
34108	L4-4	Large Flange	1/8	3/16-1/4	100
KP70603	L4-4	Lage Flange	1/8	3/16-1/4	250
34174	4-5	Dome	1/8	1/4-5/16	100
34174-B	4-5	Dome	1/8	1/4-5/16	500
34174-1	4-6	Dome	1/8	5/16-3/8	100
C39854	4-6	Dome	1/8	5/16-3/8	250
34174-1X	4-6	Dome	1/8	5/16-3/8	500
KP7856	L4-6	Large Flange	1/8	1/4-3/8	250
KP7856-1	L4-6	Large Flange	1/8	1/4-3/8	100
KP7860	C4-6	Countersunk	1/8	1/4-3/8	250
34174-X	4-8	Dome	1/8	3/8-1/2	100
34174-XX	4-8	Dome	1/8	3/8-1/2	500
KP7857	L4-8	Large Flange	1/8	3/8-1/2	250
KP7857-1	L4-8	Large Flange	1/8	3/8-1/2	100
34180	4-10	Dome	1/8	1/2-5/8	100
34180-X	4-10	Dome	1/8	1/2-5/8	500
KP66089	5-2	Dome	5/32	1/16-1/8	250
34149	5-2	Dome	5/32	1/16-1/8	100
34149-1	5-3	Dome	5/32	1/8-3/16	100
KP66092	5-4	Dome	5/32	3/16-1/4	250
34150	5-4	Dome	5/32	3/16-1/4	100
KP7861	C5-4	Countersunk	5/32	3/16-1/4	250
34151	5-6	Dome	5/32	1/4-3/8	100
KP66095	5-6	Dome	5/32	1/4-3/8	250
KP70612	5-8	Dome	5/32	3/8-1/2	250
C9141	5-8	Dome	5/32	3/8-1/2	100
34119	6-2	Dome	3/16	1/16-1/8	100
34119-X	6-2	Dome	3/16	1/16-1/8	250
34120	6-4	Dome	3/16	1/8-1/4	100
C39855	6-4	Dome	3/16	1/8-1/4	250
34120-X	6-4	Dome	3/16	1/8-1/4	1000
34110	L6-4	Large Flange	3/16	1/8-1/4	100
KP83105	L6-4	Large Flange	3/16	1/8-1/4	250
KP7862	C6-4	Countersunk	3/16	1/8-1/4	250
C652120	C6-4	Countersunk	3/16	1/8-1/4	100
KP60076	6-6	Dome	3/16	1/4-3/8	250
34121	6-6	Dome	3/16	1/4-3/8	100
34121-X	6-6	Dome	3/16	1/4-3/8	1000
34126	L6-6	Large Flange	3/16	1/4-3/8	100
C39856	L6-6	Large Flange	3/16	1/4-3/8	250
34122	6-8	Dome	3/16	3/8-1/2	100
KP66104	6-8	Dome	3/16	3/8-1/2	250
34122-X	6-8	Dome	3/16	3/8-1/2	1000
34127	L6-8	Large Flange	3/16	3/8-1/2	100
KP66107	L6-8	Large Flange	3/16	3/8-1/2	250
34123	6-10	Dome	3/16	1/2-5/8	100
34123-X	6-10	Dome	3/16	1/2-5/8	250
KP70613	L6-12	Large Flange	3/16	1/2-5/8	250
34128	L6-10	Large Flange	3/16	1/2-5/8	100
34124	6-12	Dome	3/16	5/8-3/4	100
KP70615	6-12	Dome	3/16	5/8-3/4	250
KP7858	L6-12	Large Flange	3/16	5/8-3/4	250
34129	L6-12	Large Flange	3/16	5/8-3/4	100
KP7851	6-14	Dome	3/16	3/4-7/8	250
KP7852	6-16	Dome	3/16	3/4-1	250
C88114	8-4	Dome	1/4	1/16-1/4	50
C88115	8-6	Dome	1/4	1/4-3/8	50
C88116	8-8	Dome	1/4	3/8-1/2	50
C650346	8-10	Dome	1/4	1/2-5/8	50
C88117	8-12	Dome	1/4	1/2-3/4	50
C650150	8-14	Dome	1/4	3/4-7/8	50
C650152	8-16	Dome	1/4	7/8-1	50

Open-End Blind Rivets
Stainless Steel Rivet/
Stainless Steel Mandrel

Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
34125	4-1	Dome	1/8	1/32-1/16	100
34130	4-2	Dome	1/8	1/16-1/8	100
KP70596	4-2	Dome	1/8	1/16-1/8	250
KP7918	L4-2	Large Flange	1/8	1/16-1/8	250
KP7918-1	L4-2	Large Flange	1/8	1/16-1/8	100

Continued on next page

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Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
KP7922	C4-2	Countersunk	1/8	1/16-1/8	250
34130-1	4-3	Dome	1/8	1/8-3/16	100
KP82097	4-3	Dome	1/8	1/8-3/16	250
KP7919	L4-3	Large Flange	1/8	1/8-3/16	250
KP7919-1	L4-3	Large Flange	1/8	1/8-3/16	100
34130-1X	4-3	Dome	1/8	1/8-3/16	500
34130-2	4-4	Dome	1/8	3/16-1/4	100
KP70601	4-4	Dome	1/8	3/16-1/4	250
34130-2X	4-4	Dome	1/8	3/16-1/4	500
KP82101	L4-4	Large Flange	1/8	3/16-1/4	250
KP82101-1	L4-4	Large Flange	1/8	3/16-1/4	100
KP7897	4-5	Dome	1/8	1/4-5/16	250
KP7897-1	4-5	Dome	1/8	1/4-5/16	100
34130-4	4-6	Dome	1/8	5/16-3/8	100
KP70608	4-6	Dome	1/8	5/16-3/8	250
34130-5	4-8	Dome	1/8	3/8-1/2	100
KP7903	4-8	Dome	1/8	3/8-1/2	250
KP7904-1	5-2	Dome	5/32	1/16-1/8	100
KP7905-1	5-3	Dome	5/32	1/8-3/16	100
KP82098	5-4	Dome	5/32	3/16-1/4	100
KP7906	5-6	Dome	5/32	1/4-3/8	250
KP7906-1	5-6	Dome	5/32	1/4-3/8	100
KP7907	5-8	Dome	5/32	3/8-1/2	250
KP7907-1	5-8	Dome	5/32	3/8-1/2	100
C650718	6-2	Dome	3/16	1/16-1/8	100
KP7908	6-2	Dome	3/16	1/16-1/8	250
C650720	6-3	Dome	3/16	1/8-3/16	100
34131	6-4	Dome	3/16	1/8-1/4	100
KP82099	6-4	Dome	3/16	1/8-1/4	250
KP82102	L6-4	Large Flange	3/16	1/8-1/4	250
KP82102-1	L6-4	Large Flange	3/16	1/8-1/4	100
34131-1	6-6	Dome	3/16	1/4-3/8	100
KP82100	6-6	Dome	3/16	1/8-1/4	250
KP82103	L6-6	Large Flange	3/16	1/4-3/8	250
KP82103-1	L6-6	Large Flange	3/16	1/4-3/8	100
34131-2	6-8	Dome	3/16	3/8-1/2	100
KP7909	6-8	Dome	3/16	3/8-1/2	250
KP7920	L6-8	Large Flange	3/16	3/8-1/2	250
KP7920-1	L6-8	Lage Flange	3/16	3/8-1/2	100
KP7910	6-10	Dome	3/16	1/2-5/8	250
KP7910-1	6-10	Dome	3/16	1/2-5/8	100
KP82104	L6-10	Large Flange	3/16	1/2-5/8	250
KP82104-1	L6-10	Large Flange	3/16	1/2-5/8	100
KP7911	6-12	Dome	3/16	5/8-3/4	250
KP7911-1	6-12	Dome	3/16	5/8-3/4	100
C650740	8-4	Dome	1/4	1/16-1/4	25
C650742	8-6	Dome	1/4	1/4-3/8	25
C650744	8-8	Dome	1/4	3/8-1/2	25
KP7916	8-10	Dome	1/4	1/2-5/8	100
KP7917	8-12	Dome	1/4	5/8-3/4	100

Open-End Blind Rivets Stainless Steel Rivet/Steel Mandrel

Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
34106	4-3	Dome	1/8	1/8-3/16	100
C22993	4-4	Dome	1/8	3/16-1/4	100

Open End Blind Rivets Copper Rive/Steel Mandrel

Part No.	Industry No.	Head Style	Rivet Dia. (In.)	Grip Range (In.)	Unit
KP7927	4-2	Dome	1/8	1/16-1/8	100
KP7928	4-4	Dome	1/8	3/16-1/4	100

Open-End Blind Rivets Product Specifications

Industry (In.)	Rivet Dia. (In.)	Drill Size	Head Dia. (In.)
3-2	3/32	41	3/16
3-4	3/32	41	3/16
3-4	3/32	41	3/16
4-1	1/8	30	1/4
4-2	1/8	30	1/4
4-2WHT	1/8	30	1/4
4-2BLK	1/8	30	1/4
C4-2	1/8	30	.240
L4-2	1/8	30	3/8
4-3	1/8	30	1/4
4-4	1/8	30	1/4
4-4WHT	1/8	30	1/4
4-4BLK	1/8	30	1/4
C4-4	1/8	30	.240
L4-4	1/8	30	3/8
4-5	1/8	30	1/4
4-6	1/8	30	1/4
4-8	1/8	30	1/4
4-10	1/8	30	1/4
5-2	5/32	20	5/16
5-3	5/32	20	5/16
5-4	5/32	20	5/16
5-6	5/32	20	5/16
5-8	5/32	20	5/16
6-2	3/16	11	3/8
6-4	3/16	11	3/8
L6-4	3/16	11	5/8
C6-4	3/16	11	.355
L6-6	3/16	11	5/8
6-8	3/16	11	3/8
L6-8	3/16	11	5/8
6-10	3/16	11	3/8
L6-10	3/16	11	5/8
6-12	3/16	11	3/8
L6-12	3/16	11	5/8
8-4	1/4	F	1/2
8-6	1/4	F	1/2
8-8	1/4	F	1/2
8-10	1/4	F	1/2
8-12	1/4	F	1/2
8-14	1/4	F	1/2
8-16	1/4	F	1/2

Open End Multi-Grip Rivets

Open-End Blind Rivet Multi-Grip® Dome Head



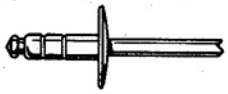
- Avex® replacement

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Length (In.)	Unit
34221	Alum./Steel	1/8	.039 - .189	0.328	100
34221-X	Alum./Steel	1/8	.039 - .189	0.328	2000
34222	Alum./Steel	1/8	.157 - .315	0.468	100
34222-X	Alum./Steel	1/8	.157 - .315	0.468	2000
34222-1	Alum./Steel	1/8	.251 - .437	0.609	100
34223	Alum./Steel	5/32	.047 - .252	0.415	100
34224	Alum./Steel	3/16	.063 - .252	0.440	100
34224-X	Alum./Steel	3/16	.063 - .252	0.440	2000
34225	Alum./Steel	3/16	.187 - .375	0.620	100

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Length (In.)	Unit
34225-X	Alum./Steel	3/16	.187 - .375	0.620	2000
34258	Alum./Steel	3/16	.187 - .437	.730	250
34225-1	Alum./Steel	3/16	.252 - .504	0.731	100
34225-2	Alum./Steel	1/4	.080 - .350	0.615	100
34225-3	Alum./Stnls.	3/16	.062 - .250	0.440	100
C655108	Alum./Stnls.	3/16	.500 - .781	1.125	100

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Length (In.)	Unit
C87603	Steel/Steel	1/8	.047 - .156	0.437	100
KP75807	Steel/Steel	5/32	.056 - .196	.515	50
34226	Steel/Steel	3/16	.047 - .187	0.521	100
34227	Steel/Steel	3/16	.156 - .250	0.638	100

Open-End Blind Rivets Multi-Grip® Large Flange Head



- Avex® replacement

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Length (In.)	Unit
34198-1	Alum./Steel	1/8	.039 - .189	0.328	100
34198-2	Alum./Steel	1/8	.157 - .315	0.468	100
34198-3	Alum./Steel	5/32	.126 - .312	0.500	100
34198-4	Alum./Steel	3/16	.063 - .252	0.440	100
34198-4X	Alum./Steel	3/16	.063 - .252	0.440	2000
34199	Alum./Steel	3/16	.252 - .504	0.731	100
34199-X	Alum./Steel	3/16	.252 - .504	0.731	2000
34199-1	Alum./Steel	3/16	.437 - .750	1.065	100
34199-1X	Alum./Steel	3/16	.437 - .750	1.065	2000

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Length (In.)	Unit
34199-2	Alum./Stnls.	3/16	.063 - .252	0.620	100
34199-3	Alum./Stnls.	3/16	.252 - .504	0.731	100

Open End Blind Rivet Multi-Grip 120° Countersunk Head



- Aluminum with zinc-yellow coated steel mandrel

Part No.	Material	Dia.	Grip Range	Length	Unit
C86916	Alum/Steel	1/8	.074 - .250	3/8	100
C86917	Alum/Steel	5/32	.109 - .313	7/16	100
C86918	Alum/Steel	3/16	.125 - .313	15/32	100
C86919	Alum/Steel	3/16	.250 - .500	5/8	100

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Open End Multi-Grip Brazier Head Rivet



Part No.	Material	Rivet Dia.	Grip Range	Unit
C655116	Alum/Steel	3/16	1/16 - 1/4	100
C655118	Alum/Steel	3/16	3/16 - 7/16	100

Open End Blind Rivet Bulbex® Style-Multi-Grip



- Forms a bulbed blind side tail that disperses clamp load and reduces rivet pull-out

Part No.	Material	Dia. (In.)	Grip Range	Length	Unit
KP80464	Alum/Alum	5/32	.040 - .118	0.62	50
KP80465	Alum/Alum	5/32	.040 - .295	0.84	50
KP80466	Alum/Alum	3/16	.040 - .157	0.72	50
KP80467	Alum/Alum	3/16	.137 - .354	0.93	50

Multi-Grip® Blind Rivet Cross Reference

Part No.	Pop Multi-Grip® Rivets	Avdel/Cherry Avex® Rivets	Stanley Creative Eng.
34221	AD41-43BS	1691-0410	BAS410-MG
34222	AD43-45BS	1691-0414	BAS414-MG
34222-1	AD45-47BS	1691-0416	—
34223	AD52-54BS	1691-0512	BAS512-MG
—	AD53-55BS	1691-0514	BAS516-MG
34224	AD62-64BS	1691-0613	BAS613-MG
34225	AD63-66BS	1691-0619	BAS619-MG
34225-1	AD66-68BS	1691-0621	BAS621-MG
—	AD68-612BS	1691-0631	BAS631-MG
34225-2	AD82-86BS	—	—
34225-3	AD62-64SSBS	1663-0613	—

Part No.	Pop Multi-Grip® Rivets	Avdel/Cherry Avex® Rivets	Stanley Creative Eng.
34226	—	—	—
34227	—	—	—
34198-1	AD41-43BSLF	1692-0410	BLAS412-MG
34198-2	AD43-45BSLF	1692-0414	—
—	AD52-54BSLF	—	BLAS512-MG
34198-3	AD53-55BSLF	1692-0514	—
34198-4	AD62-64BSLF	1692-0613	BLAS613-MG
34199	AD66-68BSLF	1692-0621	BLAS621-MG
34199-2	AD62-64SSBSLF	1643-0613	—
34199-3	AD64-68SSBSLF	1643-0621	—
34199-1	AD68-612SSBSLF	1643-0631	—

Open End Blind Rivet TLR™ Style-Multi-Grip



- Available with neoprene washer for weather resistant fastening
- A blind, structural, bulbed rivet for joining soft or brittle materials
- Requires special TLR nosepiece

Part No.	Material	Dia. (In.)	Grip Range	Length	Unit
KP81909	Alum/Alum	3/16	.020 - .250	0.855	50
*KP81911	Alum/Alum	3/16	.020 - .250	0.855	50
KP81910	Alum/Alum	1/4	.187-.375	1.096	50
*KP81912	Alum/Alum	1/4	.187-.375	1.096	50

* Neoprene washer

TLR Nosepiece

Part No.	Fits Rivet Dia. (In.)	Unit
KP75615	3/16	1
KP75616	1/4	1

Bulb-Tite Rivets

Open End Rivets With Neoprene Washer



- Rivet expands to bulb shape on blind side to distribute the load over a larger area
- Ideal for plastics, fiberglass, and wood applications
- EPDM washer under the head provides a weather resistant seal

Part No.	Material	Dia. (In.)	Grip Range	Length	Unit
35999	Alum/Alum	3/16	.050 - .500	1 3/16	250
34257	Alum/Alum	1/4	.125 - .375	1 1/64	250
249054	Alum/Alum	1/4	.250 - .500	1 1/4	250

Bulb-Tite Rivet Cross Reference

Part No.	Cross-Reference
35999	RV6607-0608W
34257	RV66X253-86W
249054	RV6606-8-8W

Open End Rivets With Neoprene Washer



- Rivet expands to bulb shape on blind side to distribute the load over a larger area
- Ideal for plastics, fiberglass, and wood applications
- EPDM washer under the head provides a weather resistant seal

Part No.	Material	Dia. (In.)	Grip Range	Length	Unit
35999	Alum/Alum	3/16	.050 - .500	1 3/16	250
34257	Alum/Alum	1/4	.125 - .375	1 1/64	250
249054	Alum/Alum	1/4	.250 - .500	1 1/4	250

Bulb-Tite Rivet Cross Reference

Part No.	Cross Reference
35999	RV6607-0608W
34257	RV66X253-86W
249054	RV6606-8-8W

Closed End Blind Rivets

Closed-End Blind Rivets Dome Head



Part No.	Material Rivet/ Mandrel	Industry No.	Rivet Dia. (In.)	Grip Range (In.)	Unit
KP7932	Alum/Steel	4-1	1/8	.032-.062	50
34152	Alum./Steel	4-2	1/8	.063-.125	100
C653506	Alum/Steel	4-3	1/8	.125-.187	200
34153	Alum./Steel	4-4	1/8	.188-.250	100
34154	Alum./Steel	4-6	1/8	.313-.375	100
KP86335	Alum/Steel	5-5	1/8	.188-.312	50
KP86336	Alum/Steel	6-2	3/16	.063-.125	50
2121-411-5000	Alum/Steel	6-2	3/16	.063-.125	5000
2121-411	Alum/Steel	6-2	3/16	.063-.125	500
34207	Alum./Steel	6-4	3/16	.126-.250	100
34208	Alum./Steel	6-6	3/16	.251-.375	100
34208-5000	Alum/Steel	6-6	3/16	.251-.375	5000
34209	Alum./Steel	6-8	3/16	.376-.500	100
34210	Alum./Steel	8-4	1/4	.126-.250	100
34211	Alum./Steel	8-6	1/4	.251-.375	100

Part No.	Material Rivet/ Mandrel	Industry No.	Rivet Dia. (In.)	Grip Range (In.)	Unit
KP7934	Alum/Alum	4-2	1/8	.063-.125	50
C8875034	Alum./Alum.	6-2	3/16	.063-.125	100
KP7939	Alum/Alum	6-4	3/16	.126-.250	50
C8875036	Alum./Alum.	6-6	3/16	.251-.375	100
KP7941	Alum/Alum	6-8	3/16	.376-.500	50
C24676	Alum/Alum	8-10	1/4	.500-.625	100

Part No.	Material Rivet/ Mandrel	Industry No.	Rivet Dia. (In.)	Grip Range (In.)	Unit
34212	Alum./Stnls.	6-4	3/16	.126-.250	100
34213	Alum./Stnls.	6-6	3/16	.251-.375	100

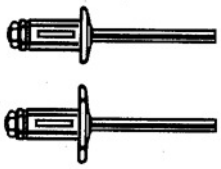
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Split Rivets

Large Secondary Head Rivets (Split Rivets)



- Aluminum rivet and aluminum mandrel

Part No.	Head Type	Rivet Dia. (In.)	Grip Range (In.)	Pop Part No.	Unit
34230	Dome	1/8	.080-.375	ADS46ABS	100
34231	Lg. Flange	3/16	0-.250	ADS64ABSL	100

Ultra-Grip

Structural Rivets Ultra-Grip® Dome Head Blind Rivets



- Monobolt® replacement

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Lgth. Under Head (In.)	Unit
34202	Steel/Steel	3/16	.062 - .270	0.675	25
34202-B	Steel/Steel	3/16	.062 - .270	0.675	250
34203	Steel/Steel	3/16	.062 - .437	0.950	25
34203-B	Steel/Steel	3/16	.062 - .437	0.950	250
34200	Steel/Steel	1/4	.080 - .375	0.970	25
34200-B	Steel/Steel	1/4	.080 - .375	0.970	250
34200-1-2000	Steel/Steel	1/4	.080 - .625	1.405	2000
34200-1	Steel/Steel	1/4	.080 - .625	1.405	25
34200-8-2000	Steel/Steel	1/4	.080 - .375	0.970	2000
34200-1B	Steel/Steel	1/4	.080 - .625	1.405	250

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Lgth. Under Head (In.)	Unit
34204	Alum./Alum.	3/16	.062 - .270	0.675	25
34204-B	Alum./Alum.	3/16	.062 - .270	0.675	250
34205	Alum./Alum.	3/16	.062 - .437	0.950	25
34205-B	Alum./Alum.	3/16	.062 - .437	0.950	250
✦CD552630	Alum./Alum.	1/4	.350 - .625	-	50
34201	Alum./Alum.	1/4	.080 - .375	0.970	25
34201-B	Alum./Alum.	1/4	.080 - .375	0.970	250
34206	Alum./Alum.	1/4	.080 - .625	1.405	25
34206-B	Alum./Alum.	1/4	.080 - .625	1.405	250

Part No.	Material Rivet/ Mandrel	Rivet Dia. (In.)	Grip Range (In.)	Lgth. Under Head (In.)	Unit
34188	Stnls./Stnls.	3/16	.062 - .270	0.675	25
34188-B	Stnls./Stnls.	3/16	.062 - .270	0.675	250
34201-S	Stnls./Stnls.	1/4	.350 - .375	0.970	25
34201-SB	Stnls./Stnls.	1/4	.350 - .375	0.970	250
291040	Steel/Steel	1/4	.125 - .475	0.685	500

✦Canada only

Typical Installed Values in Nominal Grip-Pounds

Material	Dia. (In.)	Shear (psi)	Tensile (psi)	Pin Push-Out
Steel	3/16	1400	1100	150
Steel	1/4	2500	2150	300
Aluminum	3/16	700	500	50
Aluminum	1/4	1300	890	100
Stainless	3/16	1400	1000	125
Stainless	1/4	2500	2000	250

Material and Finish Specifications

	Finish Specification		Material Specification	
	Body	Mandrel	Body	Mandrel
Steel	Zinc Plated with Clear Chromate Finish	Gold Finish	AISI 1006 (Steel)	AISI 10B22 (Steel)
Aluminum	Clear Chromate	Gold Chromate	5056 (Alum.)	7075 (Alum.)
Stainless	No Plate	No Plate	AISI 302 (Stnls.)	AISI 305 (Stnls.)

Ultra-Grip Countersunk Head Structural Rivets



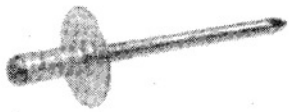
- Monobolt replacement

Part No.	Material	Dia. (In.)	Grip Range	Length	Unit
291040	Steel/Steel	1/4	.125 - .475	.685	500

Ultra-Grip® Blind Rivet Cross Reference

Part No.	Pop Ultra-Grip®	Cherry Monobolt	Avdel Monobolt®	Huck Magna-Lok®
34202	SD6270UG		2771-0613	MGLP-R6-4
34203	SD6437UGX		2771-0617	MGLP-R6-E
34200	SD8375UG		2771-0817	MGLP-R8-6
34200-1	SD8625UGX		2771-0824	MGLP-R8-E
34204	AD6270UG		2774-0613	MGLP-B6-4
34205	AD6437UGX		2774-0617	MGLP-B6-E
34201	AD8375UG		2774-0817	MGLP-B8-6
34208	AD8625UGX		2774-0824	MGLP-B8-E
34188	SSD6270UG		2711-0613	MGLP-U6-4
34201-S	SSD8375UG		2711-0817	MGLP-U8-6

Structural Rivets Multi-Grip



- High Tensile and Shear Strength
- Extended grip range
- Stem breaks flush with rivet head for a smooth, neat finish.

Part No.	Material	Rivet Dia.	Grip Range	Head Dia.	Unit
C656302	Steel/Steel	3/16	.064 - .437	3/8	100
C656306	Alum/Alum	3/16	.064 - .437	3/8	100
C656308	Alum/Alum	1/4	.080 - .625	1/2	100
C656310	Steel/Steel	1/4	.080 - .625	1/2	25

Strength Ratings

Part No.	Shear Strength	Tensile Strength
C656302	1450	1150
C656304	2650	2350
C656306	675	500
C656308	1350	950
C656310	2650	2350

Klamp-Tite Rivet Canada Only



- Fills hole tightly
- High clamp-up
- Water tight capability
- Fully cored
- Structural-self plugging
- Head Styles: protruding
- Aluminum/aluminum

Part No.	Rivet Dia.	Grip Range	Drill Size	D Rivet Dia.	Unit
✦CD553288	.200	.050 - .250	#5	.200	50
✦CD553289	.200	.187 - .375	#5	.200	50
✦CD553290	.200	.312 - .437	#5	.200	50
✦CD553291	.245	.060 - .250	F	.245	25
✦CD553292	.245	.187 - .375	F	.245	25

✦Canada only

Huck Fasteners

Magna-Lok® Rivets Button Head



- Superior strength
- Use for trailer repair
- Weather tight seal

Continued on next page

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Continued from previous page

Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
C23939	MGLP-R6-E	Steel/Steel	3/16	.062 - .437	50
C23938	MGLP-R6-4	Steel/Steel	3/16	.062 - .270	50
C23938-4000	MGLP-R6-4	Steel/Steel	3/16	.062 - .270	4000
291053	MGLP-R6-7	Steel/Steel	3/16	.214 - .437	100
C23940	MGLP-R8-6	Steel/Steel	1/4	.080 - .375	50
C23940-2000	MGLP-R8-6	Steel/Steel	1/4	.080 - .375	2000
291055	MGLP-R8-10	Steel/Steel	1/4	.350 - .625	100
291055-1800	MGLP-R8-10	Steel/Steel	1/4	.350 - .625	1800
C23941	MGLP-R8-E	Steel/Steel	1/4	.080 - .625	50

Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
C23934	MGLP-B6-4	Alum/Alum	3/16	.062 - .270	50
C23935	MGLP-B6-E	Alum/Alum	3/16	.062 - .437	50
C23936	MGLP-B8-6	Alum/Alum	1/4	.080 - .375	50
C23936-2000	MGLP-B8-6	Alum/Alum	1/4	.080 - .375	2000
C23937	MGLP-B8-E	Alum/Alum	1/4	.080 - .375	50

Magna-Lok® Rivets

Truss Head



Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
C23943	MGLT-R6-E	Steel/Steel	3/16	.062-.437	50
C23944	MGLT-R8-6	Steel/Steel	1/4	.080-.375	50

Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
C23942	MGLT-B6-4	Alum/Alum	3/16	.062-.270	50

Magna-Lok® Rivets

Countersunk Head



Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
291057	MGL100-R6-6	Steel/Steel	3/16	.125 - .331	100

Magna-Grip® Rivets

Button Head



- Superior strength
- Use for trailer repair
- Weather light seal

Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
C23951	MGPB-R6-10G	Steel/Steel	3/16	.062 - .625	50
C23951-3000	MGPB-R6-10G	Steel/Steel	3/16	.062 - .625	3000
C23952	MGPB-R6-20G	Steel/Steel	3/16	.312 -1.250	50
C23953	MGPB-R8-10G	Steel/Steel	1/4	.062 - .625	50
C23953-1500	MGPB-R8-10G	Steel/Steel	1/4	.062 - .625	1500
C23954	MGPB-R8-20G	Steel/Steel	1/4	.312 -1.250	50
C23954-1000	MGPB-R8-20G	Steel/Steel	1/4	.312 -1.25	1000

Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
C23950	MGPB-E8-10G	Alum/Alum	1/4	.062 - .625	50

Magna-Grip® Rivets

Truss Head



Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
KP84317	MGPT-R6-20G	Steel/Steel	3/16	.062 - .625	100
C23957	MGPT-R6-10G	Steel/Steel	1/4	.062 - .625	50
C23957-1500	MGPT-R8-20G	Steel/Steel	1/4	.062 - .625	1500
C23958	MGPT-R8-20G	Steel/Steel	1/4	.312 -1.250	50
C23958-1000	MGPT-R8-20G	Steel/Steel	1/4	.312 -1.25	1000

Magna-Grip® Rivets

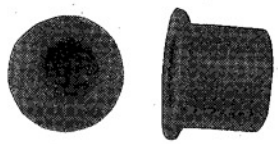
Rivet Head



Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
291058	MGP98T-R6-10G	Steel/Steel	3/16	.062 - .625	100
291058-1000	MGP98T-R6-10G	Steel/Steel	3/16	.062 - .625	2250
KP84318	MGP98T-R6-20G	Steel/Steel	3/16	.312 - 1.25	100

Part No.	Huck Cross Reference	Material	Dia. (In.)	Grip Range	Unit
KP84319	MGP98T-E6-10	Alum/Alum	3/16	.062 - .625	100

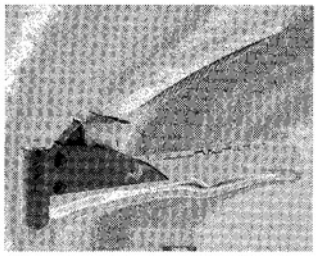
Magna-Grip° Collars



Part No.	Huck Cross Reference	Material	Dia. (In.)	Unit
C23947	MGC-R6U	Steel	3/16	50
C23947-1000	MGC-R6U	Steel	3/16	1000
C23945	MGC-F6	Alum	3/16	50
0941-39-34251	MGCW-R6U	Steel	3/16	100
	MGCW-F6	Alum	3/16	100
C23948	MGC-R8U	Steel	1/4	50
C23948-1000	MGC-R8U	Steel	1/4	1000
C23946	MGC-F8	Alum	1/4	50
158265	MGCW-R8U	Steel	1/4	100

Installation Tools

Rivet Installation Tool POP® PowerLink 30



- Supplied complete with wrench and four nosepieces to set 3/32", 1/8" and 3/16" diameter blind rivets

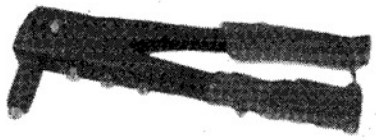
Part No.	Description	Unit
PL30	Rivet Installation Tool	1

Replacement Nosepieces for Rivet Tool Part No. PL30

- Fits open or closed-end

Part No.	Rivet Size (In.)	Unit
PL30-015	3/32	1
PL30-016	1/8	1
PL30-017	5/32	1
PL30-018	3/16	1

Rivet Installation Tool



- Supplied complete with (4) nosepieces to set 3/32", 1/8", 5/32" and 3/16" diameter blind rivets

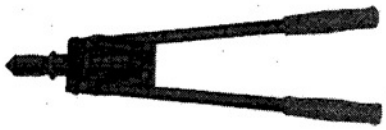
Part No.	Description	Unit
19291	Rivet Installation Tool	1

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Rivet Installation Tool



Supplied complete with (2) nosepieces to set 3⁄16″ and 1⁄4″ diameter blind rivets

Part No.	Description	Unit
19293	Rivet Installation Tool	1

Replacement Nosepieces for Tool Part No. 19293

Part No.	Type of Rivet	Rivet Size	Unit
19295-E	Open-End	1⁄4	1
19296-D	Closed-End	1⁄4	1
19297-A	Ultra-Grip®	3⁄16	1
19297-B	Ultra-Grip®	1⁄4	1

Rivet Tool Jaw Repair Kit

- Repair kit for rivet tool part no. 19293

Part No.	Description	Unit
19293-K	Rivet Tool Jaw Repair Kit	1

Combination Rivet Tool For Standard And Structural Rivets



- Sets all Avex style rivets, standard rivets, as well as 3/16″ diameter structural rivets
- High strength steel construction provides durability
- Designed with longer lever handles to allow 3/16″ diameters rivets to be installed with ease
- Tool supplied with four nosepieces, 1/8″, 5/13″, 3/16″, and 3/16″ structural

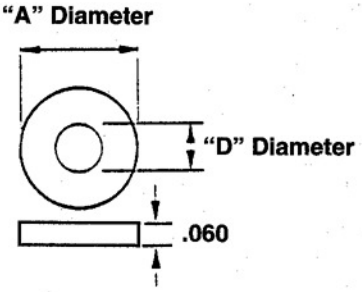
Part No.	Description	Unit
KP74958	Rivet Tool	1

Replacement Parts for KP74958

Part No.	Description	Unit
KP75810	3⁄16" Steel Nosepiece	1
KP77346	Repair Kit	1

Back Up Washers

Back-Up Washers



Part No.	Rivet Dia. (In.)	Material	"A" Diameter	"D" Diameter	Unit
34103	1⁄8	Steel	.375	.129	250
C614954	5⁄32	Steel	.438	.161	100
34104	3⁄16	Steel	.375	.192	250
C614952	3⁄16	Steel	.500	.192	100
KP7930	1⁄4	Steel	.500	.260	50
34100	1⁄8	Aluminum	.375	.129	250
KP80774	5⁄32	Aluminum	.432	.160	50
34101	3⁄16	Aluminum	.375	.192	250
KP7931	1⁄4	Aluminum	.500	.260	50

Solid Aluminum Rivets

Solid Aluminum Rivets



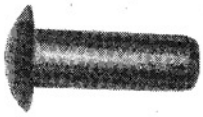
- Full Brazier Head style for large bearing surface
- Available in 2117 T4(Hard) and 1100 F(Soft) aluminum
- 2117 T4 (hard) aluminum rivets are identified by a dimple on the head of the rivet

2117 T4 Part No.	1100 F Part No.	Dia. (In.)	Length (In.)	Unit
324994	324972	3⁄16	1⁄4	500
C31658	31986-5/16	3⁄16	5⁄16	250
CD558900		3⁄16	3⁄8	100
C31659	31986-3/8	3⁄16	3⁄8	250
	325013	3⁄16	3⁄8	500
	31986-3/8-25	3⁄16	3⁄8	25 LB
C31660	31986-7/16	3⁄16	7⁄16	250
CD558898		3⁄16	1⁄2	100
C31661	31986-1/2	3⁄16	1⁄2	250
289801		3⁄16	1⁄2	500
C31661-25	31986-1/2-25	3⁄16	1⁄2	25 LB
C33212	31986-5/8	3⁄16	5⁄8	250
	325012	3⁄16	5⁄8	500
C33212-25		3⁄16	5⁄8	25 LB
C33213	C33215	3⁄16	3⁄4	250
324992		3⁄16	3⁄4	500
324979		1⁄4	3⁄8	500
324979	KP956	1⁄4	3⁄8	500
C31662	C31671	1⁄4	7⁄16	100
C31663		1⁄4	1⁄2	100
	31987-1/2	1⁄4	1⁄2	250
C31663-25	31987-1/2-25	1⁄4	1⁄2	25 LB
KP966	325010	1⁄4	1⁄2	500
C31664	C31673	1⁄4	9⁄16	100
C31665		1⁄4	5⁄8	100
	31987-5/8	1⁄4	5⁄8	250
325015		1⁄4	5⁄8	500
C31665-25	31987-5/8-25	1⁄4	5⁄8	25 LB
C31666		1⁄4	3⁄4	100
	31987-3/4	1⁄4	3⁄4	250
C31666-25	31987-3/4-25	1⁄4	3⁄4	25 LB
324985		1⁄4	7⁄8	500
C33216	C33217	1⁄4	1	100
289816		5⁄16	3⁄4	500
34261		5⁄16	1	250

*Canada only, round head

Modified Brazier Head Style

Solid Aluminum Rivets

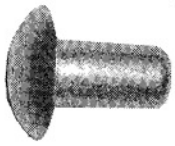


- Modified brazier head is alow profile design
- Available in 2117 T4 (hard) and 1100°F (soft) aluminum

2117 T4 Part No.	1100 F Part No.	Dia. (In.)	Length (In.)	Unit
34262-7/16		5⁄16	7⁄16	500
34262-5/8		5⁄16	5⁄8	500
324991	34265-3/8	1⁄4	3⁄8	500
	34265-1/2	1⁄4	1⁄2	500
	34265-1/2-25	1⁄4	1⁄2	25 LB
	34265-5/8	1⁄4	5⁄8	500
34263-3/4	311863	1⁄4	3⁄4	500
34264-5/8		5⁄16	5⁄8	500
34264-3/4		5⁄16	3⁄4	500

Universal Head Style

Solid Aluminum Rivets



- Universal head is a low profile design with a flat crown
- Available in 2117 (hard) aluminum

2117 T4 Part No.	Dia. (In.)	Length (In.)	Unit
34266-5/16	3⁄16	5⁄16	500
34266-7/16	3⁄16	7⁄16	500
34266-1/2	3⁄16	1⁄2	500
34266-5/8	3⁄16	5⁄8	500
34267-3/8	1⁄4	3⁄8	500
34267-7/16	1⁄4	7⁄16	500
34267-1/2	1⁄4	1⁄2	500
34267-5/8	1⁄4	5⁄8	500
34268-1/2	5⁄16	1⁄2	500
289847	5⁄16	5⁄8	500

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Sign Attaching Rivets

Sign Attaching Rivets – Two Piece



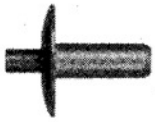
- Large flange heads
- 600 lb. Tensile strength
- Aluminum with steel mandrel.

Part No.	Hole Size	Grip Range	Head Size	Unit
C85982	1/4	7/8-1 1/8	5/8	50
C85983	1/4	1 1/8-1 3/8	5/8	50
C85984	1/4	1 3/8-1 5/8	5/8	50

Aluminum Drive Pin Rivets

Aluminum Drive Pin Rivets

Steel Drive Pin Type



Large Diameter Plywood Head

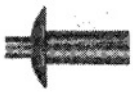
Part No.	Dia. (In.)	Length (In.)	Nom. Grip (In.)	Unit
39817	3/16	13/32	5/16	250
C81295	3/16	11/16	1/2	50
C81296	3/16	3/4	5/8	50
C81298	3/16	1 1/8	1	50



Universal Button Head

Part No.	Dia. (In.)	Length (In.)	Nom. Grip (In.)	Unit
C15155	3/16	1/4	1/8	100
31984-1/8	3/16	9/32	1/8	500
31984-3/16	3/16	11/32	3/16	500
31984-1/4	3/16	13/32	1/4	500
31984-5/16	3/16	15/32	5/16	250
C15159	3/16	1/2	3/8	100
31984-3/8	3/16	17/32	3/8	500
31985-2‡	3/16	1 1/32	7/8	100
C15160*	1/4	1/4	1/8	100
31985-1/8	1/4	9/32	1/8	500
31985-3/16	1/4	11/32	3/16	500
31985-1/4	1/4	13/32	1/4	500
31985-5/16	1/4	15/32	5/16	500
31985-3/8	1/4	17/32	3/8	500

*9/16" Head Size



"Full Brazier"

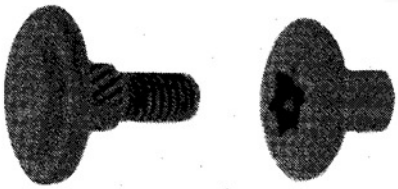
Full Brazier Head

Part No.	Dia. (In.)	Length (In.)	Nom. Grip (In.)	Unit
31983-3/32	3/16	1/4	3/32	500
31983-1/8	3/16	9/32	1/8	500
31983-3/16	3/16	11/32	3/16	500
31983-1/4	3/16	13/32	1/4	500
31983-5/16	3/16	15/32	5/16	250
31983-3/8	3/16	17/32	3/8	500
31983-1/2	3/16	21/32	1/2	500
KP73438	1/4	11/32	3/16	500
KP73439	1/4	13/32	1/4	500
KP73440	1/4	15/32	5/16	500
KP73441	1/4	17/32	3/8	500
KP73442	1/4	19/32	7/16	500
31982-1/2	1/4	21/32	1/2	500

NOTE: Grip Range = minimum to maximum material thickness that can be fastened.
‡ Supplied with stainless steel pin, can also be used as a masonry fastener.

Panel-Lok

Panel-Lok Fasteners

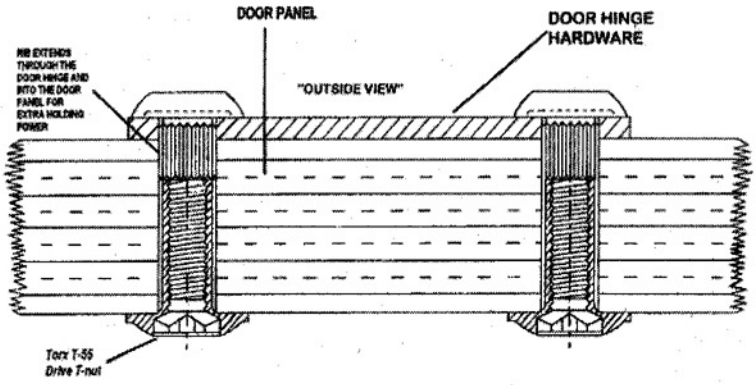


- Excellent for (FRP) and Swingdoor applications
- Durable-life cycle tests show panel-lok outlasts other door hardware
- Large diameter head and radius fillet allows for high clamp load
- Design is tamper resistant
- Use a Torx 55 bit for installation
- Hole Size: .397 (letter X drill bit)
- Cadmium plated with chromium finish.

Part No.	Description	Dia.	Length (In.)	Unit
*KP485	Bolt	5/16-18	7/8	25
*KP486	Bolt	5/16-18	1	25
*KP487	Bolt	5/16-18	1 1/4	25
C32102	Bolt	5/16-18	7/8	10
C29713	Bolt	5/16-18	1	10
C29714	Bolt	5/16-18	1 1/4	10
C32103	Nut	5/16-18	1/2	10
C29715	Nut	5/16-18	5/8	10

* Encapsulated head

ABM Panelok™ System



ABM Panelok™

- ABM Panelok System offers a reliable solution to broken trailer swing door hardware fasteners
- Highly durable - proven to outlast other door hardware fasteners in door simulator life cycle testing
- Rib-neck bolt design protrudes through hinge plate into door for added strength and grip
- Tamper ersistant - exposed bolt head is smooth; install "T" nuts from inside trailer door using a TORX T-55 bit
- Uses letter size "x" drill bit for pilot hole during installation
- Made in U.S.A.

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Door Panel Rivet

Door Panel Rivet

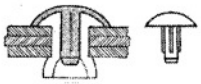


- Replacement for carriage and elevator bolts on roll-up doors on trucks and delivery vans
- Two piece rivet sets with any standard rivet tool or power riveter
- Aluminum outer piece prevents rusting or bleeding on doors
- Steel inside piece provides a strong vibration-proof assembly

Part No.	Size	Grip Range (In.)	Door Size (In.)	Unit
KP84336	¼ x 1	.769 - .858	¾	100

Rivet Umbrella Plugs

Rivet Plugs



- "Umbrella" Plugs
- Anodized aluminum
- Plugs fit over head of rivet.

Part No.	Head Size	Use With Rivet Dia.	Unit
C659900	5⁄16	⅛	50
C659904	7⁄16	3⁄16	50

Double End Countersink Drill



- Use for 120 countersink for 1/8" countersink head rivets

Part No.	Unit
KP60064	1

B7 Threaded Rod

B7 Threaded Rod Stock



BOWMAN Gold Unichrome PLATING™

- UNC (USS) or UNF (SAE)
- Meets ASTM A193-B7 specifications
- Medium carbon alloy steel
- Through-hardened
- 125,000 psi minimum tensile strength

UNC (USS) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
36665	12	¼	20	5
36666	12	5⁄16	18	5
36667	12	⅜	16	5

UNC (USS) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
36675	36	¼	20	1
36676	36	5⁄16	18	1
36677	36	⅜	16	1
36678	36	7⁄16	14	1
36679	36	½	13	1
36679-1	36	9⁄16	12	1
36680	36	⅝	11	1
36681	36	¾	10	1
36682	36	⅞	9	1
36683	36	1	8	1
36684†	36	1⅛	8	1
36686	36	1⅛	7	1
36685†	36	1¼	8	1
36687	36	1¼	7	1
C680728	36	1½	6	1
C680730	36	1¾	5	1

UNC (USS) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
36688	72	¼	20	1
36688-1	5⁄16	⅜	18	1
36689	72	⅜	16	1
36689-1	72	7⁄16	14	1
36690	72	½	13	1
36690-1	72	9⁄16	12	1
36691N	72	⅝	11	1
36692N	72	¾	10	1
36693	72	⅞	9	1
36694	72	1	8	1
36695†	72	1⅛	8	1
36698	72	1⅛	7	1
36696†	72	1¼	8	1
36699	72	1¼	7	1
36697†	72	1½	8	1
36700	72	1½	6	1

†BUN Thread Series

UNF (SAE) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
36650	12	¼	28	5
36651	12	5⁄16	24	5
36652	12	⅜	24	5

UNF (SAE) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
36915	36	¼	28	1
36916	36	5⁄16	24	1
36917	36	⅜	24	1
36918	36	7⁄16	20	1
36919	36	½	20	1
36919-1	36	9⁄16	18	1
36920	36	⅝	18	1
36921	36	¾	16	1
36922	36	⅞	14	1
36923	36	1	14	1
KP77844	36	1⅛	12	1
36925	36	1¼	12	1

NOTE: Part nos. 36684 and 36695 are to be used with 2H heavy hex nut part no. 36661. Part nos. 36685 and 36696 are to be used with part no. 36662. Part no. 36697 is to be used with part no. 36663.

B-7 Alloy Threaded Rod

Black Finish
Canada Only



- Hi-tensile 4140 alloy steel 125,000 P.S.I.
- Meets ASTM-A193 specifications
- 3 ft. lengths

UNC Part No.	Size	Unit
✦CD558680	¼-20	1
✦CD559818	5⁄16-18	1
✦CD559449	⅜-16	1
✦CD560734	7⁄16-14	1
✦CD557925	½-13	1
✦CD561056	9⁄16-12	1
✦CD560197	⅝-11	1
✦CD559098	¾-10	1
✦CD560938	⅞-9	1
✦CD556926	1-8	1
✦CD557351	1⅛-7	1
✦CD557254	1¼-7	1
✦CD557207	1½-6	1

UNF Part No.	Size	Unit
✦CD558681	¼-28	1
✦CD559819	5⁄16-24	1
✦CD559450	⅜-24	1
✦CD560735	7⁄16-20	1
✦CD557926	½-20	1
✦CD560198	⅝-18	1
✦CD559099	¾-16	1
✦CD560939	⅞-14	1
✦CD556927	1-14	1
✦CD563332	1¼-12	1

✦Canada only

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Low Carbon Threaded Rod

Threaded Rod Stock



BOWMAN Unichrome PLATING™

- UNC (USS) or UNF (SAE)
- Low carbon steel
- Use with low carbon steel rod couplers

UNC (USS) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
32488	12	¼	20	5
32489	12	5/16	18	5
32490	12	⅜	16	5
32492	12	½	13	2

UNC (USS) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
32472	36	No. 6	32	5
32473	36	No. 8	32	1
32474	36	No. 10	24	1
32475	36	¼	20	1
32476	36	5/16	18	1
32477	36	⅜	16	1
32478	36	7/16	14	1
32479	36	½	13	1
32479-1	36	9/16	12	1
32480	36	⅝	11	1
32481	36	¾	10	1
32481-1	36	⅞	9	1
32482	36	1	8	1
*CD557256	36	1¼	7	1

UNF (SAE) Part No.	Length (In.)	Dia. (In.)	TPI	Unit
32465	72	¼	20	1
32466	72	5/16	18	1
32467N	72	⅜	16	1
32469N	72	½	13	1
32470	72	⅝	11	1
32471	72	¾	10	1
32471-1	72	1	8	1

UNF (SAE) Part No.	Length (In.)	Dia.	TPI	Unit
32482-2	36	No. 10	32	1
32483	36	¼	28	1
32484	36	5/16	24	1
32485	36	⅜	24	1
32486	36	7/16	20	1
32487	36	½	20	1
32489-1	36	⅝	18	1
32490-1	36	¾	16	1
32491-1	36	⅞	14	1

Available in Assortments:
Refer to Part No. BP- 455
*Canada only

Threaded Rod Stock (Non-Plated) - *Canada Only



- UNC (USS)
- Low carbon steel

Part No.	Length (In.)	Dia. (In.)	TPI	Unit
*52300	36	¼	20	1
*52301	36	5/16	18	1
*52302	36	⅜	16	1
*52303	36	7/16	14	1
*52304	36	½	13	1
*52305	36	⅝	11	1
*52306	36	¾	10	1
*52307	36	⅞	9	1
*52308	36	1	8	1
*CD557352	36	1⅛	7	1
*CD557255	36	1¼	7	1
*CD557257	36	1¼	12	1
*CD557208	36	1½	12	1

*Canada only

Coupling Nuts

Threaded Rod Couplers



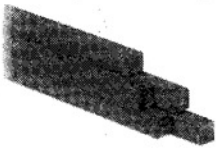
BOWMAN Unichrome PLATING™

- UNC (USS)
- Low carbon steel
- Use with low carbon steel threaded rod stock

UNC (USS) Part No.	Length	Size	TPI	Unit
36668	½	No. 6	32	50
36668-1	⅝	No. 8	32	50
36668-2	¾	No. 10	24	50
36670	⅞	¼	20	50
36671	1¾	5/16	18	50
36672	1¾	⅜	16	50
36672-1	1¾	7/16	14	50
36673	1¾	½	13	50
36674	2⅛	9/16	12	25
36674-1	2⅛	⅝	11	25
36674-2	2¼	¾	10	25
36674-3	2½	⅞	9	5
36674-4	2¾	1	8	5

Square Keystock

Keystock - Square



- Cold drawn steel
- 12″ length

Non Plated .002″ Undersize

Part No.	Size (In.)	Unit
33960	⅛ x ⅛	5
33961	3/16 x 3/16	5
33962	¼ x ¼	5
33963	5/16 x 5/16	5
33964	⅜ x ⅜	5
33965	7/16 x 7/16	2
33966	½ x ½	2
33967	9/16 x 9/16	2
33968	⅝ x ⅝	2
33969	¾ x ¾	2
33970	⅞ x ⅞	2
33971	1 x 1	2

.002″ Oversize

Zinc Part No.	Non-Plated Part No.	Size (In.)	Unit
33974		⅛ x ⅛	5
33975		3/16 x 3/16	5
33976	C676404	¼ x ¼	5
33977	C676405	5/16 x 5/16	5
33978	C676406	⅜ x ⅜	5
33979-1		7/16 x 7/16	2
	C676407	7/16 x 7/16	5
33979		½ x ½	2
	C676408	½ x ½	5
33979-3		9/16 x 9/16	2
	C676409	9/16 x 9/16	5
33980		⅝ x ⅝	2
	C676410	⅝ x ⅝	5
33981		¾ x ¾	2
	C676412	¾ x ¾	1
33983		⅞ x ⅞	2
	C676416	⅞ x ⅞	1
33984		1 x 1	2

.002 Undersized - 36″ Length

Part No.	Size (In.)	Unit
KP25950	⅛ x ⅛	2
KP25951	3/16 x 3/16	2
KP25952	¼ x ¼	2
KP25953	5/16 x 5/16	2
KP25954	⅜ x ⅜	2
KP25955	½ x ½	1
KP25956	⅝ x ⅝	1
KP25957	¾ x ¾	1
KP25958	⅞ x ⅞	1
KP25959*	1 x 1	1

* .003 Undersized

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Square Key Stock
Canada Only



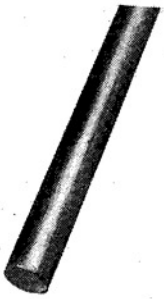
- Zinc plating
- Cold drawn steel
- Tolerance .000 to +.005
- 12″ length

Part No.	Size (In.)	Unit
✦CD552575	3⁄16 X 1⁄8	5
✦CD552576	1⁄4 X 1⁄8	5
✦CD552577	1⁄4 X 3⁄16	5
✦CD552579	5⁄16 X 1⁄4	5
✦CD552581	3⁄8 X 1⁄4	5
✦CD552582	3⁄8 X 5⁄16	5
✦CD552583	1⁄2 X 1⁄4	5
✦CD552585	1⁄2 X 3⁄8	5
✦CD552588	5⁄8 X 1⁄2	5

✦Canada only

Round Keystock

Keystock – Round



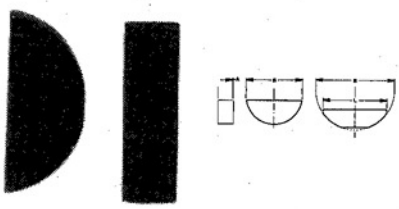
- Zinc plating
- Ends are color-coded for easy identification
- 36" Length

Part No.	Size (In.)	Color	Unit
KP66901*	1⁄8	None	6
KP66902*	3⁄16	None	6
KP66903*	1⁄4	None	6
KP66904*	5⁄16	None	6
C676606	3⁄8	Yellow	3
C676607	7⁄16	Green	3
C676608	1⁄2	Blue	3
C676609	9⁄16	Brown	1
C676610	5⁄8	Red	1
C676612	3⁄4	Yellow	1
C676614	7⁄8	Green	1
C676616	1	Red	1

* Electro Copper Plated

Woodruff Keys

Woodruff Keys



- Cold drawn steel
- Non plated

Part No.	A x B (In.)	Ind. No.	Unit
C12301	1⁄16 x 1⁄2	1	50
MPC12301	1⁄16 x 1⁄2	1	10
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
31950-3	3⁄32 x 3⁄8	212	50
31950-1	3⁄32 x 1⁄2	2	50
MP31950-1	3⁄32 x 1⁄2	2	10
31951-1	3⁄32 x 5⁄8	4	50
MP31951-1	3⁄32 x 5⁄8	4	10
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
31950-2	1⁄8 x 3⁄8	213	50
31950	1⁄8 x 1⁄2	3	50
MP31950	1⁄8 x 1⁄2	3	10
31951	1⁄8 x 5⁄8	5	50
MP31951	1⁄8 x 5⁄8	5	10
31952-1	1⁄8 x 3⁄4	7	50
MP31952-1	1⁄8 x 3⁄4	7	10
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
31952	5⁄32 x 5⁄8	6	50
MP31952	5⁄32 x 5⁄8	6	10
31953	5⁄32 x 3⁄4	8	50
MP31953	5⁄32 x 3⁄4	8	10
31953-2	5⁄32 x 7⁄8	10	100
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
31953-1	3⁄16 x 5⁄8	61	50
MP31953-1	3⁄16 x 5⁄8	61	10
31954	3⁄16 x 3⁄4	9	50
MP31954	3⁄16 x 3⁄4	9	10
31955	3⁄16 x 7⁄8	11	50
31956	3⁄16 x 1	13	25
MP31956	3⁄16 x 1	13	5
31956-1	3⁄16 x 1 1⁄8	16	25
MP31956-1	3⁄16 x 1 1⁄8	16	5
31957	3⁄16 x 1 1⁄4	19	25
MP31957	3⁄16 x 1 1⁄4	19	5
31957-1*	3⁄16 x 2 1⁄8	126	25
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
31957-4	7⁄32 x 7⁄8	12	50
31957-5	7⁄32 x 1	14	25
31957-2	7⁄32 x 1 1⁄8	17	25
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
31957-3	1⁄4 x 3⁄4	91	25
MP31957-3	1⁄4 x 3⁄4	91	5
31958	1⁄4 x 7⁄8	A	25
MP31958	1⁄4 x 7⁄8	A	5
31959	1⁄4 x 1	15	25
MP31959	1⁄4 x 1	15	5
31959-1	1⁄4 x 1 1⁄8	18	25
31960	1⁄4 x 1 1⁄4	21	25
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
MP31960	1⁄4 x 1 1⁄4	21	5
31961	1⁄4 x 1 3⁄8	22	25
31962	1⁄4 x 1 1⁄2	24	25
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
31963	5⁄16 x 1	B	25
MP31963	5⁄16 x 1	B	5
31964	5⁄16 x 1 1⁄8	C	25
MP31964	5⁄16 x 1 1⁄8	C	5
31965	5⁄16 x 1 1⁄4	D	25
MP31965	5⁄16 x 1 1⁄4	D	5
31966	5⁄16 x 1 3⁄8	23	25
Part No.	**A x B (In.)**	**Ind. No.**	**Unit**
C676208	3⁄8 x 1	152	25
31968	3⁄8 x 1 1⁄4	E	25
31969	3⁄8 x 1 3⁄8	F	25

*Actual Length ("L" is 1.380 inch)

Oil Hardening Drill Rod

Oil Hardening Drill Rod



- AISI/SAE Grade 0-1
- Ground and polished tool steel rounds
- Non-shrinking, general-purpose tool steel characteristics for screw-machining operations and pin, shaft, punch, plug, drill and die production
- Abrasion resistant
- Three-foot length

Inch Series

Part No.	Dia. (In.)	Unit
34590-1/16	1⁄16	2
¤34590-5/64	5⁄64	2
34590-3/32	3⁄32	2
¤34590-7/64	7⁄64	2
34590-1/8	1⁄8	2
34590-9/64	9⁄64	2
34590-5/32	5⁄32	2
¤34590-11/64	11⁄64	2
34590-3/16	3⁄16	2
34590-1364	13⁄64	2
34590-7/32	7⁄32	2
34590-1564	15⁄64	2
34590-1/4	1⁄4	2
¤34590-17/64	17⁄64	2
34590-9/32	9⁄32	2
¤34590-19/64	19⁄64	2
34590-5/16	5⁄16	2
¤34590-21/64	21⁄64	2
34590-1132	11⁄32	2
¤34590-23/64	23⁄64	2
34590-3/8	3⁄8	2
¤34590-13/32	13⁄32	2
¤34590-27/64	27⁄64	2
34590-7/16	7⁄16	2
¤34590-29/64	29⁄64	2
¤34590-15/32	15⁄32	2
¤34590-31/64	31⁄64	2
34590-1/2	1⁄2	1
¤34590-33/64	33⁄64	1
34590-9/16	9⁄16	1
34590-5/8	5⁄8	1
¤34590-21/32	21⁄32	1
¤34590-43/64	43⁄64	1

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Miscellaneous Fasteners

Continued from previous page

Part No.	Dia. (In.)	Unit
34590-1116	1 1/16	1
¤34590-23/32	23/32	1
34590-3/4	3/4	1
34590-7/8	7/8	1
¤34590-63/64	63/64	1
34590-1	1	1
34590-11/8	1 1/8	1
34590-11/4	1 1/4	1
34590-11/2	1 1/2	1
34590-2	2	1

Metric Series

Part No.	Dia. (mm)	Dec. Equiv. (In.)	Unit
¤34560-2	2	0.0787	2
34560-3	3	0.1181	2
34560-4	4	0.1575	2
34560-5	5	0.1969	2
34560-6	6	0.2362	2
¤34560-7	7	0.2756	2
34560-8	8	0.3150	2
¤34560-9	9	0.3543	2
34560-10	10	0.3937	2
¤34560-11	11	0.4331	2
34560-12	12	0.4724	2
¤34560-14	14	0.5512	1
34560-15	15	0.5906	1
34560-16	16	0.6299	1
¤34560-18	18	0.7087	1
34560-20	20	0.7874	1
34560-25	25	0.9843	1

Acme Threaded Rod and Hex Nuts

Canada Only

- Plain finish

Part No.	Description	Size	Length	Unit
✦CD557924	Acme Threaded Rod	1/2-10	36"	1
✦CD564071	Acme Threaded Rod	5/8-8	36"	1
✦CD559097	Acme Threaded Rod	3/4-6	36"	1
✦CD556925	Acme Threaded Rod	1-5	36"	1
✦CD557371	Acme Hex Nuts	1/2-10		50
✦CD559971	Acme Hex Nuts	5/8-8		25
✦CD558931	Acme Hex Nuts	3/4-6		20
✦CD556837	acme Hex Nuts	1-5		20

✦Canada only

Turnbuckles

Drop-Forged Turnbuckles



- C-1035 Steel
- Meets ASTM Specification F1145-92 Type 1, Grade 1

Body Only (CLASS 2*) Self-Colored

Part No.	Diameter & Take-up (In.)	OAL (In.)	Unit
57001	1/4 x 4	4 13/16	2
57002	5/16 x 4 1/2	5 5/16	2
57003	3/8 x 6	7 1/8	2
57004	1/2 x 6	7 1/2	2
57005	1/2 x 12	13 1/2	2
57006	5/8 x 6	7 7/8	2
57007	5/8 x 12	13 7/8	2
57008	3/4 x 6	8 1/4	2
57009	3/4 x 12	14 1/4	2



Eye & Eye (CLASS 4*) Hot Galvanized

Part No.	Diameter & Take-up (In.)	OAL (In.)	Unit
57010	1/4 x 4	8	2
57011	5/16 x 4 1/2	9	2
57012	3/8 x 6	11 1/2	2
57013	1/2 x 6	13	2
57014	1/2 x 12	19	2
57015	5/8 x 6	13 1/2	2
57016	5/8 x 12	20 1/2	2
57017	3/4 x 6	14 3/4	2
57018	3/4 x 12	21 3/4	2



Jaw & Jaw (CLASS 7*) Hot Galvanized

Part No.	Diameter & Take-up (In.)	OAL (In.)	Unit
57019	1/4 x 4	8 1/2	2
57020	5/16 x 4 1/2	9 1/4	2
57021	3/8 x 6	11 1/2	2
57022	1/2 x 6	13 1/2	2
57023	1/2 x 12	19 1/2	2
57024	5/8 x 6	15 3/4	2
57025	5/8 x 12	21 3/4	2
57026	3/4 x 6	16 1/2	2
57027	3/4 x 12	22 1/2	2



Jaw & Eye (CLASS 8*) Hot Galvanized

Part No.	Diameter & Take-up (In.)	OAL (In.)	Unit
57028	1/4 x 4	8 1/4	2
57029	5/16 x 4 1/2	9 1/8	2
57030	3/8 x 6	11 1/2	2
57031	1/2 x 6	13 1/4	2
57032	1/2 x 12	19 1/4	2
57033	5/8 x 6	14 5/8	2
57034	5/8 x 12	21 1/8	2
57035	3/4 x 6	15 5/8	2
57036	3/4 x 12	22	2



Hook & Eye (CLASS 6*) Hot Galvanized

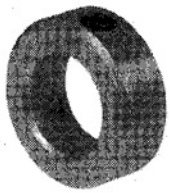
Part No.	Diameter & Take-up (In.)	OAL (In.)	Unit
57037	1/4 x 4	8 1/4	2
57038	5/16 x 4 1/2	9 1/4	2
57039	3/8 x 6	11 3/4	2
57040	1/2 x 6	13 5/8	2
57041	1/2 x 12	19 5/8	2
57042	5/8 x 6	14 1/8	2
57043	5/8 x 12	20 5/8	2
57044	3/4 x 6	15 3/4	2
57045	3/4 x 12	22 1/8	2

NOTE: Overall lengths (inches) taken in the closed position. To ascertain extended length, add amount of take-up to length in closed position.

Shaft Collars-Steel

Set Screw Shaft Collars

One-Piece Type



- Low carbon steel
- Zinc plated
- Supplied with socket cup point set screw
- Used to lock a variety of components securely to a shaft

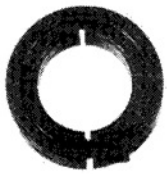
Part No.	Bore Size (In.)	O.D. (In.)	Unit
¤30890	1/8	3/8	5
30891	3/16		5
30892	1/4		5
30893	5/16	5/8	5
30894	3/8	3/4	5
30895	7/16	7/8	5
30896	1/2	1	3
30897	9/16	1	3
30898	5/8	1 1/8	3
¤30899	11/16	1 1/4	3
30900	3/4	1 1/4	3
30901	13/16	1 1/2	3
30902	7/8	1 1/2	3
¤30903	15/16	1 5/8	2
30904	1	1 5/8	2
¤30905	1 1/16	1 3/4	2
30906	1 1/8	1 3/4	2
30907	1 3/16	2	2
30908	1 1/4	2	2
¤30909	1 5/16	2 1/8	2
30910	1 3/8	2 1/8	2
¤30911	1 7/16	2 1/4	2
30912	1 1/2	2 1/4	2
¤30913	1 9/16	2 1/2	2
¤30914	1 5/8	2 1/2	2
¤30915	1 11/16	2 1/2	2
¤30916	1 3/4	2 3/4	2
¤30917	1 13/16	2 3/4	2
¤30918	1 7/8	2 3/4	2
¤30919	1 15/16	3	2
30920	2	3	2
¤30921	2 1/2	3 1/2	2

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Shaft Collars

One-Piece or Two-Piece Types



- Low carbon steel collar
- Black finish
- Alloy steel socket head cap screw
- Grips tighter than standard set screw collar
- Won't scar shaft

One Piece	Two Piece	Bore Size (In.)	Unit
30850	30870	¼	5
30851	30871	5/16	5
30852	30872	⅜	5
30853	30873	7/16	5
30854	30874	½	3
30855	30875	⅝	3
30856	30876	¾	3
30857	30877	⅞	3
*	KP1779	15/16	2
30858	30878	1	2
30859	30878-1	1⅛	2
*	C361417	1 3/16	5
30860	30879	1¼	2
30861	30880	1⅜	2
*	C361423	1 7/16	5
30862	30881	1½	2
*	KP1787	1⅝	2
*	30882	1¾	2
*	C361431	1 15/16	2
*	30883	2	2
*	30884	2¼	2
*	30885	2½	2

Shaft Collars-Stainless Steel

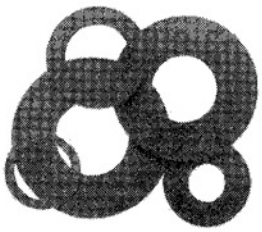
Shaft Collars – Stainless Steel One Piece Or Two Piece



One Piece Part No.	One Piece Unit	Two Piece Part No.	Two Piece Unit	Bore Size (In.)
C361304	2	KP2050	2	¼
KP86207	10	*		5/16
C361306	2	KP2051	2	⅜
KP86209	10	KP2052	2	7/16
C361308	2	KP2053	2	½
C361310	2	KP2054	2	⅝
C361312	2	KP2055	2	¾
C361314	1	KP2056	2	⅞
*		KP2057	2	15/16
C361316	1	KP2058	2	1
C361318	1	KP2059	1	1⅛
*		KP2060	1	1 3/16
KP86222	2	KP2061	1	1¼
*		KP2062	1	1⅜
*		KP2064	1	1½

Boston Gear Thrust Washers

Boston Gear Thrust Washers



These strong thrust washers are made of hardened steel, ground to precise tolerances, to take end thrusts that do not warrant the use of anti-friction ball bearings. Use them as spacers to take up end play in shafts.

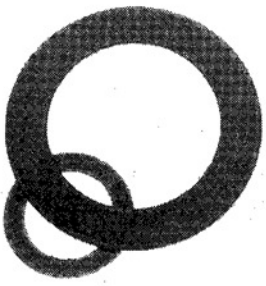
Part No.	Bore (In.)	O.D (In.)	Thick (In.)	Unit
C313100	3/16	9/32	1/16	2
C313102	3/16	⅜	1/16	2
C313104	3/16	⅜	3/32	2
C313106	¼	½	1/16	2
C313108	¼	½	3/32	2
C313110	5/16	⅝	1/16	2
C313112	5/16	⅝	⅛	2
C313114	⅜	⅝	1/16	2
C313116	⅜	⅝	⅛	2
C313118	7/16	⅞	1/16	2
C313120	7/16	⅞	5/32	2
C313122	½	¾	1/16	2
C313124	½	¾	⅛	2
C313126	½	1⅛	1/16	2
C313128	½	1⅛	5/32	2
C313130	½	1¼	3/16	2
C313132	9/16	1⅜	3/32	2
C313134	9/16	1⅜	3/16	2
C313136	5/8	25/32	1/16	2
C313138	5/8	25/32	⅛	2
C313140	5/8	1¼	3/32	2
C313142	5/8	1¼	3/16	2
C313144	5/8	1⅜	3/16	2
C313146	5/8	1½	3/32	2
C313148	5/8	1½	3/16	2
C313150	5/8	1¾	3/16	2
C313152	¾	1	3/32	2
C313154	¾	15/16	3/32	2
C313156	¾	15/16	3/16	2
C313158	¾	1⅝	⅛	2
C313160	¾	1⅝	3/16	2
C313162	¾	1¾	3/16	2
C313164	¾	2	3/16	2
C313166	⅞	1 3/16	3/32	2
C313168	⅞	2	⅛	2
C313170	⅞	2	3/16	2
C313172	⅞	2¼	3/16	2
C313174	1	1 3/16	3/16	2
C313176	1	2	⅛	2
C313178	1	2	3/16	2
C313180	1	2¼	9/64	2
C313182	1	2½	¼	2
C313184	1⅛	2½	¼	2
C313186	1⅛	2½	¼	2
C313188	1 3/16	2	3/16	2
C313190	1¼	2	9/64	2
C313192	1¼	2 7/16	9/64	1
C313194	1¼	2¾	9/64	1
C313196	1¼	3	¼	1
C313198	1 5/16	2¾	¼	1
C313200	1⅜	3	5/32	1
C313202	1⅜	3	¼	1
C313204	1½	3	5/32	1
C313206	1½	3	¼	1
C313208	1½	3¼	⅛	1
C313210	2	4	5/32	1
C313212	2	4	5/16	1

STANDARD TOLERANCE

DIMENSION	TOLERANCE (In.)
BORE	.010
O.D.	0.030

Machinery Bushings

Machinery Bushings



Our Machinery bushings are made of cold-rolled steel to resist friction and keep your equipment running smoothly! Precision finished with narrow rims, they are designed for shimming gears, sprockets, and bearings.

Part No.	Shaft Dia. (In.)	O.D. (In.)	Gauge	Unit
+CD552599	½	⅞	14	25
+CD552589	½	⅞	18	25
+CD552600	9/16	1	14	25
C8888012	⅝	1⅛	14	50
C8888013	⅝	1⅛	18	50
C8888014	¾	1¼	14	50
C8888015	¾	1¼	18	50
C8888016	⅞	1⅜	14	50
C8888017	⅞	1⅜	18	50
C8888018	1	1½	10	50
C8888020	1	1½	18	50
C8888021	1⅛	1¾	10	25
C8888022	1⅛	1¾	14	25

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Continued from previous page

Part No.	Shaft Dia. (In.)	O.D. (In.)	Gauge	Unit
C8888023	1⅛	1¾	18	25
C8888024	1¼	1⅞	10	25
C8888025	1¼	1⅞	14	25
C8888026	1¼	1⅞	18	25
C8888027	1⅜	2⅛	10	25
C8888028	1⅜	2⅛	14	25
C8888029	1⅜	2⅛	18	25
C8888030	1½	2¼	10	25
C8888031	1½	2¼	14	25
C8888032	1¾	2½	10	25
C8888033	1¾	2½	14	10
C8888035	1⅞	2⅞	14	10
C8888036	2	3	10	10
C8888037	2	3	14	10
C8888038	2⅛	3⅛	10	10

◆Canada only

Remember that you can always call our Customer Service Department when you need a sample.

And if you're not sure of exactly what type of fastener you need, rest assured that one call to our Customer Service Department can get you the answer you are looking for!

We're here to serve you so feel free to call us with any questions you may have.

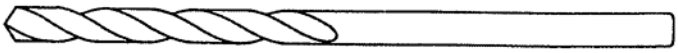
For All Your Fastener Needs!!

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HIGH SPEED JOBBER LENGTH DRILLS



Straight Shank - Black Finish
135° Split Point

Auveco Part No.	Unit Pkg.	Size	Dec. Equiv.	Flute Length	Overall Length
13039	5	3/32"	.0938	1-1/4"	2-1/4"
13040	5	7/64"	.1094	1-1/2"	2-5/8"
13041	5	1/8"	.1250	1-5/8"	2-3/4"
13095	5	30	.1285	1-5/8"	2-3/4"
13042	5	9/64"	.1406	1-3/4"	2-7/8"
13043	5	5/32"	.1562	2"	3-1/8"
13044	5	11/64"	.1719	2-1/8"	3-1/4"
13080	5	15	.1800	2-3/16"	3-3/8"
13045	5	3/16"	.1875	2-5/16"	3-1/2"
13077	5	12	.1890	2-5/16"	3-1/2"
13075	5	10	.1935	2-7/16"	3-5/8"
13072	5	7	.2010	2-7/16"	3-5/8"
13095	5	30	.1285	1-5/8"	2-3/4"
13046	5	13/64"	.2031	2-7/16"	3-5/8"
13047	5	7/32"	.2188	2-1/2"	3-3/4"
13048	5	15/64"	.2344	2-5/8"	3-7/8"
13049	5	1/4"	.2500	2-3/4"	4"
13050	5	17/64"	.2656	2-7/8"	4-1/8"
13051	5	9/32"	.2812	2-15/16"	4-1/4"
13052	5	19/64"	.2969	3-1/16"	4-3/8"
13053	5	5/16"	.3125	3-3/16"	4-1/2"
13054	5	21/64"	.3281	3-5/16"	4-5/8"
13055	5	11/32"	.3438	3-7/16"	4-3/4"
13056	5	23/64"	.3594	3-1/2"	4-7/8"
13057	5	3/8"	.3750	3-5/8"	5"
13058	5	25/64"	.3906	3-3/4"	5-1/8"
13059	5	13/32"	.4062	3-7/8"	5-1/4"
13060	5	27/64"	.4219	3-15/16"	5-3/8"
13061	5	7/16"	.4375	4-1/16"	5-1/2"
13062	5	29/64"	.4531	4-3/16"	5-5/8"
13063	5	15/32"	.4688	4-5/16"	5-3/4"
13064	5	31/64"	.4844	4-3/8"	5-7/8"
13065	3	1/2"	.5000	4-1/2"	6"



Masonry Drills
Chrome Finish - Carbide Tipped
M2 High Speed Steel - ASA Standard

Auveco Part No.	Unit Pkg.	Size	Shank Size	Overall Length
13106	3	3/16"	11/64"	3"
13108	3	1/4"	7/32"	6"

COBALT STEEL SPOT WELD DRILLS



Auveco Part No.	Unit Pkg.	Size	Flute Length	Overall Length
20479	3	8mm (5/16")	27mm (1-1/16")	58mm (2-1/4")
20480	3	10mm (3/8")	27mm (1-1/16")	58mm (2-1/4")

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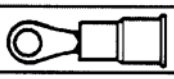
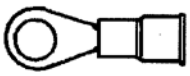
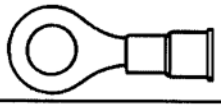
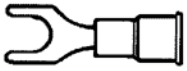
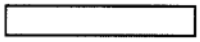
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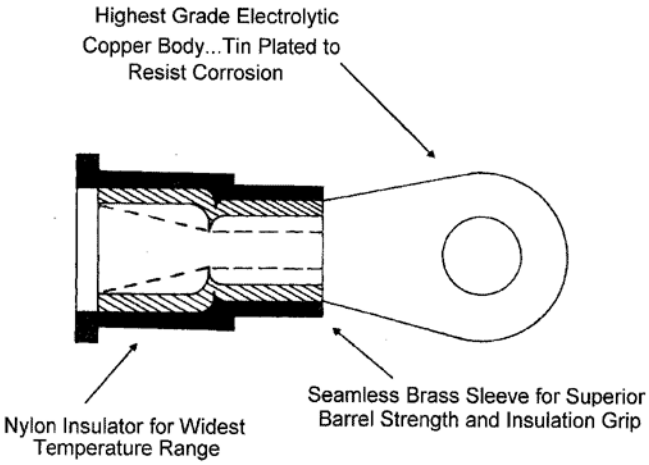
Solderless Terminals

Nylon Insulated - Our Finest

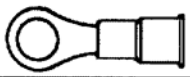
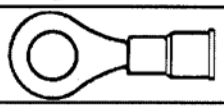
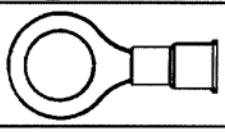
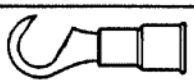
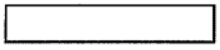
22-18 Gauge Wire Range (Red)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#4 - #6	**12149**	25
	#8 - #10	**12150**	25
	#12 - 1/4"	**17041**	50
	#8 - #10	**12163**	25
	#4 - #6	**12164**	25
	Butt Connector	**5791**	50
		16487	1000

Nylon Insulated with Insulation Grip



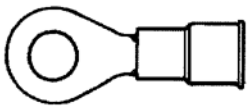
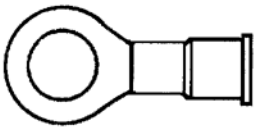
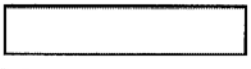
16-14 Gauge Wire Range (Blue)

Actual Size	Stud Size	Auveco No.	Unit Pkg.
	#4 - #6	**9052**	25
	#8 - #10	**9055**	25
	#12 - 1/4"	**9056**	25
	1/4" - 5/16"	**9057**	25
	5/16" - 3/8"	**9058**	25
	#4 - #6	**9059**	25
	#8 - #10	**9060**	25
	#8 - #10	**9064**	25
	Butt Connector	**5792**	50
		16488	1000
	1/4" Female Quick Connect	**12148**	25
	1/4" Male Quick Connect	**12147**	25

Auveco's Finest

* Superior Vibration Resistance with Insulation Grip
* Superior Barrel Strength
* Constructed to Meet the Highest Military and Industrial Standards

12-10 Gauge Wire Range (Yellow)

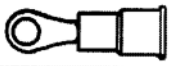
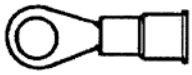
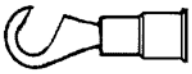
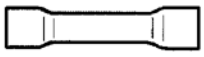
Actual Size	Stud Size	Auveco No.	Unit Pkg.
	#8 - #10	**12151**	25
	#12 - 1/4"	**12152**	25
	5/16" - 3/8"	**12153**	25
	#8 - #10	**12162**	25
	Butt Connector	**5793**	50
		16489	500

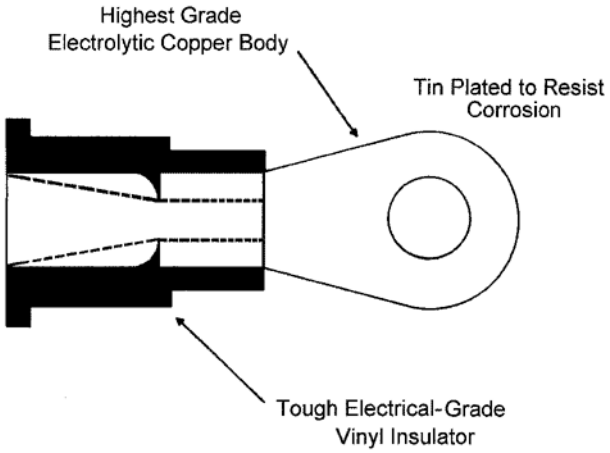
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Vinyl Insulated - Copper - Electro Tin Plated

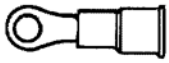
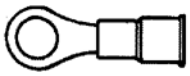
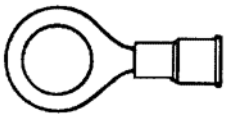
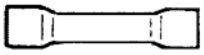
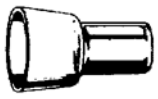
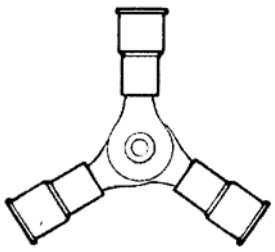
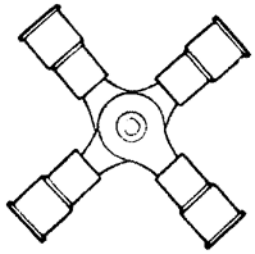
22-18 Gauge Wire Range (Red)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#4 - #6	**5021**	100
	#8 - #10	**5023**	100
	#12 - 1/4"	**17040**	50
	#4 - #6	**5033**	100
	#8 - #10	**5034**	100
	#4 - #6	**5038**	100
	Butt Connector	**5047**	100
		16484	1000
	Closed End Butt Connector 22-14 Ga.	**9065**	100



*Funnel Barrel for Easy Wire Insertion
*Friction Groove in Barrel Resists Wire Pullout
*Heat Treated for Maximum Strength

16-14 Gauge Wire Range (Blue)

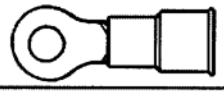
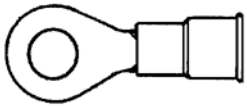
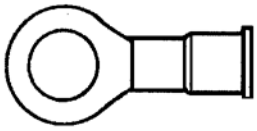
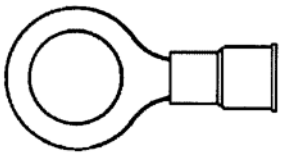
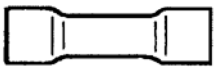
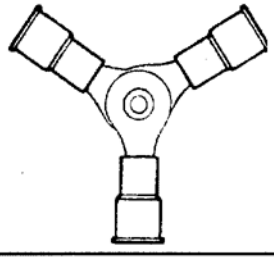
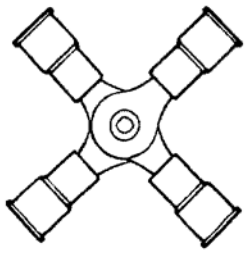
Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#4 - #6	**5024**	100
	#8 - #10	**5026**	100
	#12 - 1/4"	**5027**	100
	5/16" - 3/8"	**12144**	25
	#4 - #6	**5035**	100
	#8 - #10	**5036**	100
	#8 - #10	**5040**	100
	Butt Connector	**5048**	100
		16485	1000
	Closed End Butt Connector 16-10 Ga.	**5072**	100
	3-Way Connector	**5055**	25
	4-Way Connector	**5057**	25

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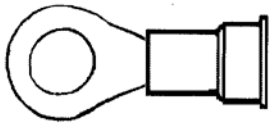
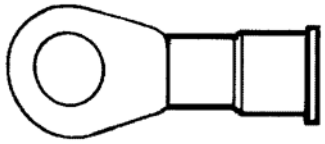
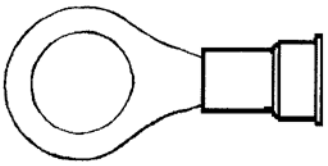
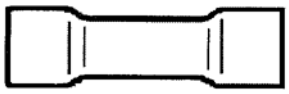
Solderless Terminals

Vinyl Insulated - Copper - Electro Tin Plated

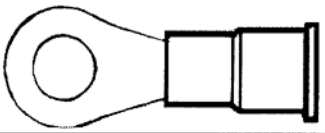
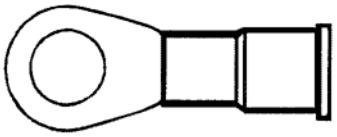
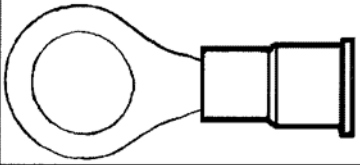
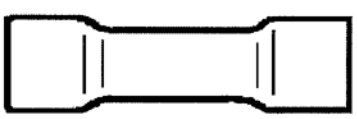
12-10 Gauge Wire Range (Yellow)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#8 - #10	**5028**	100
	#12 - 1/4"	**5029**	100
	1/4" - 5/16"	**5030**	100
	5/16" - 3/8"	**5031**	100
	7/16" - 1/2"	**5032**	100
	#8 - #10	**5037**	100
	#8 - #10	**5041**	100
	Butt Connector	**5049** **16486**	100 500
	3-Way Connector	**5056**	25
	4-Way Connector	**5058**	25

8 Gauge Wire Range (Red)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#12 - 1/4"	**17042**	25
	1/4" - 5/16"	**17043**	25
	5/16"-3/8"	**17044**	25
	7/16" - 1/2"	**17045**	15
	Butt Connector	**17037**	10

6 Gauge Wire Range (Blue)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#12 - 1/4"	**17046**	15
	1/4" - 5/16"	**17047**	15
	5/16" - 3/8"	**17048**	15
	7/16" - 1/2"	**17049**	10
	Butt Connector	**17038**	10

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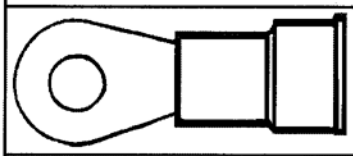
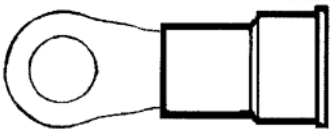
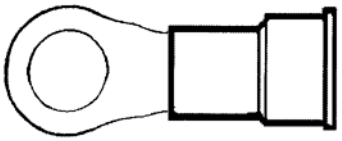
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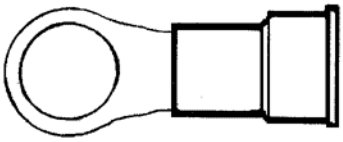
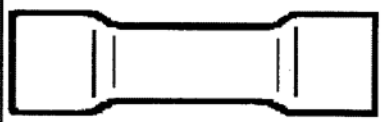
Solderless Terminals

Vinyl Insulated - Copper - Electro Tin Plated

4 Gauge Wire Range (Yellow)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#12 - 1/4"	**17050**	10
	1/4"-5/16"	**17051**	10
	5/16"-3/8"	**17052**	10

4 Gauge Wire Range (Yellow)

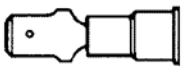
Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	7/16"-1/2"	**17053**	10
	Butt Connector	**17039**	10

Quick-Connect Terminals

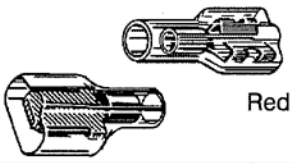
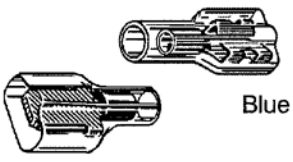
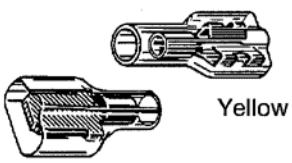
1/4" Female Terminals Vinyl Insulated

Actual Size	Wire Size	Auveco Part No.	Unit Pkg.
 Red	22-18 Ga.	**12155**	25
 Blue	16-14 Ga.	**5068**	100
 Yellow	12-10 Ga.	**12157**	25

1/4" Male Tabs - Vinyl Insulated

Actual Size	Wire Size	Auveco Part No.	Unit Pkg.
 Red	22-18 Ga.	**12154**	25
 Blue	16-14 Ga.	**5067**	100
 Yellow	12-10 Ga.	**12156**	25

Fully Insulated Nylon - Mating 1/4" Quick-Connects

 Red	22-18 Ga. Female	**11827**	50
	22-18 Ga. Male	**11828**	50
 Blue	16-14 Ga. Female	**11606**	50
	16-14 Ga. Male	**11605**	50
 Yellow	12-10 Ga. Female	**11829**	25
	12-10 Ga. Male	**11830**	25

.187 (3/16") Sizes - Vinyl Insulated

 Red	Male 22-18 Ga.	**17462**	25
 Red	Female 22-18 Ga.	**12159**	25
 Blue	Male 16-14 Ga.	**12165**	25
 Blue	Female 16-14 Ga.	**8781**	50

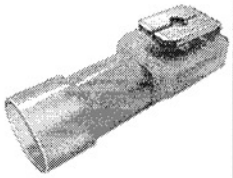
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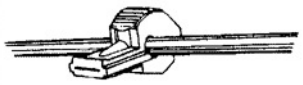
Solderless Terminals

1/4" Female Fully Insulated Nylon Piggyback Terminals

Actual Size	Wire Range	Auveco Part No.	Unit Pkg.
	22-18 Ga. 1/4" Tab Std. Barrel (Red)	**19298**	15
	16-14 Ga. 1/4" Tab Std. Barrel (Blue)	**19299**	15
	12-10 Ga. 1/4" Tab Std. Barrel (Yellow)	**19300**	15

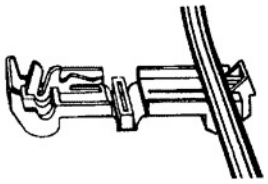
Actual Size	Wire Range	Auveco Part No.	Unit Pkg.
	16-14 Ga. 1/4" Tab Expanded Barrel For Two Wires (Blue)	**19302**	15

Fully Insulated Tap-Disconnect

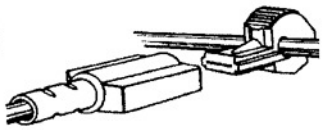
	Wire Range	Auveco Part No.	Unit Pkg.
 Mates with 11828, 11605 & 11830	22-18 Ga. (Red)	**12791**	10
	18-14 Ga. (Blue)	**12161** **14898** **14899**	10 100 500
	12 Ga. (Yellow)	**12792**	10



Fully insulated connector for tapping into a line without stripping the insulation. No special tools are required.

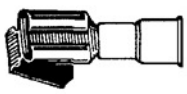


Place wire to be tapped in locating notch. Then close with pliers.



Complete connection with Auveco fully insulated male terminal:
11828 (22-18 ga.),
11605 (16-14 ga.) or
11830 (12 ga.)

Specialty Terminal - Vinyl Insulated

	1/4" Tab 16-14 Ga.	**12158**	25

Fuse Block Accessory Clip

	For Add-on Electrical Equipment	**11405**	50

Blade Type Fuse Tap

 Refer To Page 176.	For tapping "hot side" of fuse block	**14474**	25

Mini Fuse Blade Type Fuse Tap

 Refer To Page 176.	For tapping "hot side" of mini fuse type fuse block	**17686**	50

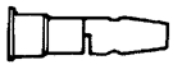
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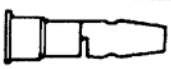
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Snap Plugs & Connectors

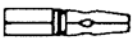
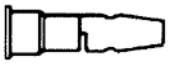
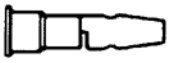
Snap Plugs - 22-18 Ga. Universal - .157" Dia.

Actual Size	Description	Auveco Part No.	Unit Pkg.
 Red	Vinyl Insulated	**11604**	50
 Red	Insulated Crimp-on Female Mates with 11604	**10720**	10

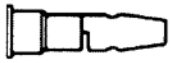
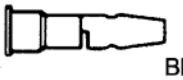
Snap Plugs - 22-18 Ga. Ford - .176" Dia.

Actual Size	Description	Auveco Part No.	Unit Pkg.
 Red	Vinyl Insulated	**11603**	**50**
 Red	Insulated Crimp-On Female, Mates With 11603	**11601**	**25**

Snap Plugs 16-14 Ga. Universal (.157")

	Use w/5073 & 10719 Connectors	Non Insulated	**5060**	100
 Blue		Vinyl Insulated	**5063**	100
 Blue		Nylon Insulated	**12146**	25

Snap Plugs 16-14 Ga. Ford (American & Lucas) (.176")

	Use w/11600 & 11602 Connector	Non Insulated	**5059**	100
 Blue		Vinyl Insulated	**5062**	100
 Blue		Nylon Insulated	**12145**	25

Universal Snap Plug Connectors (.157")

 Clear	Vinyl Insulated 2 Way Use w/Universal Plugs	**5073**	50

Ford Snap Plug Connectors (.176")

 Green	Vinyl Insulated 2 Way Use w/Ford Snap Plugs	**11600**	50

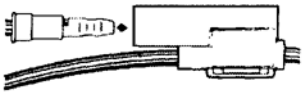
Fully Insulated Crimp-On Female (.157")

 Blue	Nylon 16-14 Ga.	**10719**	10
		17494	25
	Mates with 5063 & 12146		

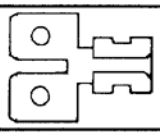
Fully Insulated Crimp-on Female (.176")

 Blue	Nylon 16-14 Ga.	**11602**	25
		17493	50
	Mates with 5062 & 12145		

Snap Plug Tap-Disconnect

 Use Universal Snap Plugs (above)	18-14 Ga.	**10319**	10

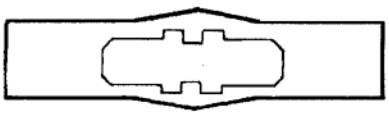
Dual Male-Female Adaptor

	Converts .250" x .032" Male Tab to 2 Male Tabs	**8009**	100

Dual Male Female Adapter

	Converts .250" x .032" Male Tab to 2 Male Tabs	**8788**	25

1/4" Tab Inline Connector

	**5905**	50

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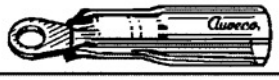
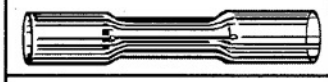
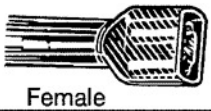
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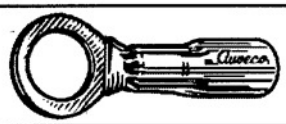
Krimp & Seal Terminals

Special polyolefin tubing when heated shrinks with a 3-1 ratio to completely seal entire connection, making penetration by any foreign material impossible.

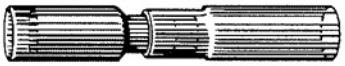
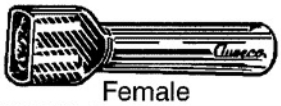
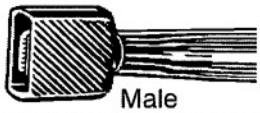
22-18 Gauge Wire Range (Red)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#6	**13656**	10
	#10	**13657**	10
	Butt Connector	**13659**	10
		19258	25
 Female	.250"	**13660**	10
 Male	.250"	**13661**	10
	#10	**13658**	10

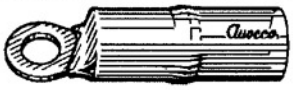
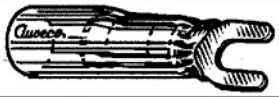
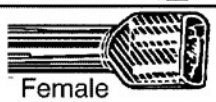
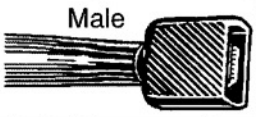
16-14 Gauge Wire Range (Blue)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#6	**13662**	10
	#10	**13663**	10
	1/4"	**13664**	10
	5/16"	**13665**	10
	3/8"	**13666**	10
	#10	**13667**	10

16-14 Gauge Wire Range (Blue) (Continued)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	Butt Conn.	**13669**	10
		19259	25
	.157"	**13681**	10
	.157"	**13682**	10
	.250"	**13670**	10
	.250"	**13671**	10
 Female	.250"	**13672**	10
		19260	25
 Male	.250"	**13673**	10
		19261	25

12-10 Gauge Wire Range (Yellow)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#10	**13674**	10
	1/4"	**13675**	10
	3/8"	**13676**	10
	Butt Connector	**13678**	10
		19262	25
	#10	**13677**	10
 Female	.250"	**13679**	10
Male 	.250"	**13680**	10

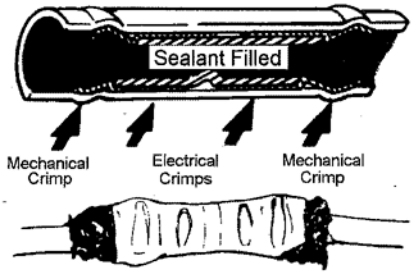
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Moisture Resistant Nylon Insulated Butt Connectors

Protects electrical connections from corrosive environments - road chemicals, salt spray, etc. Insert wire and crimp twice (electrical and mechanical) at each end - no need for heat or chemicals.

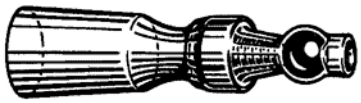


Auveco Part No.	Wire Range	Unit Pkg.
13683	22-18 Ga.	10
13684	16-14 Ga.	10
13685	12-10 Ga.	10

Heat-Shrinkable, Solder-Type Closed-End Connectors And Terminals

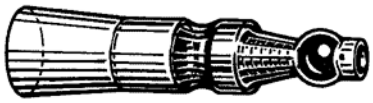
These terminators consist of a heat-shrinkable thermoplastic sleeve containing a spiral wound copper insert that is fitted with a prefluxed solder band. The unique combination of wire sizing and controlled soldering technology provides dependable electrical termination of as many as 10 wires of different sizes in a single connector.

Easy installation: Insert stripped wires into the terminator, then twist slightly. Twisting causes the copper insert to tightly grip, compress and hold the wires together. Apply heat. The tubing shrinks and the solder melts and flows through the copper insert into the center of the termination area, leaving the wires soldered together. The result is a reliable, insulated termination.



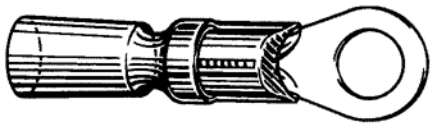
Insulated Closed-End Connectors

Auveco Part No.	Wire Range	Minimum Combination	Maximum Combination	Color Code	Unit Pkg.
18712	22-14 Ga.	2 22 Ga.	1 14 Ga. & 1 22 Ga.	Green	10
18713	18-14 Ga.	4 20 Ga.	1 14 Ga. & 2 18 Ga.	Red	10
18715	16-8 Ga.	1 10 Ga. & 1 12 Ga.	1 8 Ga. & 1 12 Ga.	Yellow	10



Insulated & Sealed Closed-End Connectors

Auveco Part No.	Wire Range	Minimum Combination	Maximum Combination	Color Code	Unit Pkg.
18716	22-14 Ga.	3 22 Ga.	1 14 Ga., & 1 22 Ga.	Green	10



Insulated Ring Tongue Terminals

Auveco Part No.	Wire Range	Stud Size	Minimum Combination	Maximum Combination	Unit Pkg.
18720	20-14 Ga.	#8	3 20 Ga.	1 14 Ga. & 1 18 Ga.	10
18721	20-14 Ga.	1/4"	3 20 Ga.	1 14 Ga. & 1 18 Ga.	10
18722	18-10 Ga.	1/4"	1 12 Ga.	3 16 Ga. & 3 18 Ga.	10
18723	18-10 Ga.	5/16"	1 12 Ga.	3 16 Ga. & 3 18 Ga.	10
18724	16-8 Ga.	1/4"	1 14 Ga. & 4 16 Ga.	1 8 Ga. & 2 16 Ga.	10
18725	16-8 Ga.	5/16"	1 14 Ga. & 4 16 Ga.	1 8 Ga. & 2 16 Ga.	10

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Solderless Terminals

Non-Insulated

22-18 Gauge Wire Range

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#4-#6	**5000**	100
	#8-#10	**5002**	100
	Butt Connector	**5044**	100

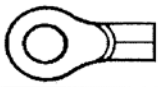
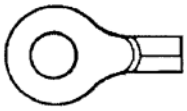
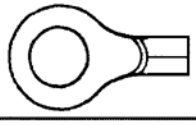
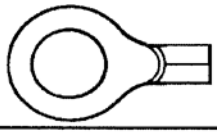
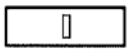
16-14 Gauge Wire Range

	#4-#6	**5003**	100
	#8-#10	**5005**	100
	#12-1/4"	**5006**	100
	#4-#6	**5014**	100
	#8-#10	**5015**	100
 Flag Type	#8-#10	**5043**	100
	Butt Connector	**5045**	100

16-14 Gauge Wire Range - High Temperature

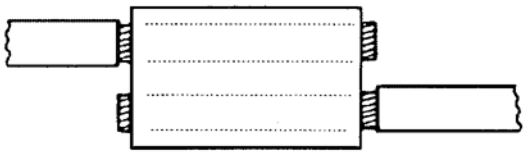
	#8-#10	**17491**	50
	#12-1/4"	**17492**	50
	.187" Female	**10724**	25
	.187" Male	**10721**	25
	1/4" Female	**5066**	100
	1/4" Male	**17490**	50

12-10 Gauge Wire Range

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	#8-#10	**5007**	100
	#12-1/4"	**5008**	100
	5/16"	**5009**	100
	3/8"	**5010**	100
	Butt Connector	**5046**	100

Parallel Connectors (Fusible Link Connectors)

Actual Size	Wire Range	Auveco No.	Unit Pkg.
 Non-Insulated	16-14 Ga.	**12630**	100
 Non-Insulated	12-10 Ga.	**12631**	50



Parallel Connectors
Proper Wire Insertion

Splice Clips

Actual Size	Wire Range	Auveco Part No.	Unit Pkg.
	Max. of 3 #16 Ga.	**18952**	50
	Max of 3 #12 Ga.	**18953**	50

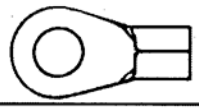
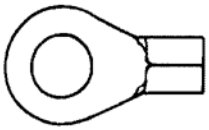
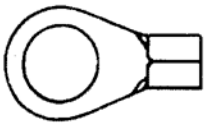
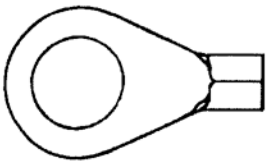
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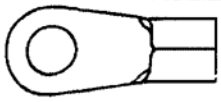
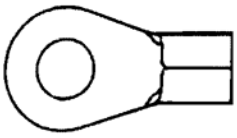
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Non-Insulated

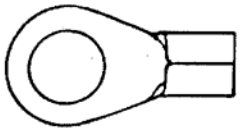
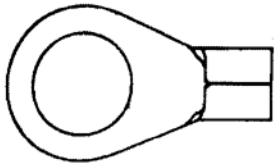
8 Gauge Wire Range

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	1/4"	**15158**	25
	5/16"	**15159**	25
	3/8"	**15160**	25
	1/2"	**15161**	25

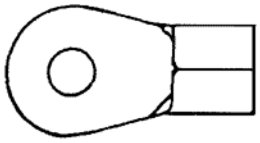
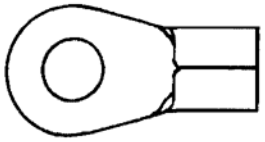
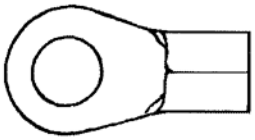
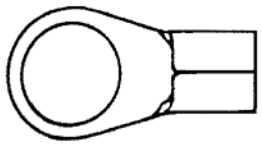
6 Gauge Wire Range

	1/4"	**15162**	25
	5/16"	**15163**	25

6 Gauge Wire Range (Continued)

Actual Size	Stud Size	Auveco Part No.	Unit Pkg.
	3/8"	**15164**	25
	1/2"	**15165**	25

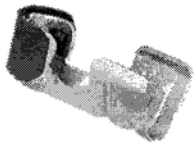
4 Gauge Wire Range

	1/4"	**15166**	10
	5/16"	**15167**	10
	3/8"	**15168**	10
	1/2"	**15169**	10

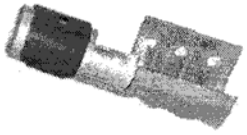
Spark Plug Wire Terminals



Type 1



Type 2



Type 3

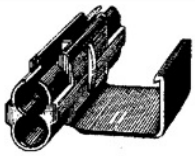
Auveco Part No.	Type	Description	Unit Pkg.
5069	1	7mm Coil and Distributor Cap Terminal	100
5070	2	7mm 90° Spark Plug Terminal	100
5071	3	7mm Straight Spark Plug Terminal	100

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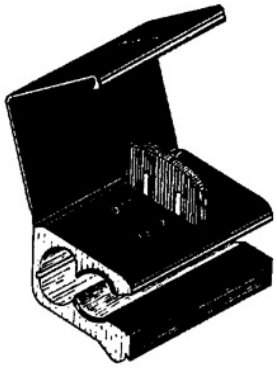
Solderless Terminals



Make quick, reliable pre-insulated tap splices, in-line splices, pass-through connections and pigtail connections without stripping, twisting, soldering or using special tools.

Easy to use - Open the connector making sure the piercing barb is clear of the wire channels. Insert unstripped wires in the proper channels. Use pliers to squeeze down the piercing barb until the top is flush with the connector body. Close the hinged cover so it locks securely.

Auveco Part No.	Wire Size	Color	Unit Pkg.
17036	22-18 Ga.	Red	25
9481	18-14 Ga.	Blue	25
14896	18-14 Ga.	Blue	100
14897	18-14 Ga.	Blue	500

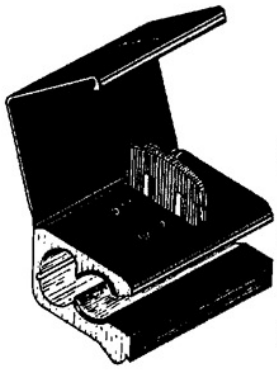


10385

Tan

Heavy duty self-stripping connector designed for 14, 16, 18 gauge wire connected on to 10 or 12 gauge automotive wire. Ideal for over the road equipment where tap, in-line, and pigtail splices are required.

UNIT PACKAGE: 10

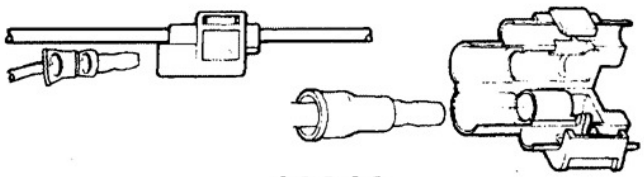


10386

Yellow

Designed exclusively for 10 or 12 gauge splicing on heavy duty vehicle wiring. Tap, in-line, and pigtail splices made quick and easy with this self-stripping connector.

UNIT PACKAGE: 10

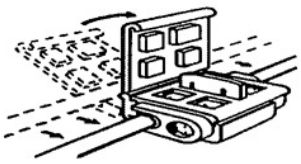


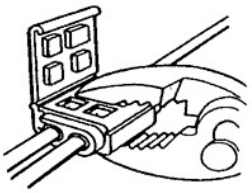
10319

Bullet receptacle connector for use with 18-14 gauge wire. Mates with Auveco snap plugs 5063 and 12146. Place wire to be tapped into connector channel, snap body together and lock into place with pliers.

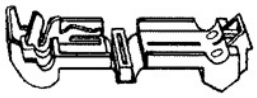
UNIT PACKAGE: 10

Tap connector with patented application system forces protective gel around the wire and element, providing a moisture-resistant barrier to destructive substances such as salt water and other corrosive environments. Withstands continuous operating temperatures of -40°C to 75°C (-40°F to 167°F). U.L. listed.

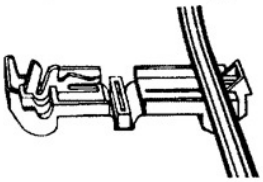




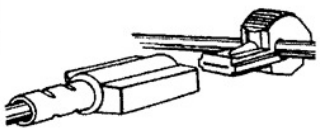
Auveco Part No.	Wire Size	Color	Unit Pkg.
17360	18-14 Ga.	Blue	50



Fully insulated connector for tapping into a line without stripping the insulation. No special tools are required.

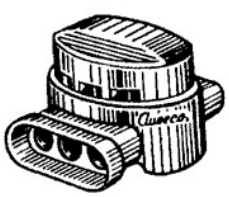


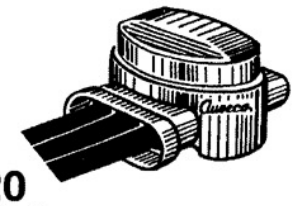
Place wire to be tapped in locating notch. Then close with pliers.



Complete connection with Auveco fully insulated male terminal:
11828 (22-18 ga.),
11605 (16-14 ga.) or
11830 (12 ga.)

Auveco Part No.	Wire Size	Color	Unit Pkg.
12791	22-18 Ga.	Red	10
12161	18-14 Ga.	Blue	10
14898	18-14 Ga.	Blue	100
14899	18-14 Ga.	Blue	500
12792	12 Ga.	Yellow	10





14920

(with Sealant)

Self-stripping connector for making 2 or 3 wire pigtail connections with a wire range of 22-14 gauge. Simply insert 2 or 3 unstripped wires completely into the connector. Hold a crimping tool perpendicular to the wires and make the connection by driving the cap down. UL & CSA listed for use to 600V maximum.

UNIT PACKAGE: 10

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Terminal Extractor Picks



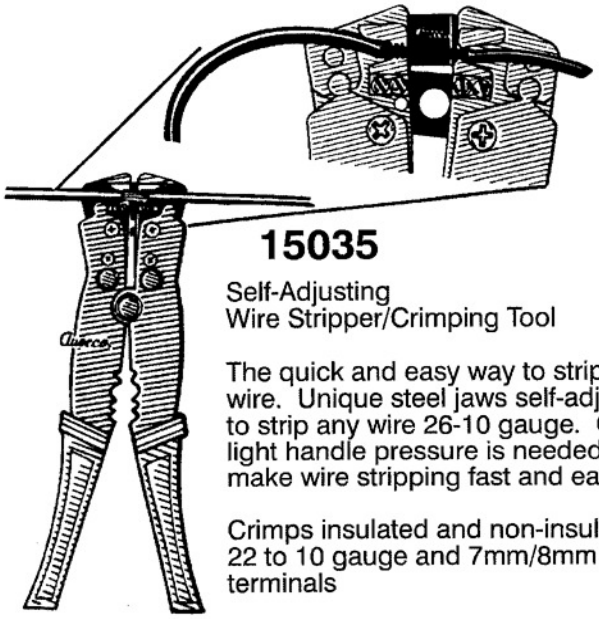
Used to release most GM, Ford and Chrysler OEM terminals from their insulating shells.
Not suitable for round, pin-type terminals.

14884
(12012000)
Narrow Blade (.050")
UNIT PACKAGE: 1

14885
(8913369)
Wide Blade (.090")
UNIT PACKAGE: 1

20583
(12094429)
Micro Terminal Extractor Pick
.035" Wide Blade Used to release 150 Metri-Pack, 280 Metri-Pack, 280 Tangless, 280 Bus Bar, 630 Pull to Seat, GT 150, GT 280, Wedge Base Light Socket terminals and indexing Candelabra Bayonet Double Contact Light Socket terminals.

UNIT PACKAGE: 1



15035

Self-Adjusting
Wire Stripper/Crimping Tool

The quick and easy way to strip wire. Unique steel jaws self-adjust to strip any wire 26-10 gauge. Only light handle pressure is needed to make wire stripping fast and easy.

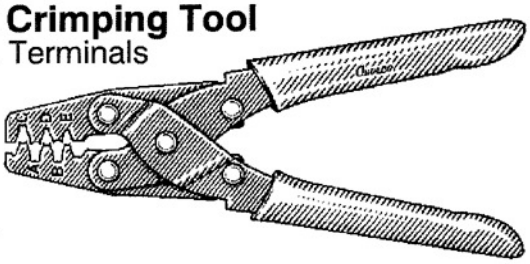
Crimps insulated and non-insulated 22 to 10 gauge and 7mm/8mm terminals

Also features precision machined blade for cutting wire sharp and smooth. Overall Length: 8-1/4"

UNIT PACKAGE: 1

Open Barrel Terminal Crimping Tool

For O.E.M. Terminals



16004

Duplicates factory crimps on open barrel terminals used in automotive, computer and control applications. Features five machined and hardened crimp stations for 14 to 24 gauge wire terminations. Parallel jaws eliminate faulty crimps.
Overall Length: 8-1/2"

UNIT PACKAGE: 1

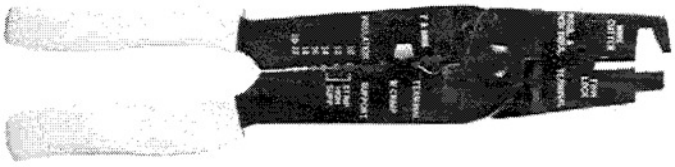
Insulation Crimp

For Wire Range	Use Crimp Station
14-18 Ga.	A
20-24 Ga.	B

Stripped Wire Crimp

For Wire Range	Use Crimp Station
14-16 Ga.	C
18-20 Ga.	D
22-24 Ga.	E

7711



Cuts and strips 22-8 gauge wire. Crimps insulated and non-insulated solderless terminals in sizes from 22-10 gauge.
Overall Length: 9"

UNIT PACKAGE: 1

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Wire Connectors



Push Type Wire Connectors

New type connectors that let you push wires into contact for a positive copper-to-copper connection without twisting or taping.
Test holes in the front and back of the connectors accept round or flat probes of test equipment to facilitate troubleshooting. UL approved.

Auveco Part No.	No. of Wires	Gauge	Rated Voltage	Color	Unit Pkg.
15845	3	22-16	300	Gray	25
15849	4	18-12	600	Blue	25

Wire Nut® Connectors



10378 UNIT PACKAGE: 25
15204 UNIT PACKAGE: 100
Gray

Joins 18 & 16 Ga. Wires
Minimum of 2 #18 Ga. Wires
Maximum of 2 #16 Ga. Wires

10379 UNIT PACKAGE: 25
15205 UNIT PACKAGE: 100
Blue

Joins 18-14 Ga. Wires
Minimum of 2 #18 Ga. Wires
Maximum of 3 #16 Ga. Wires

10380 UNIT PACKAGE: 25
15206 UNIT PACKAGE: 100
Orange

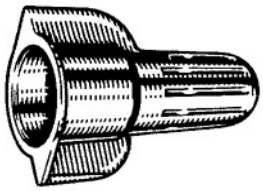
Joins 18-14 Ga. Wires
Minimum of 2 #18 Ga. Wires
Max. of 3 #16 Ga & 1 #18 Ga. Wires

10381 UNIT PACKAGE: 25
15207 UNIT PACKAGE: 100
Yellow

Joins 18-12 Ga. Wires
Min. of 1 #14 Ga. & 1 #18 Ga. Wires
Max. of 2 #14 Ga. & 3 #16 Ga. Wires

10382 UNIT PACKAGE: 25
15208 UNIT PACKAGE: 100
Red

Joins 18-10 Ga. Wires
Min. of 1 #12 Ga. & 2 #18 Ga. Wires
Max. of 2 #10 Ga. & 1 #12 Ga. Wires



Wing Wire Nut® Connectors
UL Approved

10384 UNIT PACKAGE: 25
15209 UNIT PACKAGE: 50
Blue

Joins 14-6 Ga. Wires
Minimum of 1 #10 Ga. &
1 #12 Ga. Wires
Max. of 1 #6 Ga. & 2 #8 Ga.

15705
Yellow
Joins 22-12 Ga. Wires
Minimum of 2 #18 Ga. Wires
Maximum of 2 #12 Ga. Wires

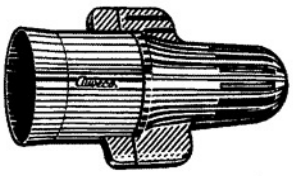
UNIT PACKAGE: 50

15706
Red

Joins 20-8 Ga. Wires
Min. of 2 #16 Ga. Wires
Max. of 4 #12 Ga. Wires

UNIT PACKAGE: 50

Wing Wire Connectors
UL Approved



Combines both the wide range and torque of wing-style connectors with a new flexible skirt that provides over-strip protection without taking additional space in the electrical box.

18312
Orange & Blue

Joins from two 22 ga.
to two 12 ga. wires

UNIT PACKAGE: 25

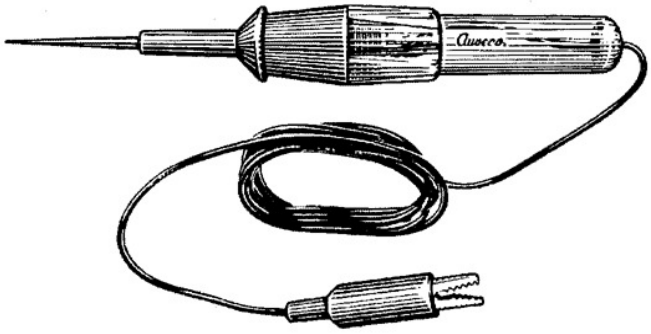
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Circuit Tester & Wire Loom

Circuit Tester

For Troubleshooting DC Primary Circuits On 6 & 12 Volt Vehicles



16420

UNIT PACKAGE: 1

Use to Check:

- Lighting Systems
- Wipers
- Horn
- Electric Clock,
- Windows, Locks
- Fuses
- Relays

Features:

- 4 Feet of Wire
- Mechanical Strain Relief
- Impact & Chemical Resistant Housing
- 8" Long Probe/Housing
- Super Sharp Probe, Tempered To Last
- 2" Long Alligator Clip

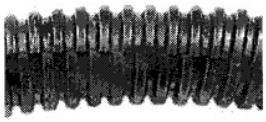
Wire Loom

(Split Flexible Tubing)
Can withstand Maximum Temperature of 345°F



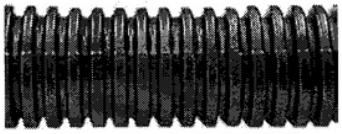
I.D. 1/4" - O.D. 3/8"
Nylon 6 - Black

14197 10' Length
14201 50' Length (Bulk)



I.D. 3/8" - O.D. 9/16"
Nylon 6 - Black

14198 10' Length
14202 50' Length (Bulk)



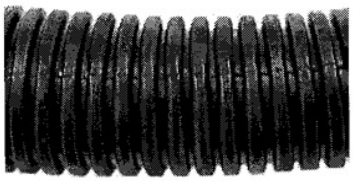
I.D. 1/2" - O.D. 11/16"
Nylon 6 - Black

14199 10' Length
14203 50' Length (Bulk)



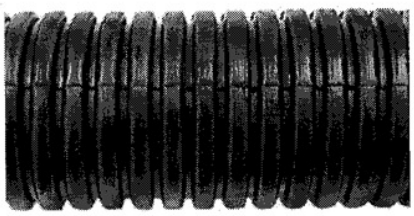
I.D. 5/8" - O.D. 13/16"
Nylon 6 - Black

20536 50' Length



I.D. 3/4" - O.D. 15/16"
Nylon 6 - Black

14200 10' Length
14204 50' Length (Bulk)



I.D. 1" - O.D. 1-1/8"
Nylon 6- Black

18194 25' Length

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Fusible Link Wire

SPOOLED FUSIBLE LINK WIRE

The lower the gauge number, the thicker the wire (i.e. 10 ga. is thicker than 16 ga.)



A fusible link is a special section of low tension cable installed by an OEM and designed to open a circuit when subjected to extreme current overload. Its purpose is to minimize wiring system damage when such an overload accidentally occurs in those circuits protected by the fusible link. A short circuit causes the fusible link to act as an element in a "slow-blow" fuse. A fusible link is not intended to be used in place of a fuse but only where a fuse cannot be economically employed. Our fusible line wire meets the requirements of SE J-156 and the insulation has the characteristics as listed for EAE, SE J-1128 Type SXL. The vehicle manufacturer should be consulted about questions on fusible link length and size. General practice has been for a fusible link to be 4 gauges smaller than the circuit wire. Example: if the circuit wire is 12 gauge, use a 16 gauge fusible link. Final determination should be based on O.E.M. application.
Note: Extreme care should be taken to always replace a fusible link with the same gauge and length as installed by the manufacturer.

Auveco Part No.	Gauge	Color*	Length	Replaces	Unit Pkg.
18773	20	Gray or Rust	25 Ft.	GM: 6292997	1 Spool
15370	18	Blue or Rust	25 Ft.	GM: 6293702	1 Spool
15371	16	Black or Rust	25 Ft.	GM: 6292996	1 Spool
15372	14	Gray or Rust	25 Ft.	GM: 6292995	1 Spool
16935	12	Blue or Rust	25 Ft.	GM: 6293923	1 Spool
18193	10	Rust	25 Ft.	GM: 12077140	1 Spool
20484	8	Black or Rust	25 Ft.		1 Spool

*Color may vary at manufacturer's option.

Universal Fusible Links

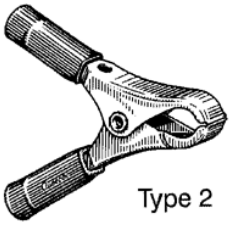
Fusible Link 18AWG

Auveco Part No.	Gauge	Length	Replaces	Unit Pkg.
12627	18	9"	Chry: 3843392 & other 18 Ga. links	5
12628	16	9"	GM: 6292996, 8903489 Ford D3AZ-14526-E & other 16 Ga. links	5
12629	14	9"	GM: 6292995, 8903488 Ford D3AZ-14526D & other 14 Ga. links	5
17465	12	9"	GM: 6293923	5
17464	10	9"	GM: 12077140	5

Test Clips



Type 1



Type 2

Auveco Part No.	Type	Description	Unit Pkg.
20478	1	10 Amp, Alligator Clip, Nickel Plated, 2" Long	5
16969	2	10 Amp, Red Insulation, 2-1/4" Long	5
16970	2	10 Amp, Black Insulation, 2-1/4" Long	5
16971	2	1 Each of 16969 & 16970	1 Pair
16972	2	30 Amp, Red Insulation, 3" Long	5
16973	2	30 Amp, Black Insulation, 3" Long	5
16974	2	1 Each of 16972 & 16973	1 Pair
16975	2	50 Amp, Red Insulation, 3" Long	5
16976	2	50 Amp, Black Insulation, 3" Long	5
16977	2	1 Each of 16975 & 16976	1 Pair

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Battery Cable





Auveco Part No.	Gauge	Stranding	O.D.	Unit Pkg.
11392	4	49 x 21	.375	25' Roll
13850	1/0	133 x 21	.530	25' Roll
13851	2/0	133 x 20	.590	25' Roll

Bare Copper Standard Conductor, covered with tough black Polyvinyl Chloride insulation. The thick jacket is easy to strip, resistant to moisture, weather, oil and acids.



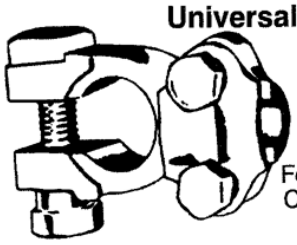
Solderless Battery Cable Terminals

Tin Plated Copper

Auveco Part No.	Cable Size	Post Size	Unit Pkg.
11360	No. 6 AWG	Universal	2
11361	No. 4 AWG	Universal	2
11362	No. 1 AWG	Positive	2
11363	No. 1 AWG	Negative	2
11364	No. 1/0 AWG	Positive	2
11365	No. 1/0 AWG	Negative	2
11366	No. 2/0 AWG	Positive	2
11367	No. 2/0 AWG	Negative	2
15858	No. 3/0 AWG	Positive	2
15859	No. 3/0 AWG	Negative	2

Note: Use w/ Auveco Tool No. 7996 or 7997

Universal Battery Terminal



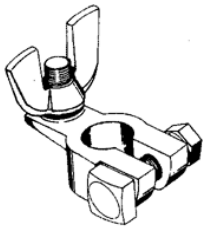
9948

For Positive & Negative Posts
Cable Range 8 thru 2/0 AWG

UNIT PACKAGE: 2

Marine Battery Terminals

Lead Plated Brass Terminal
Nickel Plated Grade 2 Steel Wing Nut
Zinc Plated Grade 2 Steel Bolt & Nut



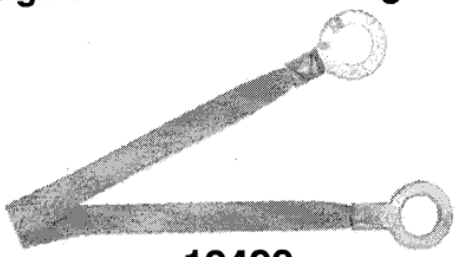
8772
For Positive Posts
3/8"-16 Stud

UNIT PACKAGE: 5

8773
For Negative Posts
5/16"-18 Stud

UNIT PACKAGE: 5

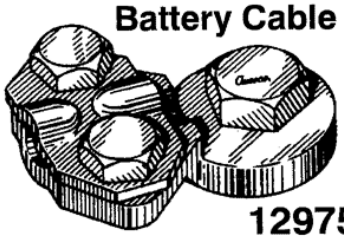
Engine Ground & Bonding Strap



19499

Replacement for body to engine block straps. Solves light dimming problems by grounding charging system. Also reduces radio noise. Copper braided wire with tin-plated brass ring terminals. 8" long. 10 Gauge. 5/16" - 3/8" stud size ring terminal.

Universal Side Mount Battery Cable Terminal

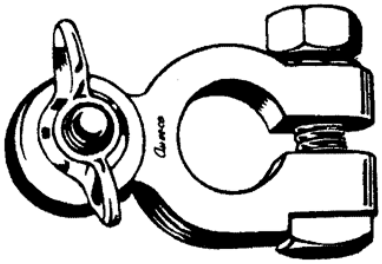


12975

Fits all small diameter cables - both positive and negative.

UNIT PACKAGE: 2

All Lead Terminal



10808

Zinc Plated Steel Bolt & Nuts
5/16"-18 Stud

UNIT PACKAGE: 2

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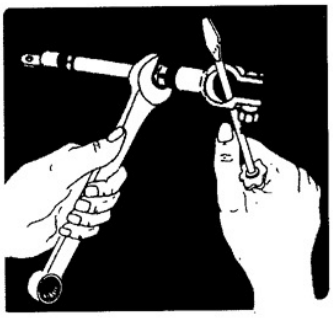
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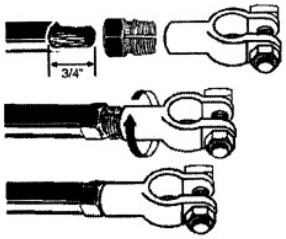
Battery Cable & Terminals 205

COMPRESSION BATTERY CABLE TERMINALS

All clamps and lugs are made of cast copper • All clamps, lugs and fasteners are tin plated

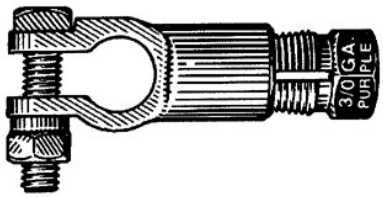
Assemble with common hand tools.





Three Easy Steps

1. Strip 3/4" of insulation from the end of the cable. Insert bared wire into the compression nut.
2. Thread terminal on compression nut.
3. Grip compression nut with wrench and turn the terminal until the compression nut seats. With larger gauges you may want to hold the terminal in a vise.



Straight Clamp

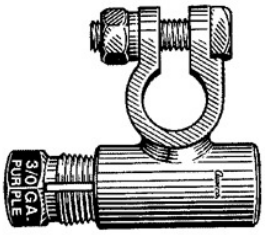
Auveco Part No.	Cable Gauge	Desc.	Color	Unit Pkg.
15602	4	Neg.	Gray	2
15603	4	Pos.	Gray	2
15604	1&2	Neg.	Green	2
15605	1&2	Pos.	Green	2
15606	1/0	Neg.	Black	2
15607	1/0	Pos.	Black	2
15608	2/0	Neg.	Orange	2
15609	2/0	Pos.	Orange	2
15610	3/0	Neg.	Purple	2
15611	3/0	Pos.	Purple	2





Heavy Wall Copper Lug

Auveco Part No.	Cable Gauge	Hole Size	Color	Unit Pkg.
15618	4	3/8"	Gray	2
15619	1&2	3/8"	Green	2
15620	1/0	3/8"	Black	2
15621	1/0	1/2"	Black	2
15622	2/0	3/8"	Orange	2
15623	2/0	1/2"	Orange	2
15624	3/0	3/8"	Purple	2
15625	3/0	1/2"	Purple	2



Flag Clamp

Auveco Part No.	Cable Gauge	Desc.	Color	Unit Pkg.
15612	1/0	Neg.	Black	2
15613	1/0	Pos.	Black	2
15615	2/0	Pos.	Orange	2



Stud/Side Terminal

Auveco Part No.	Cable Gauge	Color	Unit Pkg.
15626	4	Gray	2
15628	1/0	Black	2
15630	3/0	Purple	2



Compression Nut

Auveco Part No.	Cable Gauge	Color	Unit Pkg.
15632	2/0	Orange	5

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Top Stud Battery Terminals (Crimp Type Battery Rings)

100% Pure Copper w/Tin Plating • Fully Annealed
A single, double or 3-way connection can be made by stacking parts.

UNIT PACKAGE: 5

Auveco Part No.	Cable Size	Length	Stud Size
12767	4 Ga.	1-1/2"	3/8"
12768	2 Ga.	1-3/4"	3/8"
12769	1 Ga.	1-3/4"	3/8"
12770	1/0 Ga.	2"	3/8"
14464	2/0 Ga.	2"	3/8"
14465	3/0 Ga.	2"	3/8"
14466	4/0 Ga. .559 I.D.	2-1/4"	3/8"
14467 ■	4/0 Ga. .625 I.D.	2-1/2"	3/8"

■For Rope Stranded 4/0 Cable (most common construction)



Copper Battery Cable Lugs

Auveco Part No.	Cable Size	Stud Size	Unit Pkg.
5794	4 Ga.	3/8"	25
11463	4 Ga.	5/16"	25
11464	2 Ga.	3/8"	10
11465	1 Ga	3/8"	10
5795	1 Ga.	3/8"	25
5796	1/0 Ga.	3/8"	25
8771	1/0 Ga.	1/2"	10
11466	2/0 Ga.	3/8"	10
11467	2/0 Ga.	1/2"	10
11468	3/0 Ga.	1/2"	10

Use Auveco No. 7996 or No. 7997 Crimping Tool



Butt Connector (Double Flared)

Pure Copper with Tin Plating
Applications: Field or shop splicing of battery cables and welding cables.

Auveco Part No.	Cable Size	Length	Unit Pkg.
11724	6 Ga.	1"	10
11725	4 Ga.	1-1/4"	10
11726	2 Ga.	1-1/4"	10
11727	1 Ga.	1-3/8"	5
11728	1/0 Ga.	1-1/2"	5
11729	2/0 Ga.	1-3/4"	5
11731	4/0 Ga.	1-7/8"	2

Use Auveco Crimping Tool No. 7997

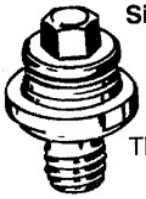


Brass Side Terminal Battery Bolt & Connector

15184

3/8-16 Thread
Overall Length: 1-1/4"

UNIT PACKAGE: 1

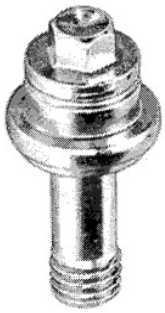


Zinc Plated Battery Side Terminal Bolt

11083
(8917444)

Thread Size 3/8-16
Overall Length: 1-1/8"
GM

UNIT PACKAGE: 10



19199
(12004188)
Zinc

Battery
Side Terminal Bolt
Thread Size: 3/8"-16
Overall Length: 1-3/4"
GM

UNIT PACKAGE: 5





Battery Terminal Bolt & Nut

Zinc Chromate

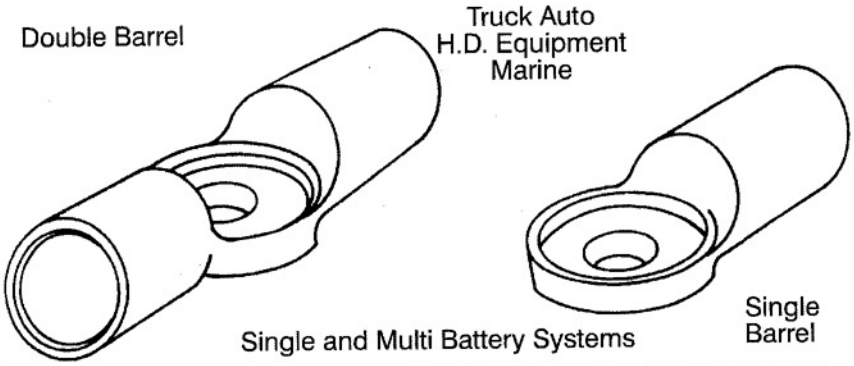
Auveco Part No.	Size		Unit Pkg.
3186	5/16"-18 x 1-1/4"	Bolt W/Collared Nut	100
8003	5/16"-18 x 1-1/4"	Bolt W/Hex Nut	50
8870	5/16"-18 x 1-1/2"	Bolt W/Collared Nut	100
14974	5/16"-18 x 1-1/4"	Bolt Only	50
14975	5/16"-18	Collared Nut Only	50

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Battery Terminals

BATTERY TERMINALS

Heavy Duty Battery Cable Terminal Ends For Stud-Type Batteries

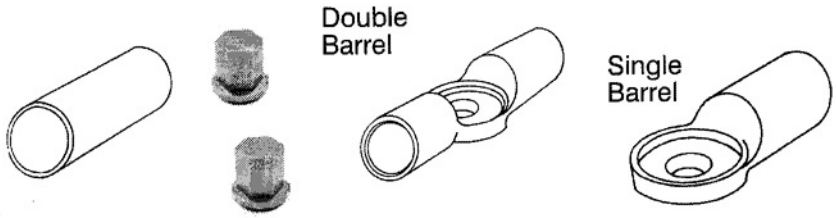


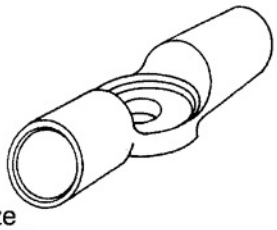


3/8 Stud Size
Copper/Plated

Auveco Part No.	Cable Size	Unit Pkg.
13810	1/0	2
13811	2/0	2
13812	3/0	2

Cable Terminal End Kits in 1 and 3/0 Sizes





3/8 Stud Size
Copper/Plated

Auveco Part No.	Cable Size	Unit Pkg.
13814	2/0	1
13815	3/0	1

Each Kit Contains The Following:

2 crimpable, copper terminals
2 battery terminal nuts
1 piece of red (+) heat-shrink tubing
1 piece of black (-) heat shrink tubing

13817

1/0 Cable Size
2 - Auveco 13810 - Single Barrel
Nuts/Shrink Tubing

UNIT PACKAGE: 1 Kit

13822

3/0 Cable Size
2 - Auveco 13815 - Double Barrel
Nuts / Shrink Tubing

UNIT PACKAGE: 1 Kit

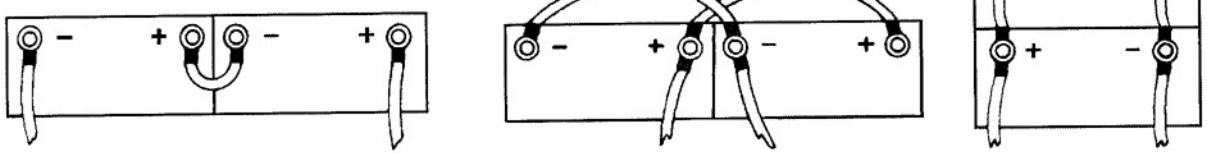


13816

Battery Hold Down Nuts
3/8-16
Stainless Steel
(18-8)

UNIT PACKAGE: 4

Suggested Terminal Assemblies



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HEAT SHRINK TUBING

Made In The U.S.A.



Black Thin Wall Heat Shrink Tubing

- 2 To 1 Shrink Ratio
- Highly Flame Retardant (VW-1)
- Cross linked Polyolefin
- UL Listed & CSA Certified

Auveco Part No.	Size	Pre-Shrink I.D.	Post-Shrink I.D.	Length	Unit Pkg.
18693	3/64"	.046"	.023"	6"	25
18694	1/16"	.063"	.031"	6"	25
18695	3/32"	.093"	.046"	6"	25
18696	1/8"	.125"	.062"	6"	25
18697	3/16"	.187"	.093"	6"	25
18698	1/4"	.250"	.125"	6"	25
18699	3/8"	.375"	.187"	6"	15
18700	1/2"	.500"	.250"	6"	15
18701	3/4"	.750"	.375"	6"	10
18702	1"	1.00"	.500"	6"	10
18703	1-1/2"	1.50"	.750"	6"	5
18704	2"	2.00"	1.00"	6"	5

Adhesive Lined Heat Shrink Tubing

- 4.5 To 1 Shrink Ratio
- Cross linked, Semi-Rigid Polyolefin Outer Jacket
- Hot-Melt Adhesive Inner Wall Adheres To All Major Types Of Wire
- Environmentally Seals & Insulates
- Meets O.E.M. Specs: Ford: ESB M99 D56 A1 Chrysler: MS-DB56

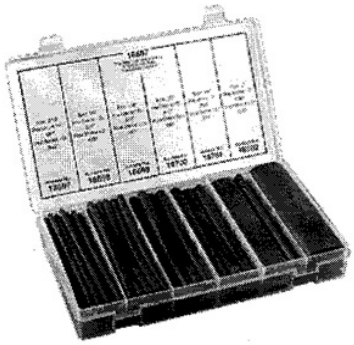
Auveco Part No.	Pre-Shrink I.D.	Post-Shrink I.D.	Length	Color	Unit Pkg.
18705	.225"	.050"	3-1/2"	Black	10
18706	.293"	.065"	3-1/2"	Black	10
18707	.427"	.095"	3-1/2"	Black	10
18708	.700"	.175"	3-1/2"	Black	5

Dual Wall Self-Sealing Heat Shrink Tubing

- Provides Waterproofing & Environmental Protection & Strain Relief Properties

Auveco Part No.	Size	Pre-Shrink I.D.	Post-Shrink I.D.	Length	Color	Unit Pkg.
16665	22-14 Ga.	.188"	.062"	12"	Black	4
16666	12-10 Ga.	.250"	.083"	12"	Black	4
18733	14-10 Ga.	.400"	.150"	6"	Black	4
19102	14-10 Ga.	.400"	.150"	6"	Black	25
18734	14-10 Ga.	.400"	.150"	6"	Red	4
19103	14-10 Ga.	.400"	.150"	6"	Red	25
18735	8-1 Ga.	.750"	.220"	6"	Black	4
19104	8-1 Ga.	.750"	.220"	6"	Black	25
18736	8-1 Ga.	.750"	.220"	6"	Red	4
19105	8-1 Ga.	.750"	.220"	6"	Red	25
18737	2-4/0 Ga.	1.100"	.375"	6"	Black	4
19106	2-4/0 Ga.	1.100"	.375"	6"	Black	25
18738	2-4/0 Ga.	1.100"	.375"	6"	Red	4
19107	2-4/0 Ga.	1.100"	.375"	6"	Red	25

Part No. 18887



Six inch lengths of black thin wall, cross linked polyolefin, heat shrink tubing in a durable translucent polypropylene box. The tubing has 2:1 shrink ratio.

Part No.	Qty.	Size	Pre-Shrink I.D.	Post-Shrink I.D.
18697	36	3/16"	.187"	.093"
18698	24	1/4"	.250"	.125"
18699	12	3/8"	.375"	.187"
18700	6	1/2"	.500"	.250"
18701	4	3/4"	.750"	.375"
18702	4	1"	1.00"	.500"

UNIT PACKAGE: 1

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BRASS FITTINGS

Inverted Flare Fittings



Inverted Nut (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
30	3/16"	10
31	1/4"	10
32	5/16"	10
33	3/8"	10
34	1/2"	10



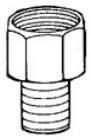
Inverted Nut (Steel)

Auveco Part No.	Tube Size	Unit Pkg.
35	1/8"	10
36	3/16"	10
37	1/4"	10
38	5/16"	10
39	3/8"	10
40	1/2"	10



Steel Plug

Auveco Part No.	Tube Size	Unit Pkg.
45	3/16"	10
46	1/4"	10
47	5/16"	10



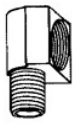
Male Connector (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
49	1/8"	1/8"	5
50	3/16"	1/8"	5
51	1/4"	1/8"	5
52	5/16"	1/8"	5
53	3/8"	1/4"	5
54	1/2"	3/8"	5



Union (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
68	1/8"	5
69	3/16"	5
70	1/4"	5
72	3/8"	5
73	1/2"	5



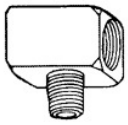
90° Male Elbow (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
74	1/8"	1/8"	5
75	3/16"	1/8"	5
76	1/4"	1/8"	5
77	5/16"	1/8"	5
78	3/8"	1/4"	5
79	1/2"	3/8"	5



45° Male Elbow (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
90	3/16"	1/8"	5
91	1/4"	1/8"	5



Male Branch (Brass)

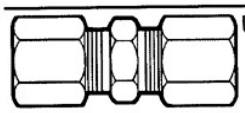
Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
96	3/16"	1/8"	5
97	1/4"	1/8"	5

Compression Fittings



Sleeve (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
101	1/8"	25
102	3/16"	25
103	1/4"	25
104	5/16"	25
105	3/8"	25
106	7/16"	10
107	1/2"	10
108	5/8"	10
109	3/4"	10



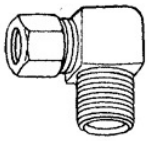
Union: (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
150	1/8"	5
151	3/16"	5
152	1/4"	5
153	5/16"	5
154	3/8"	5
155	1/2"	5



Nut (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
110	1/8"	10
111	3/16"	10
112	1/4"	10
113	5/16"	10
114	3/8"	10
115	7/16"	10
116	1/2"	10



Male Elbow (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
158	1/8"	1/8"	5
159	3/16"	1/8"	5
160	1/4"	1/8"	5
161	1/4"	1/4"	5
162	5/16"	1/8"	5
163	5/16"	1/4"	5
164	3/8"	1/8"	5
165	3/8"	1/4"	5
166	3/8"	3/8"	5
167	1/2"	3/8"	5
168	1/2"	1/2"	5

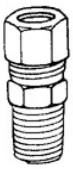
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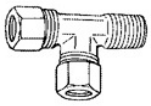
BRASS FITTINGS

Compression Fittings (continued)



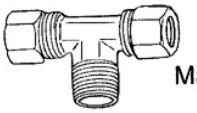
Male Connector (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
119	1/8"	1/8"	5
120	3/16"	1/8"	5
121	1/4"	1/8"	5
122	1/4"	1/4"	5
123	5/16"	1/8"	5
124	5/16"	1/4"	5
125	3/8"	1/8"	5
126	3/8"	1/4"	5
127	3/8"	3/8"	5
128	1/2"	3/8"	5



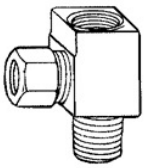
Male Run Tee (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
172	1/4"	1/8"	5
173	5/16"	1/8"	5



Male Branch Tee (Brass)

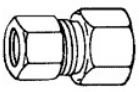
Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
181	3/16"	1/8"	5
182	1/4"	1/8"	5
183	5/16"	1/8"	5
185	1/2"	3/8"	5



Adapter Tee (Brass)

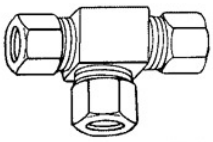
Auveco Part No.	Tube Size	Ext. Pipe Thd.	Int. Pipe Thd.
177	3/16"	1/8"	1/8"
178	1/4"	1/8"	1/8"

UNIT PACKAGE: 5



Female Connector (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
134	1/8"	1/8"	5
135	3/16"	1/8"	5
136	1/4"	1/8"	5
137	5/16"	1/8"	5



Union Tee (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
186	3/16"	5
187	1/4"	5
188	5/16"	5
189	3/8"	5

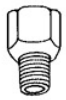
For an Assortment of Compression Fittings, see Fix-Kit No. 6119.

Double Compression (Threaded Sleeve) Fittings



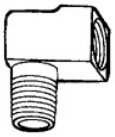
Nut (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
192	1/8"	10
193	3/16"	10
194	1/4"	10



Male Connector (Brass)

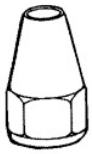
Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
198	1/8"	1/8"	5
199	3/16"	1/8"	5
200	1/4"	1/8"	5
201	5/16"	1/8"	5



Male Elbow (Brass)

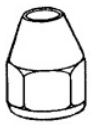
Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
205	1/8"	1/8"	5
206	3/16"	1/8"	5
207	1/4"	1/8"	5
208	5/16"	1/8"	5

S.A.E. 45° Flared Tube Fittings



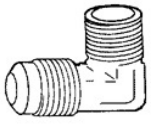
SE Flare Nut (Long) (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
211	3/16"	5
212	1/4"	5
213	5/16"	5
214	3/8"	5



SE Flare Nut (Short) (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
219	1/8"	5
221	1/4"	5
222	5/16"	5
223	3/8"	5
224	1/2"	5



Male Elbow (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
228	1/8"	1/8"	5
229	3/16"	1/8"	5
230	1/4"	1/8"	5
231	1/4"	1/4"	5
232	5/16"	1/8"	5
233	5/16"	1/4"	5
234	3/8"	1/4"	5
235	3/8"	1/8"	5
236	3/8"	3/8"	5

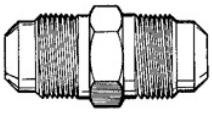
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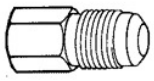
BRASS FITTINGS

S.A.E. 45° FLARED TUBE FITTINGS (continued)



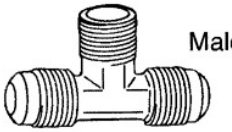
Union (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
243	3/16"	5
244	1/4"	5
245	5/16"	5
246	3/8"	5
247	1/2"	5



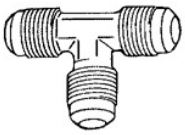
Female Connector (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
250	3/16"	1/8"	5
251	1/4"	1/8"	5
252	1/4"	1/4"	5
253	5/16"	1/8"	5
254	5/16"	1/4"	5
255	3/8"	1/4"	5
256	3/8"	1/8"	5



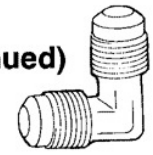
Male Branch Tee (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
277	3/16"	1/8"	5
278	1/4"	1/8"	5
280	3/8"	1/4"	5



Union Tee (Brass)

Auveco Part No.	Tube Size	Unit Pkg.
284	1/4"	5



Elbow - Union (Brass)

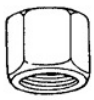
Auveco Part No.	Tube Size	Unit Pkg.
273	1/4"	5



Male Connector (Brass)

Auveco Part No.	Tube Size	Pipe Thread	Unit Pkg.
260	3/16"	1/8"	5
261	1/4"	1/8"	5
262	1/4"	1/4"	5
263	5/16"	1/8"	5
264	5/16"	1/4"	5
265	3/8"	1/4"	5
266	3/8"	1/8"	5
267	3/8"	3/8"	5
268	1/2"	3/8"	5
269	1/2"	1/2"	5

Pipe Fittings



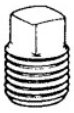
Cap (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
287	1/8"	5
288	1/4"	5



Slotted Plug (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
289	1/8"	5
290	1/4"	5



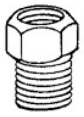
Square Head Plug (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
291	1/8"	5
292	1/4"	5
293	3/8"	5
294	1/2"	5



Hex Head Plug (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
295	1/8"	5
296	1/4"	5
297	3/8"	5
298	1/2"	5



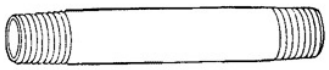
Bushing (Brass)

Auveco Part No.	Ext. Pipe Thd.	Int. Pipe Thd.	Unit Pkg.
299	1/4"	1/8"	5
300	3/8"	1/8"	5
301	3/8"	1/4"	5
302	1/2"	1/8"	5
303	1/2"	1/4"	5
304	1/2"	3/8"	5



Close Nipple (Brass)

Auveco Part No.	Lgth.	Pipe Thread	Unit Pkg.
305	3/4"	1/8"	5
306	7/8"	1/4"	5
307	1"	3/8"	5
308	1-1/8"	1/2"	5



Long Nipple (Brass)

Auveco Part No.	Lgth.	Pipe Thread	Unit Pkg.
309	1-1/2"	1/8"	5
310	2"	1/8"	5
311	2-1/2"	1/8"	5
312	3"	1/8"	5
313	1-1/2"	1/4"	5
314	2"	1/4"	5
315	2-1/2"	1/4"	5

Refer to page 226 for Pipe Thread Identification

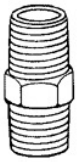
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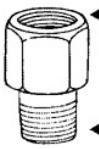
BRASS FITTINGS

Pipe Fittings (continued)



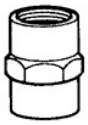
Hex Nipple (Brass)

Auveco Part No.	Pipe Thd. A	Pipe Thd. B	Unit Pkg.
316	1/8"	1/8"	5
317	1/4"	1/4"	5
318	1/4"	1/8"	5
319	3/8"	3/8"	5
320	3/8"	1/8"	5
321	3/8"	1/4"	5
322	1/2"	1/2"	5



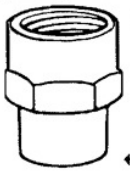
Adaptor (Brass)

Auveco Part No.	Pipe Thd. A	Pipe Thd. B	Unit Pkg
325	1/8"	1/8"	5
326	1/4"	1/8"	5
327	1/4"	1/4"	5
328	3/8"	1/4"	5
329	3/8"	3/8"	5
330	1/2"	3/8"	5



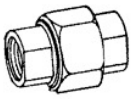
Coupling (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
331	1/8"	5
332	1/4"	5
333	3/8"	5
334	1/2"	5



Reducing Coupling (Brass)

Auveco Part No.	Pipe Thd. A	Pipe Thd. B	Unit Pkg.
335	1/4"	1/8"	5
336	3/8"	1/8"	5
337	3/8"	1/4"	5
339	1/2"	3/8"	5



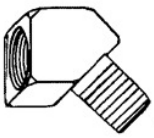
Union (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
340	1/8"	5
341	1/4"	5



90° Street Elbow (Brass)

Auveco Part No.	Int. Pipe Thd.	Ext. Pipe Thd.	Unit Pkg.
342	1/8"	1/8"	5
343	1/4"	1/4"	5
344	3/8"	3/8"	5
345	1/4"	1/8"	5



45° Street Elbow (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
347	1/8"	5
348	1/4"	5
349	3/8"	5



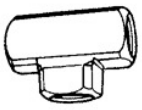
90° Pipe Elbow (Brass)

Auveco Part No.	Int. Pipe Thd.	Ext. Pipe Thd.	Unit Pkg.
350	1/8"	1/8"	5
351	1/4"	1/4"	5
352	3/8"	3/8"	5



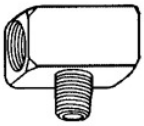
Cross (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
353	1/8"	5
354	1/4"	5



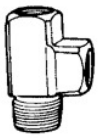
Tee (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
355	1/8"	5
356	1/4"	5
357	3/8"	5



Male Branch Tee (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
358	1/8"	5



Street Tee (Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
359	1/8"	5
360	1/4"	5

Pipe Thread Identification



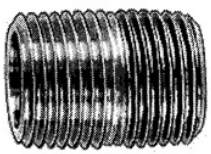
1/8"



1/4"



3/8"



1/2"

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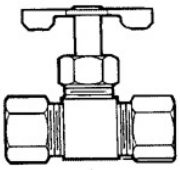
BRASS FITTINGS

Drain Cocks and Valves



External Seat
(Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
370	1/8"	5
371	1/4"	5
372	3/8"	5



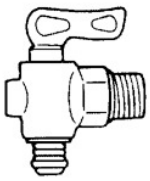
Compression Line
(Brass)

Auveco Part No.	Tube Size	Unit Pkg.
385	1/4"	3
386	5/16"	3



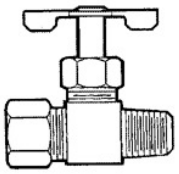
Angle Bib Drain
(Brass)

Auveco Part No.	Pipe Thd.	A	Unit Pkg.
374	1/4"	1-11/16"	5



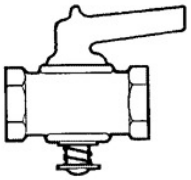
Ground Plug Drain
(Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
405	1/8"	5
406	1/4"	5
407	3/8"	5



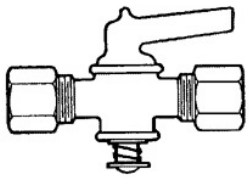
Compression Straightway
(Brass)

Auveco Part No.	Tube Size	Pipe Thd.	Unit Pkg.
412	3/8"	1/4"	5



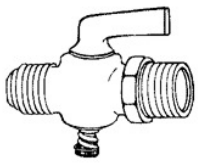
Female Pipe
Ground Plug Line
(Brass)

Auveco Part No.	Pipe Thread	Unit Pkg.
399	1/8"	3
401	1/4"	3



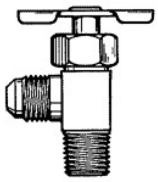
Compression Line
Ground Plug
(Brass)

Auveco Part No.	Tube Size	Unit Pkg.
389	5/16"	3



SE Straightway
(Ground Plug)
(Brass)

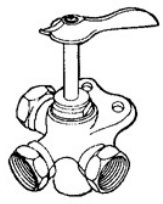
Auveco Part No.	Tube Size	Pipe Thd.	Unit Pkg.
394	3/8"	1/4"	3



SE Angle
(Brass)

Auveco Part No.	Tube Size	Pipe Thd.
395	1/4"	1/8"
398	3/8"	1/4"

UNIT PACKAGE: 3



Multiple Shut-Off Valves
Stem Short
(Brass)

Auveco Part No.	Desc.
404	3 Way 1/4 Female3 Ends

UNIT PACKAGE: 1

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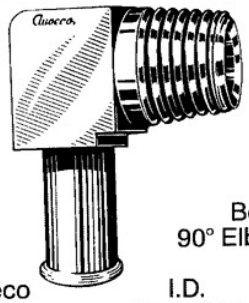
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BRASS FITTINGS



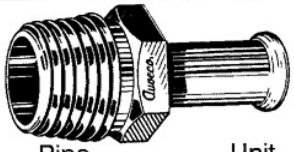
Ball End
Joint Adapter To
Taper Male Pipe

Auveco Part No.	Male N.P.S. Thread	Male N.P.T. Thread	Unit Pkg.
445	1/4"	1/4"	10
447	3/8"	3/8"	5
448	1/2"	3/8"	5



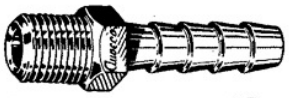
Beaded Hose Barb
90° Elbow Tube To Male Pipe

Auveco Part No.	I.D. Hose Size	Pipe Thread	Unit Pkg.
461	1/2"	3/8"	3
462	5/8"	1/4"	3
463	5/8"	3/8"	3
464	5/8"	1/2"	3
465	3/4"	1/2"	2



Beaded Hose Barb
Tube To Male Pipe

Auveco Part No.	I.D. Hose Size	Pipe Thread	Unit Pkg.
413	3/8"	3/8"	5
414	1/2"	1/4"	5
415	1/2"	3/8"	5
416	5/8"	3/8"	5
417	5/8"	1/2"	5
418	3/4"	1/2"	5



Hose Barb To
Taper Male Pipe

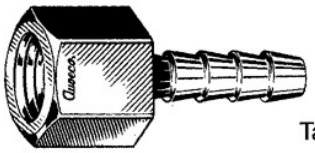
Auveco Part No.	I.D. Hose Size	Pipe Thread	Unit Pkg.
424	3/16"	1/8"	10
425	1/4"	1/8"	10
426	1/4"	1/4"	10
427	1/4"	3/8"	5
428	5/16"	1/8"	10
429	5/16"	1/4"	5
430	3/8"	1/8"	10
431	3/8"	1/4"	10
432	3/8"	3/8"	5
433	1/2"	1/4"	5
434	1/2"	3/8"	5
435	1/2"	1/2"	5



Barbed Hose Coupler

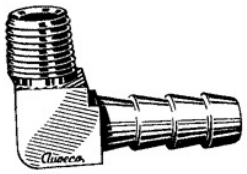
Auveco Part No.	I.D. Hose Size	Overall Length	Unit Pkg.
*419	3/16"	1.44"	5
420	1/4"	2.00"	5
421	5/16"	2.00"	5
422	3/8"	2.00"	5
423	1/2"	2.00"	5

* 3 Barb Design



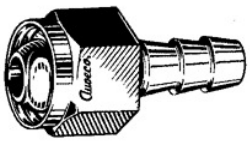
Hose Barb To
Taper Female Pipe

Auveco Part No.	I.D. Hose Size	Pipe Thread	Unit Pkg.
437	1/4"	1/4"	5
438	5/16"	1/4"	5
439	3/8"	1/8"	5
440	3/8"	1/4"	5
441	3/8"	3/8"	5
442	1/2"	3/8"	5
443	1/2"	1/2"	5



Hose Barb 90° Elbow
Tube To Male Pipe

Auveco Part No.	I.D. Hose Size	Pipe Thread	Unit Pkg.
455	1/4"	1/8"	5
456	1/4"	1/4"	5
457	3/8"	1/4"	5



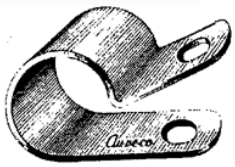
Hose Barb To
Swivel Female Ball End

Auveco Part No.	I.D. Hose Size	Female N.P.S. Thd.	Unit Pkg.
454	1/2"	1/2"	5

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TUBING CLAMPS



Natural Nylon Tubing Clamps

Auveco Part No.	Hole Dia.	Width	Tube Dia.	Unit Pkg.
15525	3/16"	3/8"	1/8"	50
15526	3/16"	3/8"	3/16"	50
9246	3/16"	3/8"	1/4"	25
9247	3/16"	3/8"	5/16"	25
9248	3/16"	3/8"	3/8"	25
9249	3/16"	3/8"	1/2"	25
9250	3/16"	1/2"	5/8"	25
9251	3/16"	1/2"	3/4"	25
9252	3/16"	1/2"	1"	25

Steel Clamps With Neoprene Jacket



Zinc Plated

UNIT PACKAGE: 10

Auveco Part No.	Tube Size	Band Width	Mounting Hole Diameter
20502	1/4"	1/2"	17/64"
20503	3/8"	1/2"	17/64"
20504	1/2"	1/2"	17/64"
20505	5/8"	1/2"	17/64"
20506	3/4"	1/2"	17/64"
20507	7/8"	1/2"	17/64"
20508	1"	1/2"	17/64"
20509	1-1/4"	1/2"	17/64"
20510	1-1/2"	1/2"	17/64"
20511	1-3/4"	1/2"	17/64"
20512	2"	1/2"	17/64"



Aluminum Tubing Clamps

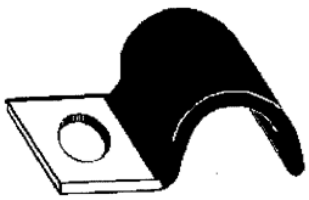
Plain Aluminum & Vinyl (PVC) Dipped

Vinyl Dipped Aluminum

Auveco Part No.	Hole Dia.	Width	Tube Dia.	Unit Pkg.
17361	5/32"	3/8"	1/4"	15
17362	5/32"	3/8"	5/16"	15
17363	5/32"	3/8"	3/8"	15
17364	5/32"	3/8"	1/2"	15
17365	5/32"	3/8"	5/8"	15
17366	5/32"	1/2"	3/4"	15
17367	5/32"	1/2"	7/8"	15
17368	5/32"	1/2"	1"	15

Plain Aluminum

Auveco Part No.	Hole Dia.	Width	Tube Dia.	Unit Pkg.
17369	5/32"	3/8"	1/4"	50
17370	5/32"	3/8"	5/16"	50
17373	5/32"	3/8"	5/8"	50
17374	5/32"	1/2"	3/4"	25
17375	5/32"	1/2"	7/8"	25
17376	5/32"	1/2"	1"	50



Insulated "Half" Clamps

Galvanized

Coated With Black Vinyl (1/32" Thick)

Auveco Part No.	Inside Diameter	Hole Diameter	Center To Center	Hole Center To End	Top of Radius To Base	Gauge	Width	Unit Pkg.
10608	3/16"	7/32"	7/16"	1/4"	5/32"	.032	1/2"	25
10609	1/4"	7/32"	1/2"	1/4"	7/32"	.048	1/2"	25
10610	5/16"	9/32"	17/32"	5/16"	9/32"	.048	5/8"	25
10611	3/8"	9/32"	9/16"	5/16"	11/32"	.048	5/8"	25
10612	7/16"	9/32"	5/8"	5/16"	13/32"	.060	5/8"	25
10613	1/2"	9/32"	11/16"	5/16"	15/32"	.060	5/8"	25
10614	5/8"	9/32"	13/16"	5/16"	9/16"	.060	5/8"	25
10615	3/4"	9/32"	7/8"	5/16"	11/16"	.060	5/8"	25

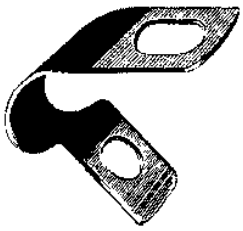
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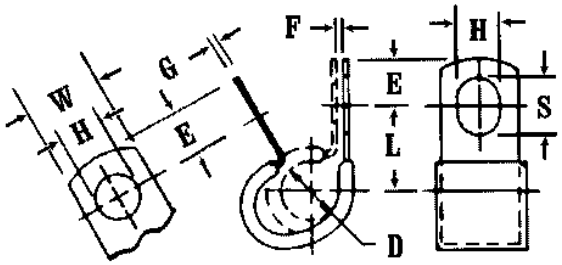
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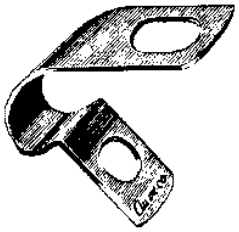
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STEEL INSULATED CLOSED CLAMPS

Furnished Open
Galvanized
Coated With Black Vinyl (1/32" Thick)







UNIT PACKAGE: 25 PCS.

Auveco Part No.	D Inside Diameter	H Hole Diameter	L Center to Center	W Width	E Hole Center To End	F Gap	G Gauge	S Slot Length
Small Hole Clamps								
17087	3/16"	9/32"	1/2"	1/2"	5/16"	1/32"	.032"	3/8"
9381	1/4"	9/32"	17/32"	1/2"	5/16"	1/32"	.032"	3/8"
9382	5/16"	9/32"	9/16"	1/2"	5/16"	1/32"	.032"	3/8"
9383	3/8"	9/32"	19/32"	1/2"	5/16"	1/16"	.032"	3/8"
9384	1/2"	9/32"	21/32"	1/2"	5/16"	1/16"	.048"	3/8"
9385	5/8"	9/32"	23/32"	1/2"	5/16"	1/16"	.048"	3/8"
9386	3/4"	9/32"	25/32"	1/2"	5/16"	1/16"	.048"	3/8"
9387	7/8"	9/32"	27/32"	1/2"	5/16"	1/16"	.048"	3/8"
9388	1"	9/32"	29/32"	1/2"	5/16"	1/16"	.048"	3/8"
Large Hole Clamps								
10598	1/4"	13/32"	21/32"	3/4"	7/16"	1/32"	.032"	1/2"
10599	5/16"	13/32"	11/16"	3/4"	7/16"	1/32"	.032"	1/2"
10600	3/8"	13/32"	23/32"	3/4"	7/16"	1/16"	.032"	1/2"
10601	1/2"	13/32"	25/32"	3/4"	7/16"	1/16"	.048"	1/2"
10602	5/8"	13/32"	27/32"	3/4"	7/16"	1/16"	.048"	1/2"
10603	3/4"	13/32"	29/32"	3/4"	7/16"	1/16"	.048"	1/2"
10604	7/8"	13/32"	31/32"	3/4"	7/16"	1/16"	.048"	1/2"
10605	1"	13/32"	1-1/32"	3/4"	7/16"	1/16"	.048"	1/2"
10606	1-1/4"	13/32"	1-5/32"	3/4"	7/16"	1/16"	.048"	1/2"
10607	1-1/2"	13/32"	1-9/32"	3/4"	7/16"	1/16"	.048"	1/2"
17588*	1-3/4"	13/32"	1-13/32"	3/4"	7/16"	1/16"	.048"	1/2"
17589*	2"	13/32"	1-9/16"	3/4"	7/16"	1/16"	.048"	1/2"

* Unit Package: 10

Steel Uninsulated Closed Clamps Furnished Open

Galvanized
UNIT PACKAGE: 25 Pcs.

9389	1/4"	9/32"	1/2"	1/2"	5/16"	1/32"	.032"	3/8"
9391	3/8"	9/32"	9/16"	1/2"	5/16"	1/32"	.032"	3/8"

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Misc. Items & Vinyl PVC Tubing

MISCELLANEOUS ITEMS

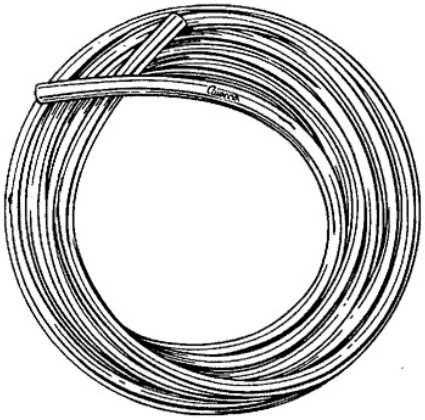




Shaft Collars

Precision machined from cold finished steel. Equipped with cup point socket set screws. Zinc plated finish.

Auveco Part No.	Bore (I.D.)	O.D.	Width	Set Screw Size	Unit Pkg.
15837	1/4"	1/2"	5/16"	#10 x 1/8"	5
15838	3/8"	3/4"	3/8"	1/4" x 3/16"	5
15839	1/2"	1"	7/16"	1/4" x 1/4"	5
15840	5/8"	1-1/8"	1/2"	5/16" x 1/4"	5
15841	3/4"	1-1/4"	9/16"	5/16" x 1/4"	5
15843	1"	1-5/8"	5/8"	5/16" x 5/16"	2
15844	1-1/4"	2"	11/16"	3/8" x 3/8"	2



Clear Flexible Vinyl (PVC) Tubing

Our tubing has a broad range of chemical resistance to acids, alkalies and solvents. It's ideal for use in industrial air pressure line applications, in the food industry (FDA approved), for potable water, and for various gases and chemicals. Not For Use With Gasoline.

Auveco Part No.	I.D.	O.D.	Wall Thickness	*Maximum Suggested Working Pressure (PSI @ 70° F)	Unit Package Quantity
14801	1/8"	1/4"	1/16"	59	100 Ft.
14802	3/16"	5/16"	1/16"	51	100 Ft.
14803	1/4"	3/8"	1/16"	51	100 Ft.
14804	5/16"	7/16"	1/16"	48	100 Ft.
14805	3/8"	1/2"	1/16"	41	100 Ft.
14806	3/8"	5/8"	1/8"	55	100 Ft.
14807	1/2"	5/8"	1/16"	28	100 Ft.
14808	1/2"	3/4"	1/8"	41	100 Ft.

*We recommend verification by testing of the size and material to be used.

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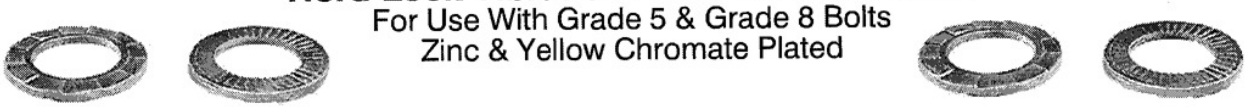
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WASHERS

Nord Lock Vibration Proof Lock Washers

For Use With Grade 5 & Grade 8 Bolts
Zinc & Yellow Chromate Plated



These washers have cams or wedges on one side, with a lead angle greater than a thread angle, and radial teeth or ribs on the other side. The washers are installed cam face to cam face. When tightening the fastener to preload, the teeth penetrate and seat against the joint material and the nut and/or fastener head. When subjected to vibration the interacting cams create a wedge action which prevents the fastener from vibrating loose.

Material: Carbon Steel
Hardness: Through Hardened: Min. 44HRC, Max. 51 HRC

Auveco Part No.	Bolt Size	O.D.	Unit Pkg.
19282	3/16" (5mm)	11/32"	50 (25 pr.)
19283	1/4" (6mm)	27/64"	50 (25 pr.)
19284	5/16" (8mm)	17/32"	50 (25 pr.)
19285	3/8" (10mm)	21/32"	50 (25 pr.)
19286	7/16" (11mm)	23/32"	30 (15 pr.)
19287	1/2"" (12mm)	49/64"	20 (10 pr.)
19288	9/16" (14mm)	29/32"	20 (10 pr.)
19289	5/8" (16mm)	1"	20 (10 pr.)
19290	3/4" (20mm)	1-7/32"	10 (5 pr.)
19291	1" (25mm)	1-17-32"	10 (5 pr.)

Nord Lock Vibration Proof Lock Washer Kit



Part No. 19313

The kit contains various quantities of the 10 different sizes (19282-19291) for a total of 156 nord lock washers in a durable translucent polypropylene box.

UNIT PACKAGE: 1

External Lock Washers

Zinc

Auveco Part No.	Bolt Size	O.D.	Unit Pkg.
5249	#4 (3/32")	1/4"	100
5250	#6 (1/8")	5/16"	100
5251	#8 (5/32")	3/8"	100
5252	#10 (3/16")	3/8"	100
5253	#12 (7/32")	15/32"	100
5254	#14 (1/4")	1/2"	100
5255	5/16"	19/32"	100
5256	3/8"	11/16"	100
5257	7/16"	3/4"	100
5258	1/2"	7/8"	100
16676	5/8"	1-1/32"	50
16677	3/4"	1-3/16"	50
16679	1"	1-9/16"	25

Internal Lock Washers

Zinc

Auveco Part No.	Bolt Size	O.D.	Unit Pkg.
5259	#4 (3/32")	1/4"	100
5260	#6 (1/8")	9/32"	100
5261	#8 (5/32")	5/16"	100
5262	#10 (3/16")	3/8"	100
5263	#12 (7/32")	13/32"	100
5264	#14 (1/4")	15/32"	100
5265	5/16"	19/32"	100
5266	3/8"	11/16"	100
5267	7/16"	25/32"	100
5268	1/2"	7/8"	100
16672	5/8"	1-1/16"	100
16673	3/4"	1-7/32"	50
16675	1"	1-19/32"	10

Countersunk External Lock Washers

Zinc

Auveco Part No.	Bolt Size	O.D.	Unit Pkg.
5270	#6 (1/8")	9/32"	100
5271	#8 (5/32")	5/16"	100
5272	#10 (3/16")	11/32"	100
5274	#14 (1/4")	7/16"	100

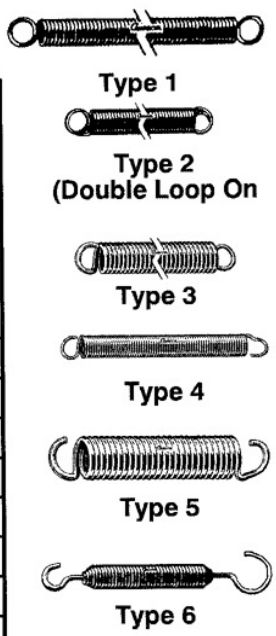
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SPRINGS

Extension Springs

Zinc

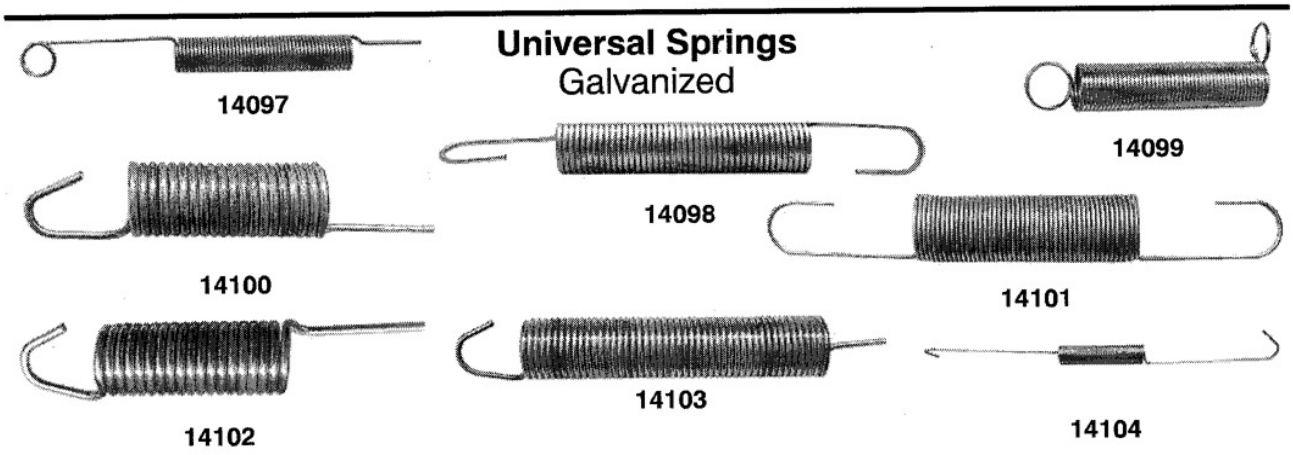
Auveco Part No.	Unit Pkg.	Type	Length Overall	Coil Length	O.D.	Wire Size	Lbs Rate/ Inch	Approx. Lbs Load @ Reference Ext.
14057	5	3	10"	9.000"	.625"	.072"	2.1	8.8 @ 13"
14058	5	3	10"	9.250"	.500"	.062"	1.8	10.2 @ 12"
14059	5	2	6.438"	5.575	.438"	.048"	1.1	4.2 @ 8.437"
14060	5	1	6.500"	5.925"	.328"	.035"	7.5 oz.	2.2 @ 8.500"
14061	5	3	5.625"	4.975"	.547"	.080"	10.0	24 @ 7.625"
14062	5	1	5.750"	5.375"	.250"	.028"	7 oz.	1.6 @ 7.750"
14063	5	4	3.250"	2.750"	.375"	.041"	1.9	5.2 @ 5.250"
14064	5	1	4.00"	3.450"	.250"	.028"	13 oz.	1.9 @ 6.00"
14065	5	3	4.500"	3.575"	.484"	.063"	6.2	14 @ 6.500"
14066*	5	1	4.062"	2.750"	.734"	.062"	1.4	4.3 @ 6.062
14067	5	3	4.00"	2.825"	.719"	.105"	12.5	36.5 @ 5.00"
14068	10	6	5.250"	3.000"	.531"	.062"	5.0	8.5 @ 6.250
14069	5	5	2.594"	1.500"	.750"	.105"	46	29.5 @ 2.968"
14070	5	5	2.656"	1.500"	.750"	.080"	10.3	12.5 @ 3.656"
14072	10	3	1.438"	.825"	.344"	.048"	15.0	10 @ 1.812"
14074	10	3	1.125"	.700"	.234"	.020"	12.0	9 oz. @ 1.625"



* Not Zinc Plated

Universal Springs

Galvanized



Auveco Part No.	Unit Pkg.	Length Overall	Coil Length	O.D.	Wire Size
14097	10	11-1/2"	1-7/8"	13/32"	1/32"
14098	10	4-3/8"	2-1/2"	1/2"	1/16"
14099	10	1-13/16"	1-1/2"	3/8"	1/32"
14100	10	8-1/2"	1-7/8"	3/4"	3/32"
14101	10	5-3/4"	2-3/8"	25/32"	3/64"
14102	10	18-1/2"	2"	13/16"	3/32"
14103	10	17-1/2"	3-1/2"	3/4"	1/16"
14104	10	8-1/4"	2"	7/16"	1/16"

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WIRE LOOM CLIPS
(ILLUSTRATIONS ACTUAL SIZE)

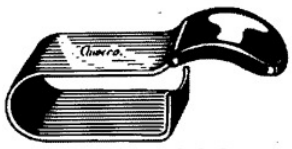
Vinyl (PVC) Cushion Clips Are Recommended For Underhood Or High Heat Applications



18161
Phosphate

Wire Loom Clips
With Vinyl (PVC) Cushion
Truck Body Frame

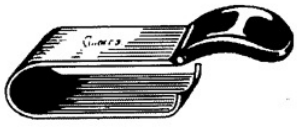
UNIT PACKAGE: 25



18160
Phosphate

Wire Loom Clips
With Vinyl (PVC) Cushion
Truck Body Frame

UNIT PACKAGE: 25



18162
Phosphate
Wire Loom Clips
With Vinyl (PVC) Cushion
Truck Body Frame

UNIT PACKAGE: 25



18159
Phosphate

Wire Loom Clips
With Vinyl (PVC) Cushion
Truck Body Frame

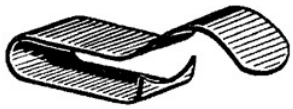
UNIT PACKAGE: 25



2382

Wire Loom Clips
Clamps two 3/16" wires

UNIT PACKAGE: 100



1340

Wire Loom Clips
1/4" Clamping Dia.

UNIT PACKAGE: 100



1341
Wire Loom Clips
3/16" Clamping Dia.

UNIT PACKAGE: 100



3758

Wire Loom Clips
3/8" Clamping Dia.

UNIT PACKAGE: 100



2306

Wire Loom Clips
All Cars - All Models

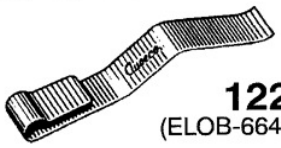
UNIT PACKAGE: 100



14388
(145525)

Heavy Duty Frame Wiring Clip
3/16" Clamping Diameter
Fits panels from .030"-.230"

UNIT PACKAGE: 50



12229
(ELOB-66454A30-AA)

Wire Harness Retainer Clip
Ford 1980-On

UNIT PACKAGE: 25



3759

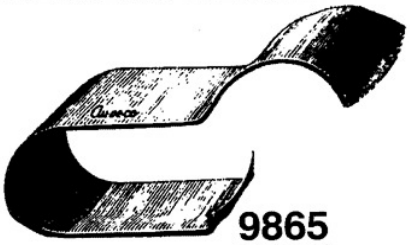
Wire Loom Clips
All Cars - All Models

UNIT PACKAGE: 50



9864
(372741-S100)
General Purpose Wire Loom Clip

UNIT PACKAGE: 100



9865
(373415)

General Purpose Wire Loom Clip

UNIT PACKAGE: 100

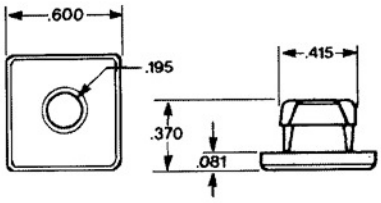
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License Plate Fasteners

(ILLUSTRATION ACTUAL SIZE)

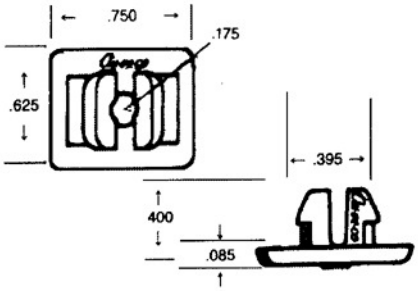




11719
(3907444, 4755299)
Nylon

1/4" (#14) Screw Size
License Plate Nut
GM

UNIT PACKAGE: 50





11368
(380707-S)
Nylon

#14 Screw Size
License Plate Nut
Ford

UNIT PACKAGE: 50



8242
(6023925)
Nylon

1/4" (#14) Screw Size
License Plate Nut
Chrysler
Use With Auveco Screw 8249

UNIT PACKAGE: 50



8418
(380370)
Nylon

#14 Screw Size
License Plate Nut
GM
Use With Auveco Screw 3089

UNIT PACKAGE: 50



8954
Nylon

#14 Screw Size
License Plate Nut
Use With Auveco Screws
8249 or 8952

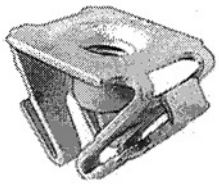
UNIT PACKAGE: 50



19485
(6027958)
Natural Nylon

1/4" (#14) Screw Size
License Plate Nut
Chrysler

UNIT PACKAGE: 10



19317
(15707256)
Zinc Organic

Front Fender Extension
& License Plate Bracket
Retainer Nut
M6-1.0 Screw Size
GM Express & Savanna
1996-On

UNIT PACKAGE: 10

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GREASE FITTINGS
(Also Available In Large Bulk Quantities)



1/4"-28, Straight
Thread Length: 9/64"
Overall Length: 1/2"
Ball Check, Plated

15055 Unit Pkg: 50



1/4"-28, Straight
Thread Length: 7/32"
Overall Length: 9/16"
Ball Check, Plated

9257 Unit Pkg: 50



1/4"-28 Straight
Overall Length: 11/16"
Ball Check, Plated

9258 Unit Pkg: 50



1/4"-28, Straight
Overall Length: 15/16"
Ball Check, Plated

9259 Unit Pkg: 25



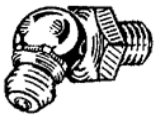
1/4"-28, Straight
Self-Tapping
Overall Length: 9/16"
Ball Check, Plated

15000 Unit Pkg: 50



1/4"-28, 45°
Overall Length: 29/32"
Ball Check, Plated

9260 Unit Pkg: 25



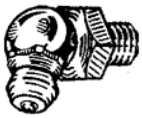
1/4"-28, 45°
Thread Length: .3"
Overall Length: 1"
Ball Check, Plated

15056 Unit Pkg: 25



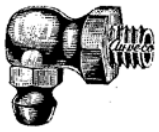
1/4"-28, 45°
Self-Tapping
Overall Length: 55/64"
Ball Check, Plated

19172 Unit Pkg: 25



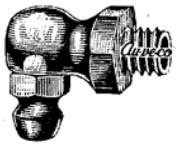
1/4"-28, 65°
Overall Length: 25/32"
Ball Check, Plated

15053 Unit Pkg: 25



1/4"-28, 90°
Overall Length: 45/64"
Ball Check, Plated

9261 Unit Pkg: 25



1/4"-28, 90°
Self-Tapping
Over Length: 43/64"
Ball Check, Plated

19176 Unit Pkg. 25



1/4" Drive Fit
Straight
Overall Length: 1/2"
Ball Check, Plated

15054 Unit Pkg: 25



1/4" Drive Fit, Straight
Overall Length: 27/64"
No Check Valve
Plated

15065 Unit Pkg: 50

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GREASE FITTINGS
(Also Available In Large Bulk Quantities)



1/8" Pipe, St.
Overall Length: 5/8"
Ball Check, Plated

9262 Unit Pkg: 50



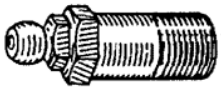
1/8" Pipe, 45°
Overall Length: 1"
Ball Check, Plated

9264 Unit Pkg: 25



1/8" Pipe, 65°
Overall Length: 7/8"
Ball Check, Plated

9265 Unit Pkg: 25



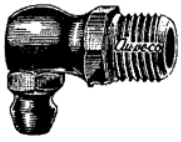
1/8" Pipe, St.
Overall Length: 1-1/4"
Ball Check, Plated

9267 Unit Pkg: 25



1/8" Pipe, St.
Self-Tapping
Overall Length: 39/64"
Ball Check, Plated
Nominal Hole Size: 3/8"

15066 Unit Pkg: 25



1/8" Pipe, 90°
Overall Length: 53/64"
Ball Check, Plated

9266 Unit Pkg: 25



3/16" Drive Fit, St.
Overall Length: 1/2"
Ball Check, Plated

15060 Unit Pkg: 50



5/16"-24, Straight
Overall Length: 5/8"
Ball Check, Plated

15057 Unit Pkg: 25



5/16" Drive Fit, St.
Overall Length: 9/16"
Ball Check, Plated

15061 Unit Pkg: 50



3/8"-24, Straight
Overall Length: 5/8"
Ball Check, Plated

15058 Unit Pkg: 25



1/4" Pipe, St.
Overall Length: 27/32"
Ball Check, Plated

15059 Unit Pkg: 25



1/4" Pipe, 65°
Overall Length: 1"
Ball Check, Plated

15062 Unit Pkg: 10

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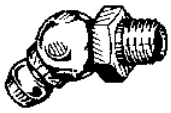
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METRIC GREASE FITTINGS
(Also Available In Large Bulk Quantities)



6mm-1.00, Straight
DIN 71412
Overall Length: 14mm
Ball Check, Plated

11097 Unit Pkg: 5



6mm-1.00, 45°
Overall Length: 22mm
Ball Check, Plated

11775 Unit Pkg: 10



6mm-1.00, 90°
Overall Length: 18mm
Ball Check, Plated

11776 Unit Pkg: 10



8mm-1.00, Straight
DIN 71412
Overall Length: 15mm
Ball Check, Plated

11098 Unit Pkg: 5



8mm-1.00, 45°
Overall Length: 23mm
Ball Check, Plated

11777 Unit Pkg: 10



8mm-1.00, 90°
DIN 71412
Overall Length:
18mm
Ball Check, Plated

11099 Unit Pkg: 5



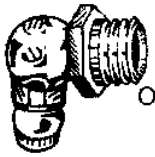
8mm-1.25, Straight
Overall Length: 15mm
Ball Check, Plated

11778 Unit Pkg: 10



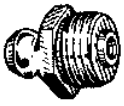
8mm-1.25, 45°
Overall Length: 23mm
Ball Check, Plated

11779 Unit Pkg: 10



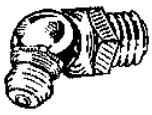
8mm-1.25, 90°
Overall Length: 18mm
Ball Check, Plated

11780 Unit Pkg: 10



10mm-1.00, Straight
DIN71412
Overall Length: 15mm
Ball Check, Plated

11100 Unit Pkg: 5



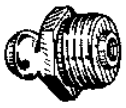
10mm-1.00, 45°
Overall Length: 23mm
Ball Check, Plated

15067 Unit Pkg: 25



10mm-1.00, 90°
DIN 71412
Overall Length:
19mm
Ball Check, Plated

11101 Unit Pkg: 5



10mm-1.5 Straight
Overall Length: 15mm
Ball Check, Plated

17555 Unit Pkg: 50

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STAINLESS STEEL
GREASE FITTINGS WITH BALL CHECK
303 Series Body • 420 Series Ball • 302 Series Spring



17154

1/8" Pipe, Straight
Overall Length: 5/8"

UNIT PACKAGE: 5



17676

1/4" Drive Fit, Straight
Overall Length: 1/2"

UNIT PACKAGE: 10



17155

6mm-1.00, Straight
Overall Length: 14mm

UNIT PACKAGE: 5



17156

8mm-1.00, Straight
Overall Length: 15mm

UNIT PACKAGE: 5



17680

8mm-1.00, 90°
Overall Length: 17.8mm

UNIT PACKAGE: 5

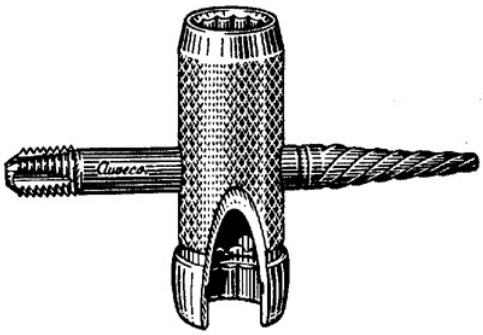
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GREASE FITTING TOOLS & GUNS

4-Way Grease Fitting Tools



15693

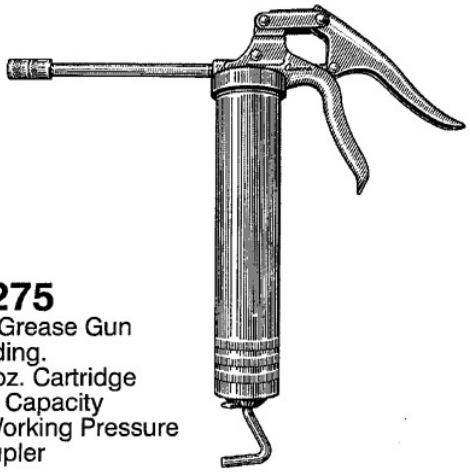
For popular 1/4-28 and 6mm fittings. Tap repairs 1/4-28 threads. Wrench removes 5/16" and 3/8" hex fittings and plugs. Installs new 1/4-28 fittings. "Easy-out" removes broken fittings.

UNIT PACKAGE: 1

15694

For 1/8" NPT fittings. Tap repairs 1/8" NPT threads. Wrench removes 7/16" and 3/8" hex fittings and plugs. Installs new 1/8" NPT fittings. "Easy Out" removes broken fittings.

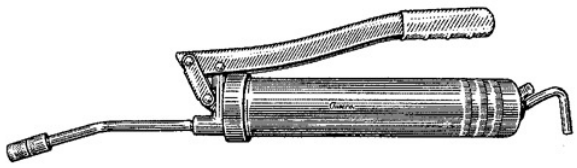
UNIT PACKAGE: 1



16275

One-Hand Grease Gun
3-Way Loading.
Uses 14.5 oz. Cartridge
16 oz. Bulk Capacity
2500 PSI Working Pressure
3 Claw Coupler
Blue

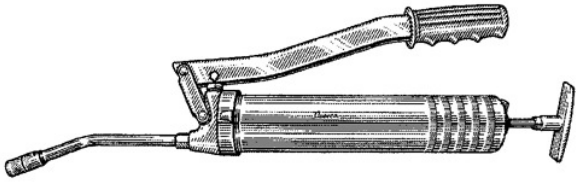
UNIT PACKAGE: 1



16276

Heavy Duty Grease Gun
3-Way Loading
Uses 14.5 oz. Cartridge
16 oz. Bulk Capacity
10,000 PSI Working Pressure
3 Claw Coupler
Blue With Orange Vinyl Grip

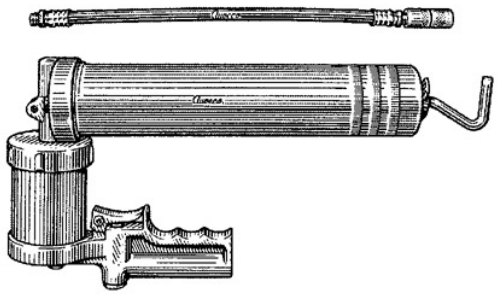
UNIT PACKAGE: 1



16277

Professional Grease Gun
Delivers Grease At Various Lever Openings
3-Way Loading
Uses 14.5 oz. Cartridge
16 oz. Bulk Capacity
Variable Pressure
4 Claw Coupler
Zinc With Black Rubber Grip

UNIT PACKAGE: 1



16278

Air Operated Grease Gun
Pressure Ratio 50:1
Required Air Pressure: 30-120 PSI.
Suggested Working Air
Pressure: 90 PSI
3-Way Loading
Use 14.5 oz. Cartridge
16 oz. Bulk Capacity
4 Claw Coupler
Gray

UNIT PACKAGE: 1

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GREASE GUN ACCESSORIES & PIPE PLUGS

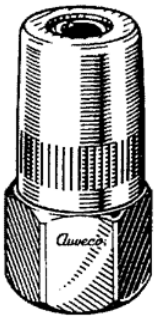


15688

Grease Gun Coupler
With Ball Check

Fits 1/8" NPT Threads
For hand operated lube equipment. Working pressure: 3,000 PSI
Overall Length: 1-3/8"

UNIT PACKAGE: 1



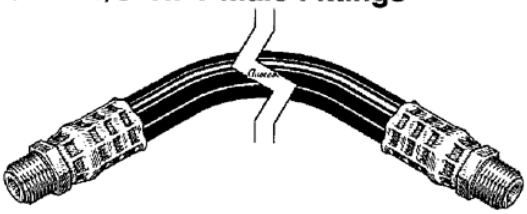
15689

Heavy Duty
Grease Gun
Coupler
With Ball Check

Fits 1/8" NPT Threads
For hand operated lube equipment only.
Working pressure: 5,000 PSI
Overall Length: 1-7/16"

UNIT PACKAGE: 1

Grease Gun Hoses
1/8" NPT Male Fittings



15691	15692	16279	16280
12" 3000 PSI	18" 3000 PSI	12" 5800 PSI	18" 5800 PSI
UNIT PKG: 1	UNIT PKG: 1	UNIT PKG: 1	UNIT PKG: 1

Grease Fitting Caps

Polyethylene caps that snap over fittings to seal out dirt and moisture. Integral ring keeps cap in place during servicing.



18109	18110	18111
Black	Red	Yellow
U.P. 50	U.P. 50	U.P. 50

Square Drive Pipe Plug

Cold Rolled Steel



16307

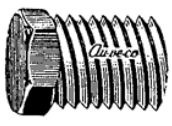
Plain

3/8" Pipe Thread
3/8" Square Drive
Accommodates Standard 3/8" Drive Rachet

UNIT PACKAGE: 10

Hex Head Pipe Plugs

Cold Rolled Steel
Plain Finish



Auveco Part No.	O.E.M. No.	Pipe Size	Unit Pkg.
9278	GM: 444613	1/8-27	25
9279	GM: 444619, GM: 444620	1/4-18	25
9280		3/8-18	25
9281		1/2-14	25

Socket Head Pipe Plugs

Cold Rolled Steel
Plain Finish



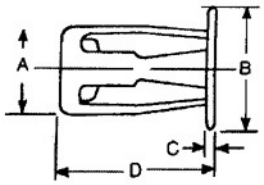
Auveco Part No.	O.E.M. No.	Pipe Size	Unit Pkg.
9282	GM: 9427882	1/8-27	25
9283	GM: 444776	1/4-18	25
9284	GM: 444782	3/8-18	25
9285	GM: 444667, GM: 444789	1/2-14	25

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JACK NUTS®

Material - 1010 Steel - Zinc Plated





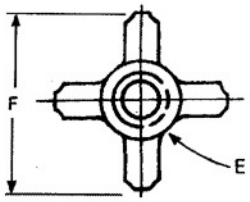
Type 1



Type 2



Type 3



Auveco Part No.	Unit Pkg.	Type	Thread (E)	Body Dia.(A)	Head Dia. (B)	Cap Thick ©)	Overall Lgth (D)	Grip Range	Required Hole Dia.	Maximum Spread (F)**
13012	25	1	6-32	.318	.468	.073	.653	1/64"-3/16"	.315-.330	.660
13014	25	1	10-24	.382	.531	.073	.716	1/64"-3/16"	.385-.400	.760
13016	25	1	1/4"-20	.438	.625	.073	.731	1/64"-3/16"	.434-.450	.890
16235*	15	2	1/4"-20	.438	.625	.073	.731	1/64"-3/16"	.434-.450	.890
13017	25	1	1/4"-20	.438	.625	.073	.919	3/16"-3/8"	.434-.450	.890
16227	25	1	M4-.7	.318	.468	.073	.841	3/16"-3/8"	.318-.330	.720
16228	25	1	M5-.8	.382	.531	.073	.716	1/64"-3/16"	.382-.400	.760
16234•	25	3	M6-1.0	.438	.625	.073	.731	1/64"-3/16"	.438-.450	.890

* Raintite Sealer ** Spread Varies With Material Thickness • Sealer

Special Purpose Jack Nuts®

Auveco Part No.	O.E.M. Number	Type	Thread	Finish	O.E.M. Application	Unit Pkg.
12995	GM: 367292 Chry: 6031438	3	1/4-20	Zinc w/Sealer	GM Mirror Mounting Nut	25
12996	GM: 367292 Chry: 6031438	3	1/4-20	Zinc w/ Sealer	GM Mirror Mounting Nut	100
12998	GM: 1623436	2	M5-.8	Zinc w/Raintite	GM "J" Body Rack Mount	10
16230	GM: 5970995	1	M6-1.0	Zinc	License Plate Mounting Bracket	25
12997	GM: 1635218, 10014363	1	M6-1.0	Zinc w/Laquer	GM License Plate Nut	25
12999	GM: 14007940	2	M6-1.0	Zinc w/Raintite	GM "X" & "Y" Roof Rack Mounting Nut	10

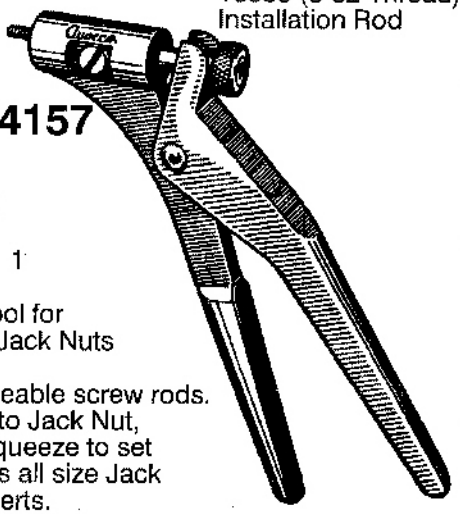
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JACK NUT® INSTALLATION TOOLS

Tool comes with 16856 (6-32 Thread) Installation Rod



Part No. 14157
Professional Jacknut® Installation Tool

UNIT PACKAGE: 1

An economical tool for rapidly installing Jack Nuts in any material.
Takes interchangeable screw rods. Just screw rod into Jack Nut, push into hole, squeeze to set and remove. Sets all size Jack Nut Threaded Inserts.

Part No. 14156
Friction Wrench



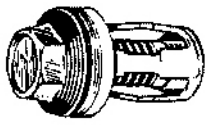
For use when installing a limited quantity of Jack Nuts. Insert the wrench between the screw and the head of the fastener, hold wrench and run in screw to set Jack Nut.

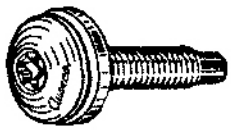
UNIT PACKAGE: 10

Jacknut® Installation Rods
Use w/14157 Installation Tool



Auveco Part No.	Unit Pkg.	Thread
16856	1	6-32
14158	1	10-24
14159	1	1/4-20
14160	1	4mm
14161	1	5mm
14162	1	6mm





Mirror Mounting Screws And Jack Nuts

For additional information refer to listings on pages 25, 26 and 52.

Auveco Part No.	Description	Unit Pkg.
13231	1/4-20 x 7/8" Screw (Phos.)	25
13232	1/4-20 x 7/8" Screw (Phos) & Jack Nut®	25
14947	M6 x 26mm Screw (Chrome)	25
14976	1/4-20 x 1-1/4" Screw (Stainless Steel)	25
14977	1/4-20 x 1-1/4" Screw (Stainless Steel) & Jack Nut®	10
17179	1/4-20 x 1-1/4" Screw (Phos. Organic)	25

Square Head Plastic Expansion Nut
Use with #8 or #10 Tapping Screws



Auveco Part No.	Head Height	Body Length	Body Width	Square Panel Hole	Unit Pkg.
11308	.500	.305	.25	.250-.281	50

Square Head Nylon Push-In Nut



Diameter 3/8"
Thickness .025/.035

Auveco Part No.	Thread Size	Hole Size Square	Panel Range	Unit Pkg.
10305	#8	.265/.292	.030/.160	50

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WASHERS

Countersunk Type Washers





Screw Size	I.D.	O.D.	Nickel Plated Brass Unit Pkg. 100	Nickel Plated Brass Unit Pkg. 144	Nickel Plated Brass Unit Pkg. 1000	Black Zinc Plated Brass Part No.	Black Zinc Plated Brass Unit Pkg.	Plain Brass Part No.	Plain Brass Unit Pkg.
#4	9/64"	3/8"	**612**		**7613**			**16590**	100
#6	11/64"	7/16"	**614**	**7143**	**7615**	**16011**	100		
#8	13/64"	1/2"	**616**	**7145**	**7616**	**16012**	100	**16592**	100
#10	1/4"	19/32"	**618**	**7147**	**7618**	**16013**	100	**16593**	100
#12	9/32"	11/16"	**619**	**7148**				**16594**	100
#14	5/16"	25/32"	**620**	**7149**	**7620**				

Flanged Type Countersunk Washers





Screw Size	I.D.	O.D.	Nickel On Brass Part No.	Black Zinc On Brass Part No.	Stainless Steel Part No.	Unit Pkg.
#6	5/32"	1/2"	**3469**		**3470**	100
#8	13/64"	5/8"	**2515**	**16009**	**2597**	100
#10	1/4"	11/16"	**3471**	**16010**	**3472**	100

Flush Type Washers

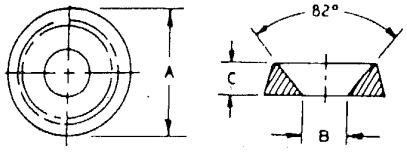




Nickel Plated On Brass

Unit Pkg. 100	Unit Pkg. 144	Unit Pkg. 1000	Screw Size	I.D.	O.D.
602	**7137**	**7624**	#6	5/32"	11/32"
604	**7138**	**7625**	#8	3/16"	3/8"
16015		**16016**	#10	13/64"	15/32"

Nylon Finishing Washers





Available in natural or black nylon, these molded washers protect cabinets from scratching, cover misaligned holes, etc. May also be used as guides, bumpers and spacers.

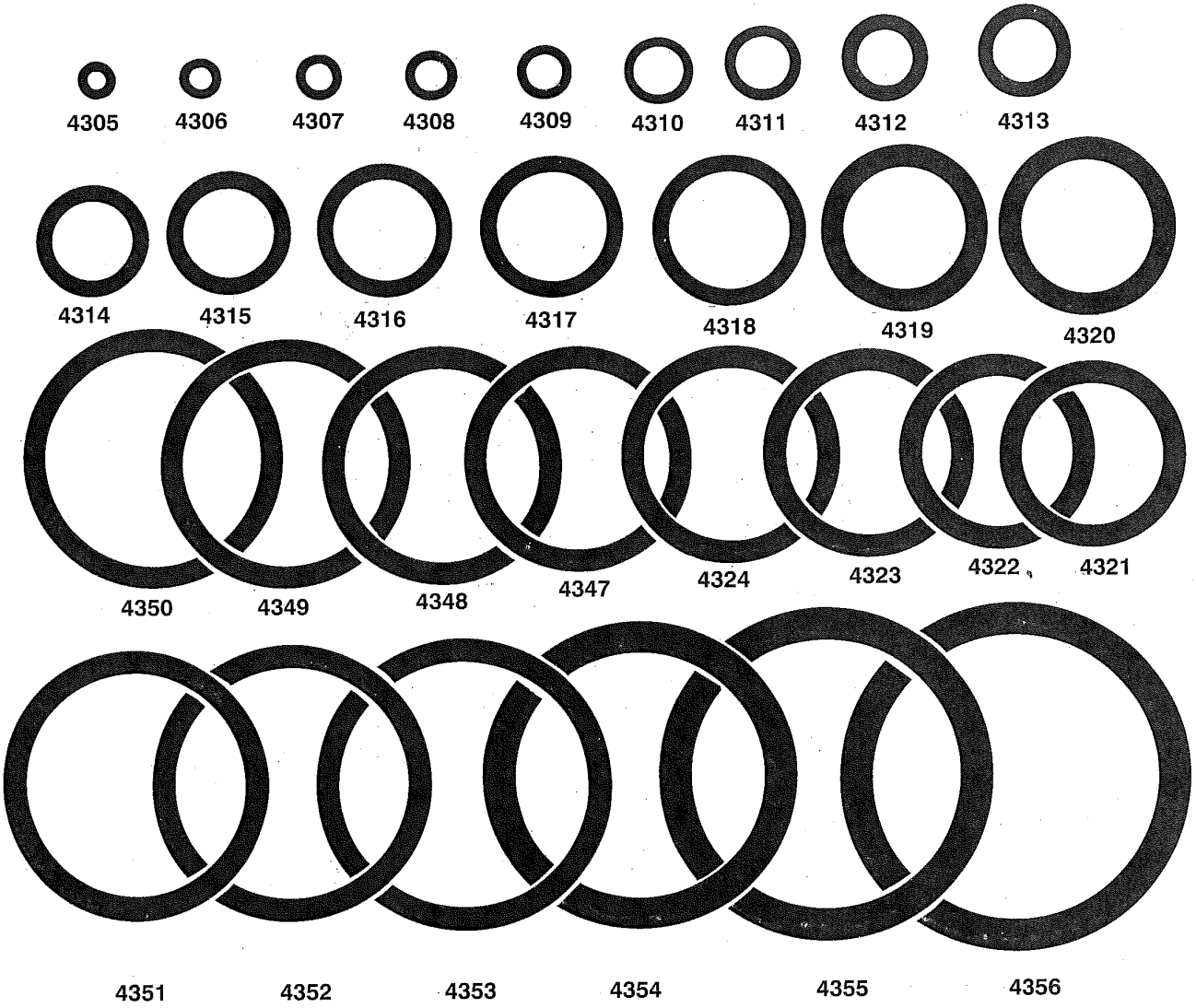
Auveco Part No.	Screw Size	O.D. (A)	I.D. (B)	Thickness (C)	Color	Unit Pkg.
13717	#6	.437" (11.10mm)	.143" (3.63mm)	.100" (2.54mm)	Black	50
13718	#8	.515" (13.08mm)	.171" (4.34mm)	.115" (2.92mm)	Natural	50
13719	#8	.515" (13.08mm)	.171" (4.34mm)	.115" (2.92mm)	Black	50
13720	#10	.580" (14.73mm)	.191" (4.85mm)	.152" (3.86mm)	Natural	50
13721	#10	.580" (14.73mm)	.191" (4.85mm)	.152" (3.86mm)	Black	50
13722	#12	.609" (15.47mm)	.225" (5.72mm)	.160" (4.06mm)	Natural	50
13723	#12	.609" (15.47mm)	.225" (5.72mm)	.160" (4.06mm)	Black	50
13724	#14	.683" (17.35mm)	.251" (6.38mm)	.183" (4.65mm)	Natural	50
13725	#14	.683" (17.35mm)	.251" (6.38mm)	.183" (4.65mm)	Black	50

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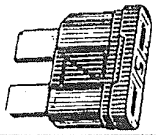
BUNA "N" RUBBER "O" RINGS



THICKNESS
4305 thru 4311 .....1/16"
4312 thru 4318 .....3/32"
4319 thru 4353 .....1/8"
4354 thru 4356 .....13/64"
Temperature Rating: 70 hours @ 100°C

Auveco Part No.	Ind. Std.	I.D.	O.D.	Unit Pkg.
4305	006	1/8"	1/4"	50
4306	007	5/32"	9/32"	50
4307	008	3/16"	5/16"	50
4308	009	7/32"	11/32"	50
4309	010	1/4"	3/8"	50
4310	011	5/16"	7/16"	50
4311	012	3/8"	1/2"	50
4312	110	3/8"	9/16"	50
4313	111	7/16"	5/8"	50
4314	112	1/2"	11/16"	50
4315	113	9/16"	3/4"	50
4316	114	5/8"	13/16"	50
4317	115	11/16"	7/8"	50
4318	116	3/4"	15/16"	50
4319	210	3/4"	1"	50
4320	211	13/16"	1-1/16"	50
4321	212	7/8"	1-1/8"	50
4322	213	15/16"	1-3/16"	50
4323	214	1"	1-1/4"	50
4324	215	1-1/16"	1-5/16"	50
4347	216	1-1/8"	1-3/8"	25
4348	217	1-3/16"	1-7/16"	25
4349	218	1-1/4"	1-1/2"	25
4350	219	1-5/16"	1-9/16"	25
4351	220	1-3/8"	1-5/8"	25
4352	221	1-7/16"	1-11/16"	25
4353	222	1-1/2"	1-3/4"	25
4354	325	1-1/2"	1-7/8"	25
4355	326	1-5/8"	2"	25
4356	327	1-3/4"	2-1/8"	25

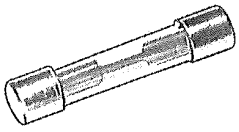
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ATC®/ATO® (Blade Type) Fuses

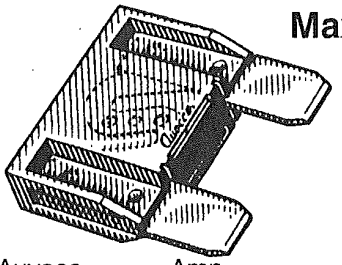
Auveco Part No.		Amp Rating	Color
Unit Pkg. 5	Unit Pkg. 25		
12534	**12548**	3	Violet
12535	**12549**	4	Pink
12536	**12550**	5	Tan
12537	**12551**	7-1/2	Brown
12538	**12552**	10	Red
12539	**12553**	15	Blue
12540	**12554**	20	Yellow
12541	**12555**	25	White
12542	**12556**	30	Green

Glass Tube Fuses



Auveco Part No.	Size	Amp	Code	Unit Pkg.
18981	1/4" x 1-1/4"	2	AGC-2	5
17625	1/4" x 1-1/4"	3	AGC-3	5
17626	1/4" x 1-1/4"	5	AGC-5	10
17627	1/4" x 1-1/4"	7.5	AGC-7.5	10
12545	1/4" x 1-1/4"	10	AGC-10	5
12546	1/4" x 1-1/4"	15	AGC-15	5
18982	1/4" x 1-1/4"	20	AGC-20	5
12543	1/4" x 1-1/4"	20	SFE-20	5
18983	1/4" x 1-1/4"	25	AGC-25	5
12544	1/4" x 1-7/16"	30	SFE-30	5
12547	1/4" x 1-1/4"	30	AGC-30	5

Maxi™ Fuses



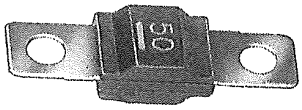
Auveco Part No.	Amp Rating	Color	Unit Pkg.
15505	20	Yellow	2
15506	30	Green	2
15507	40	Orange	2
15508	50	Red	2
15509	60	Blue	2

Mini Fuses



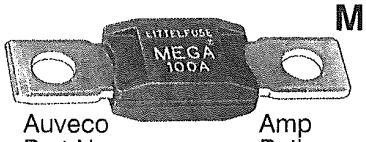
Auveco Part No.	Amp Rating	Color	Unit Pkg.
16351	2	Gray	5
16352	3	Purple	5
16353	4	Pink	5
16354	5	Tan	5
16355	7.5	Brown	5
16356	10	Red	5
16357	15	Blue	5
16358	20	Yellow	5
16359	25	White	5
16360	30	Green	5

Midi Fuses



Auveco Part No.	Amp Rating	Unit Pkg.
18984	50	2
18985	80	2

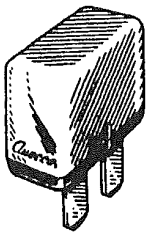
Mega Fuses



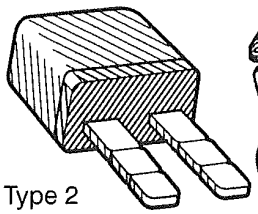
Auveco Part No.	Amp Rating	Unit Pkg.
18986	100	2
18987	125	2
18988	150	2
18989	175	2
18990	200	2
18991	225	2
18992	250	2

Circuit Breakers

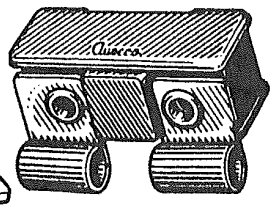
Automatic Re-Set



Type 1



Type 2



Type 3

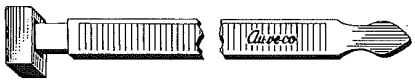
Auveco Part No.	Type	Specifications	Unit Pkg.
15046	1	30 Amps At 12 Volts	5
18518	2	10 Amps At 12 Volts	2
18519	2	15 Amps At 12 Volts	2
18520	2	20 Amps At 12 Volts	2
18521	2	30 Amps At 12 Volts	2
18522	2	40 Amps At 12 Volts	2
15047	3	20 Amps At 12 Volts	5
15048	3	30 Amps At 12 Volts	5
15049	3	40 Amps At 12 Volts	5

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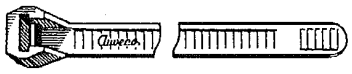
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Self-Clamping Natural Nylon Straps (Reusable)



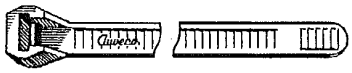
Auveco Part No.	Tensile Strength	Strap Length	Max Bundle Dia.	Width	Unit Pkg.
10217	18 lb.	3-7/8"	3/4"	3/32"	10
9636	50 lb.	6-5/8"	1-3/4"	3/16"	10
9637	50 lb.	14-7/8"	4"	3/16"	10
10218	120 lb.	14-1/2"	4"	9/32"	10

Black Nylon Cable Ties Self Clamping



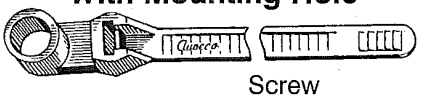
Auveco Part No.	Tensile Strength	Length	Width	Unit Pkg.
15144	18 lb.	4"	3/32"	100
15196	18 lb.	4"	3/32"	1000
15145	30 lb.	5-1/2"	1/8"	100
15197	30 lb.	5-1/2"	1/8"	1000
15146	50 lb.	7"	3/16"	50
15198	50 lb.	7"	3/16"	1000
15147	50 lb.	11"	3/16"	50
15199	50 lb.	11"	3/16"	500
15753	50 lb.	14"	3/16"	25
15148	120 lb.	14"	5/16"	25
15200	120 lb.	14"	5/16"	500

Natural Nylon Cable Ties Self Clamping



Auveco Part No.	Tensile Strength	Length	Width	Unit Pkg.
11953	18 lb.	3"	3/32"	50
11954	18 lb.	4"	3/32"	50
14836	18 lb.	4"	3/32"	100
15188	18 lb.	4"	3/32"	1000
11955	30 lb.	5"	1/8"	50
14837	30 lb.	5"	1/8"	100
15189	30 lb.	5"	1/8"	1000
11956	50 lb.	7"	5/32"	25
14838	50 lb.	7"	5/32"	50
15190	50 lb.	7"	5/32"	1000
11957	50 lb.	11"	5/32"	25
14839	50 lb.	11"	5/32"	50
15191	50 lb.	11"	5/32"	500
15754	50 lb.	14"	5/32"	25
11958	120 lb.	14"	9/32"	10
14840	120 lb.	14"	9/32"	25
15192	120 lb.	14"	9/32"	500

Black Nylon-Cable Ties Self-Clamping With Mounting Hole

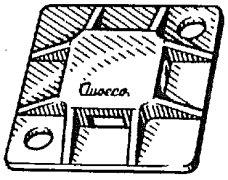


Auveco Part No.	Tensile Strength	Length	Screw Hole Size	Width	Unit Pkg.
15149	30 lb.	6"	#8	1/8"	50
15201	30 lb.	6"	#8	1/8"	500
15150	50 lb.	7-1/2"	#10	3/16"	50
15202	50 lb.	7-1/2"	#10	3/16"	250
15151	120 lb.	14-3/4"	#14	5/16"	25
15203	120 lb.	14-3/4"	#14	5/16"	200

Natural Nylon-Cable Ties Self-Clamping With Mounting Hole



Auveco Part No.	Tensile Strength	Length	Screw Hole Size	Width	Unit Pkg.
11960	30 lb.	5"	#8	1/8"	50
15193	30 lb.	5"	#8	1/8"	250
11961	50 lb.	7"	#10	5/32"	50
15194	50 lb.	7"	#10	5/32"	250
11963	120 lb.	13"	#14	9/32"	10
15195	120 lb.	13"	#14	9/32"	100

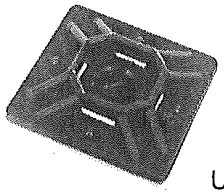


12360
Natural Nylon

Ideal for light duty applications, it uses a #6 flat head screw or 1/8" flat head rivet. The mount features a 4 way insertion and accepts 18, 30, and 50 pound cable ties. Size: 1" x 1"

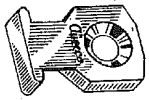
UNIT PACKAGE: 10

These 4 way insertion mounts offer the same features as our 12360 mount with the addition of a pressure sensitive adhesive on the back. Size: 1" x 1"



12361
Natural Nylon
UNIT PKG: 10

16001
Black Nylon
UNIT PKG: 10



12362

Ideal for high density applications, use a #8 screw. Once the mount is secured the tie is slipped over the mount and applied as usual.

UNIT PACKAGE: 25

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BALL JOINT ASSEMBLIES

Rod End Ball Joints (Male)

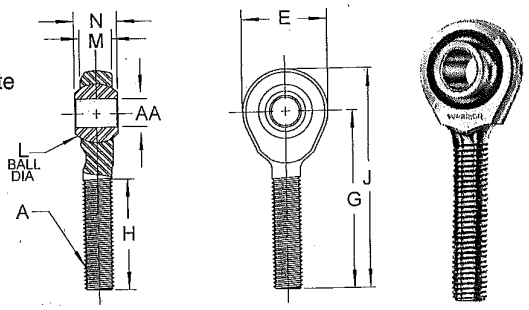
Bearing Raceway - Locked in by annular groove-trunnion design. Made of fiber reinforced nylon.

Outer Member (Housing) - Low carbon steel, plated plus dichromate treated for corrosion resistance.

Spherical Ball - Precision make from selected low carbon steel-case hardened - file hard. Plated plus dichromate treated for corrosion resistance.

Left Hand Thread - Available with left hand thread in most sizes. Marked for easy user identification.

Only Available Fully Assembled



Dimensions

Auveco Part No.	Thread Size (A)	AA	E	G	H	J	L	M	N	Unit Pkg.	Thread
12268 **12269**	10-32	.189 .191	.625	1.250	.750	1.562	.438	.250	.312	1 1	R L
12270 **12271**	1/4-28	.250 .252	.750	1.562	1.000	1.937	.516	.281	.375	1 1	R L
12021 **12272**	5/16-24	.3125 .3145	.875	1.875	1.250	2.312	.625	.344	.437	1 1	R L
12022 **12273**	3/8-24	.375 .377	1.000	1.937	1.250	2.437	.719	.406	.500	1 1	R L
12485	7/16-20	.4395 .4375	1.125	2.125	1.312	2.687	.812	.437	.562	1	R
12023 **12274**	1/2-20	.500 .502	1.312	2.437	1.500	3.094	.938	.500	.625	1 1	R L
12024	5/8-18	.625	1.500	2.625	1.625	3.375	1.125	.562	.750	1	R
12486	3/4-16	.752 .750	1.750	2.875	1.750	3.750	1.312	.687	.875	1	R

Rod End Ball Joints (Female)

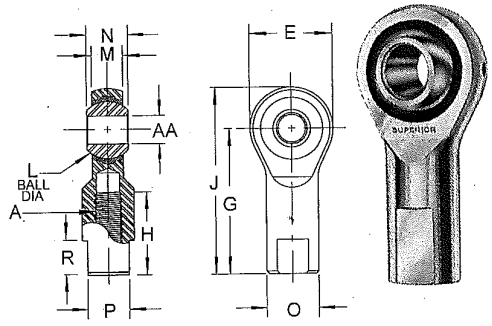
Bearing Raceway - Locked in by annular groove-trunnion design. Made of fiber reinforced nylon.

Spherical Ball - Precision make from selected low carbon steel-case hardened - file hard. Plated plus dichromate treated for corrosion resistance.

Outer Member (Housing) - Low carbon steel, plated plus dichromate treated for corrosion resistance.

Left Hand Thread - Available with left hand thread in most sizes. Marked for easy user identification.

Only Available Fully Assembled



Dimensions

Auveco Part No.	Thread Size (A)	AA	E	G	H	J	L	M	N	O	P	R	Unit Pkg.	Thread
12025 **12276**	10-32	189 .191	.625	1.062	.562	1.375	.438	.250	.312	.406	.312	.406	1 1	R L
12026 **12277**	1/4-28	.250 .252	.750	1.312	.750	1.687	.516	.281	.375	.469	.375	.406	1 1	R L
12027 **12278**	5/16-24	.3125 .3145	.875	1.375	.750	1.812	.625	.344	.437	.500	.437	.500	1 1	R L
12028 **12279**	3/8-24	.375 .377	1.000	1.625	.937	2.125	.719	.406	.500	.687	.562	.562	1 1	R L
12487	7/16-20	.4395 .4375	1.125	1.812	1.032	2.375	.812	.437	.562	.750	.625	.625	1	R
12029 **12280**	1/2-20	.500 .502	1.312	2.125	1.187	2.781	.938	.500	.625	.875	.750	.687	1 1	R L
12281	5/8-18	.625	1.500	2.500	1.500	3.250	1.125	.562	.750	1.000	.875	.875	1	R
12488	3/4-16	.752 .750	1.750	2.875	1.562	3.750	1.312	.687	.875	1.125	1.000	1.000	1	R

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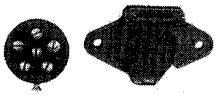
Female Receptacle for 6-Pole Connectors



- Female Insert
- Plug-in wire hook up
- For Part No. 2161 only
- Replaces Cole Hersee No. 11-57

Part No.	Description	Unit
2162	Female Receptacle for 6-Pole Connectors	1

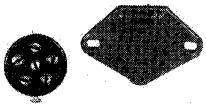
Female Receptacle for 6-Pole Connectors



- Die-cast housing
- Split contact pins
- Plug-in wire hook up
- Not self-grounding
- For use with Part Nos. 2017 and 2033
- Replaces Cole Hersee No. 1235

Part No.	Description	Unit
2016	Female Receptacle for 6-Pole Connectors	4

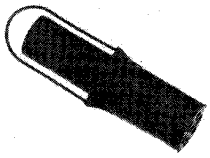
Female Receptacle for 6-Pole Connectors



- Die-cast housing
- Split contact pins
- Plug-in wire hook up
- Replaces Pollack No. 11-607

Part No.	Description	Unit
2150	Female Receptacle for 6-Pole Connectors	3

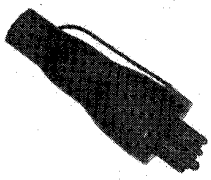
Adapter for 7-Pole or 6-Pole Connectors



- 7-pole male plug and 6-pole female receptacle
- Die-cast body
- Split contact pins
- Steel spring lock latch
- Completely assembled
- Used 6-way to ATA 7-way
- Replaces Velvac No. 591010

Part No.	Description	Unit
2079	Adapter for 7-Pole or 6-Pole Connectors	1

Adapter for 7-Pole & 6-Pole Connectors



- 7-pole female receptacle and 6-pole male plug
- Die-cast body
- Solid contact pins
- Steel spring lock latch
- Completely assembled
- Used ATA 7-way to 6-way
- Replaces Velvac No. 591009

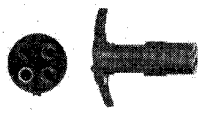
Part No.	Description	Unit
2037	Adapter for 7-Pole & 6-Pole Connectors	1

Tractor-Trailer 4-Pole Connectors

4-Pole Connectors 4-Way Circuit

Insert Code No.	Letter	Light-Signal Circuit
1	GD	Ground
2	S	Stop
3	A	Auxiliary Cir.
4	TM	ICC Marker

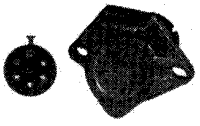
Male Plug for 4-Pole Connectors



- "Shur-Lock" design
- Finger grips
- Plug-in wire hook up
- Replaces Cole Hersee No. 1233

Part No.	Description	Unit
2170	Male Plug for 4-Pole Connectors	1

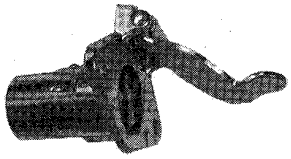
Female Receptacle for 4-Pole Connectors



- Split contact pins
- Plug-in wire hook-up
- Replaces Cole Hersee No. 1232

Part No.	Description	Unit
2172	Female Receptacle for 4-Pole Connectors	1

4-Way Trailer Connectors



- Chrome plated
- For marine and trailer use
- Spring loaded cover keeps elements out
- Flange mounting 1-3/4 on center

Part No.	Description	Unit
KP66891	4-way male assy.	1
KP66892	4-way female receptacle	1

Automotive Fuses

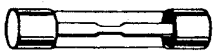
Glass Tube Fuses

- SFE-7½ and AWG-7½ are interchangeable
- SFE-20 and AGC-20 are interchangeable



AGA (formerly called 1AG)

Part No.	Symbol & Ampere	Size (In.)	Unit†
7565	AGA-1	¼ x ⅝	5
7556	AGA-2	¼ x ⅝	5
7557	AGA-3	¼ x ⅝	5
7568	AGA-5	¼ x ⅝	5
7554-1	AGA-20	¼ x ⅝	5
7562	AGA-30	¼ x ⅝	5



AGC (formerly called 3AG)

Part No.	Symbol & Ampere	Size (In.)	Unit†
7572	AGC-1	¼ x 1¼	5
7572-1	AGC-2	¼ x 1¼	5
7569	AGC-3	¼ x 1¼	5
7573	AGC-4	¼ x 1¼	5
7574	AGC-5	¼ x 1¼	5
KP4553	AGC 6¼	¼ x 1¼	5
7561	AGC-7½	¼ x 1¼	5
7558	AGC-10	¼ x 1¼	5
7559	AGC-15	¼ x 1¼	5
7543	AGC-20	¼ x 1¼	5
7567	AGC-25	¼ x 1¼	5
7560	AGC-30	¼ x 1¼	5
7574-1	AGC-35	¼ x 1¼	5



AGW (formerly called 7AG)

Part No.	Symbol & Ampere	Size (In.)	Unit
7571	AGW-4	¼ x ⅞	5
	AGW-7½	Use SFE-7½	5
7563	AGW-15	¼ x ⅞	5
7543-1	AGW-20	¼ x ⅞	5
7562-1	AGW-30	¼ x ⅞	5

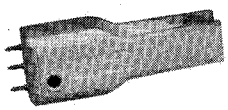
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Fuse Accessories

Fuse Tester/Puller



- Operates with or without voltage in circuit
- 24 volts maximum
- For ATO and Mini plug-in type fuses

Part No.	Description	Unit
20122	Fuse Tester/Puller	1

Tri-Puller

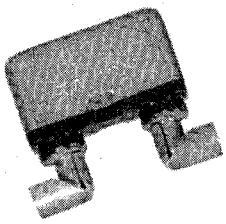


- Fuse puller for Glass and Ceramic type, ATO plug-in type, and Mini plug-in type
- 3″ long x 3/8″ wide
- One end hooked to Pull Glass and Ceramic types
- One end squeeze type for ATO and Mini Blade types

Part No.	Description	Unit
20117	Tri-Puller	1

Circuit Breaker

Fuse-Clip-Type Circuit Breakers



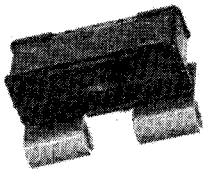
- 12 volt
- With extended fuse clip contacts
- Used by original equipment or can also be used to replace 1¼″ glass tubular fuses
- Automatic reset

Type I, Cycling, Automatic Reset

Part No.	Rating	Unit
2188	15 amp	5
2189	20 amp	5
2190	30 amp	5
2192	40 amp	5

Type I breakers cycle or continuously reset until the overload is corrected or corrects itself.

Fuse-Clip-Type Circuit Breakers



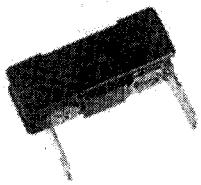
- 12 volt
- Used by original equipment or to replace 1¼″ glass tubular fuses
- Automatic reset

Type I, Non Cycling, Remote Reset

Part No.	Rating	Unit
2215	10 amp	5
2216	15 amp	5
2217	20 amp	5
2218	25 amp	5
2219	30 amp	5
2219-1	35 amp	5
2219-2	40 amp	5

Type I breakers cycle or continuously reset until the overload is corrected or corrects itself.

Quick Disconnect Terminal Type Circuit Breakers



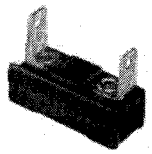
- Blade terminals on 1.08″ centers (27.40mm)
- Fits Navistar (IHC) breaker blocks

Type II, Non Cycling, Remote Reset

Part No.	Rating	Unit
2199-10	10 amp	5
2199-15	15 amp	5
2199-20	20 amp	5
2199-25	25 amp	5
2199-30	30 amp	5
C8883819	35 amp	5

Type II breakers open and remain open until the overload has been corrected.

Quick Disconnect Terminal Circuit Breakers



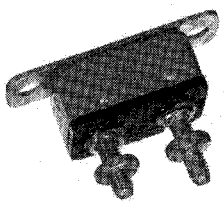
- Blade terminals on 1″ centers
- Fits Mack truck breaker blocks

Type II, Non-Cycling, Remote Reset

Part No.	Amperage	Mack Truck No.	Unit
KP78964	10	11MR24P4	5
2213-15	15	11MR24P5	5
2213-20	20	11MR24P6	5
2213-25	25	—	5
2213-30	30	11MR24P7	5

Type II breakers open and remain open until the overload has been corrected.

Stud-Type Circuit Breakers



- Universal 6 and 12 volt
- Two No. 10-32 stud terminals with nuts, lockwashers and mounting bracket
- Overall size: 2″ x 25/32″ x 1 3/8″
- Two 7/32″ mounting holes, 1 9/16″ on center

Type I, Cycling, Automatic Reset

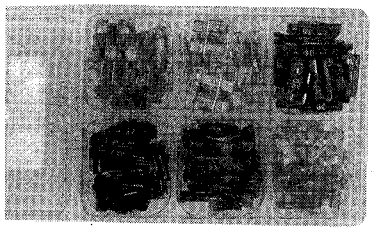
Part No.	Rating	Unit
C464030	10 amp	5
2193-2	15 amp	6
2193-3	20 amp	6
2193-4	30 amp	6
2193	40 amp	6

Type I breakers cycle or continuously reset until the overload is corrected or corrects itself.

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Fuses-Automotive

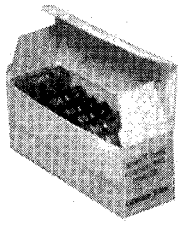
"Fast Pack" Assortments



- Kit contains: (15) 7½ amp, (17) 15 amp, (18) 25 amp, (15) 10 amp, (17) 20 amp, (18) 30 amp
- 100 assorted ATO fuses
- Six compartment plastic box

Part No.	Contents	Unit
C36021	ATO Fuses	1
C36022	Mini Fuse Kit	1

Maxi™ Fuse Dealer Kits



- 89/ GM, Ford, Chrysler cars and trucks

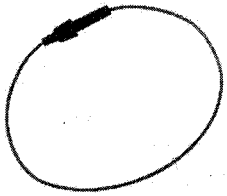
Part No.	Description	Unit
7380-D	Maxi™ Fuse Dealer Kit	1 Kit

Kit contains:

Rating	Color Code	Unit
MAX 20 amp	Yellow	1
MAX 30 amp	Green	2
MAX 40 amp	Orange	3
MAX 50 amp	Red	1
MAX 60 amp	Blue	3

Fuse Holder

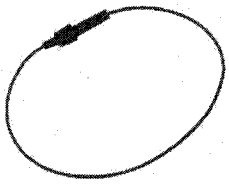
Fuse Holder for ¼" Glass Fuses



- Three finger twist lock
- Complete with SFE-14 amp fuse and 17½" loop of wire
- Black plastic

Part No.	Description	Unit
8682	16 gauge	5

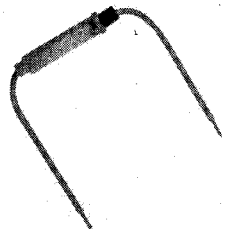
Fuse Holder for ¼" Glass Fuses



- Two pin twist lock
- Complete with SFE-20 amp fuse and 17½" loop of wire
- Black plastic

Part No.	Description	Unit
8683	16 gauge	5

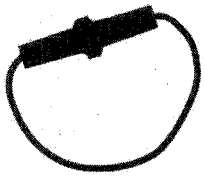
Fuse Holder for ¼" Glass Fuses



- Two pin twist lock
- Complete with AGC-30 amp fuse and 7" of wire
- Opaque and black plastic

Part No.	Description	Unit
8687	12 gauge	10

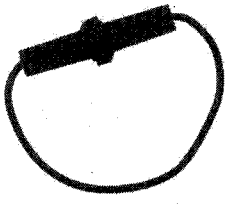
Fuse Holder for ¼" Glass Fuses



- Ready to install, 6 or 12 volt
- Fuse twists and locks into place
- 6" 18 gauge looped wire

Part No.	Description	Unit
8680	18 gauge	1

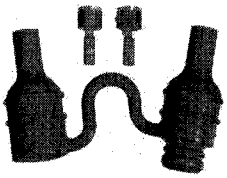
Fuse Holder for ¼" Glass Fuses



- Three finger twist lock
- For any 1¼" length tube fuse
- With 6½" loop of wire
- Opaque plastic

Part No.	Description	Unit
8686	16 gauge	5

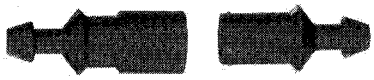
Fuse Holder for ¼" Glass Fuses



- Crimp type
- Weatherproof — ideal for harsh environments
- Rated 30 amps, 32 volts
- One piece molded yellow thermoplastic

Part No.	Description	Unit
8693	For 18-12 gauge	2

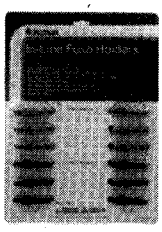
Fuse Holder for ¼" Glass Fuses



- Crimp type
- Rated 30 amps, 32 volts
- Snap-lock
- Yellow nylon

Part No.	Description	Unit
8694	For 18-12 gauge	5

Automotive Fuse Holder Card for ¼" Glass Fuses



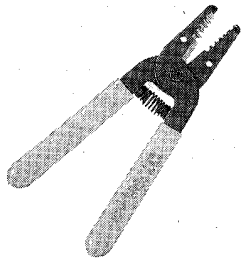
- Universal fuse holders with fuses
- Six with 14 amp fuse
- Six with 20 amp fuse

Part No.	Description	Unit
24209	16 gauge	1 card

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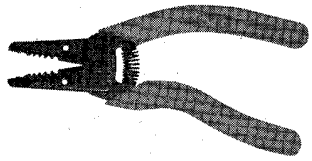
Ideal T® Stripper Wire Strippers



- Quality built strippers that feature looping holes and a built-in wire cutter
- The precision knife-type blades allow for an accurate, easy strip every time
- Equipped with a colorful, cushioned, plastic grip that offers comfort and high visibility

Part No.	Description	Wire Range	Unit
IDL-45-120	Standard T-5®	10-18 AWG Solid	1
KP28080	Standard T	16-26 AWG-Standard	1
KP28081	Standard T	8-16 AWG- Standard	1

Ideal® Reflex™ Premium Super T®-Stripper Wiring Tool



All of the T®-Stripper features plus:

- Contoured, comfort grip handles to reduce operator fatigue
- Ergonomic design for maximum comfort
- Curved handles to reduce wrist fatigue, with locking feature
- Sleeves that extend to stripping head to cushion thumb and fingers
- 6/32 and 8/32 screw cutting holes
- Made in the U.S.A.

Kar No.	Description	Handle Color
KP28082	8-16 AWG-Solid Wire	Yellow
KP150608	16-25 AWG-Stranded	Red
KP150609	8-16 AWG-Stranded	Red

ALL UNIT QTY: 1

Heat Shrink Tubing

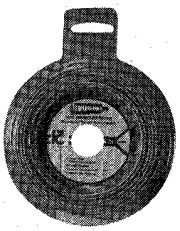
Thin Wall Heat Shrink Tubing

- Radiation cross-linked tubing constructed of flame retarded polyolefin; lightweight harness jackets
- Excellent physical, chemical and electrical properties
- 50% shrinkage ratio
- Designed for a wide range of applications, insulating and wire strain relief
- Operating temperature -67°F to +275°F (-55°C to +135°C) rated to 600 volts
- Meets MIL-I-23053/5 Class 1 and MIL-R-46846 Type V

Part No.	Color	For 2-Way Connectors Cable Sizes	Length	I.D. Min. Exp./ Max. Rec.	Unit
23538	Black	28-24 AWG	4″	.063/.031	20
KP26374	Clear	28-24 AWG	6	.063/.031	10
23539	Green	22-18 AWG	4″	.125/.062	20
23539-R	Green	22-18 AWG	25′	.125/.062	1 Roll
C423910	Clear	22-18 AWG	2″	.125/.062	10
C423008	Clear	22-18 AWG	25′	.125/.062	1 Roll
KP83915	Red	18-14 AWG	6	.187/.093	10
23540	Yellow	16-14 AWG	4″	.187/.093	20
C84024	Yellow	16-14 AWG	2′	.187/.093	5
23540-R	Yellow	16-14 AWG	25′	.187/.093	1 Roll
C423009	Clear	16-14 AWG	25′	.187/.093	1 Roll
23541	Blue	12-10 AWG	4″	.250/.125	20
C84025	Blue	12-10 AWG	2′	.250/.125	5
23541-R	Blue	12-10 AWG	25′	.250/.125	1 Roll
C423912	Clear	12-10 AWG	2″	.250/.125	10
C423010	Clear	12-10 AWG	25′	.250/.125	1 Roll
KP26321	Black	12-10 AWG	6	.312/.156	10
23542	Red	8-6 AWG	6″	.375/.187	20
C84026	Red	8-6 AWG	2′	.375/.187	5
23542-R	Red	8-6 AWG	25′	.375/.187	1 Roll
C423913	Clear	8-6 AWG	2″	.375/.187	10
C423011	Clear	8-6 AWG	25′	.375/.187	1 Roll
23543	Black	4-2 AWG	6″	.500/.250	10
C84027	Black	4-2 AWG	2′	.500/.250	5
23543-R	Black	4-2 AWG	25′	.500/.250	1 Roll
C423012	Clear	4-2 AWG	25′	.500/.250	1 Roll
23544	White	2, 1, 1/0 & 2/0 AWG	6″	.750/.375	10
C84028	White	2, 1, 1/0 & 2/0 AWG	6″	.750/.375	10
23544-R	White	1 3/0 AWG	25′	.750/.375	5
23545	Orange	3/0, 4/0, 250 & 350 MCM	6″	1.000/.500	5

Super Shrink Thin Wall Heat Shrink Tubing (continued)

Disk Pack

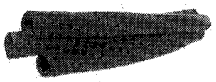


- Has all the same features, benefits and specifications as Kar's standard thin wall polyolefin heat shrink tubing
- Dispenser is designed to hold the tubing in place for easy cutting and provides for visual stock status along with convenient storage
- Disk pack contains 8 feet of tubing

Part No.	Tube Color	Tube Dia.	Tube I.D. Exp.	Tube I.D. Rec.	Wire Range	Wall Thickness
KP26357	Black	1/8	.125	.062	22-18	.020
KP26363	Red	1/8	.125	.062	22-18	.020
KP26358	Black	1/4	.250	.125	16-14	.025
KP26364	Blue	1/4	.250	.125	16-14	.025
KP26359	Black	5/16	.312	.156	12-10	.025
KP26365	Yellow	5/16	.312	.156	12-10	.025
KP26360	Black	3/8	.375	.187	10-8	.025
KP26361	Black	1/2	.500	.250	8-4	.025
KP26362	Black	3/4	.750	.375	2 1/0	.030

ALL UNIT QTY: 1

Thin Wall Low-Temp Heat Shrin Tubing



- Flexible, polyolefin black tubing
- Minimum shrink temperature of 194°F (+90°C) grea reduces installation time and the potential for damage components caused by high heat
- 2 to 1 shrinkage ratio
- Rated for continuous operation from -67°F to +275°F to +135°C)
- Meets MIL-1-23053/5 Class 1 & 3 specifications
- Meets UL and CSA specifications

Part No.	I.D. Min. Exp./ Max. Rec.	Nom. Size (In.)	AWG	Length (In.)
23615	.046/.023	3/64	30 - 28	6
¤23615-R	.046/.023	3/64	30 - 28	25ft.
23616	.063/.031	1/16	28 - 26	6
23616-R	.063/.031	1/16	28 - 26	25ft.
23617	.093/.046	3/32	24 - 22	6
23617-R	.093/.046	3/32	24 - 22	25ft.
23618	.125/.062	1/8	20 - 18	6
23618-R	.125/.062	1/8	20 - 18	25ft.
23619	.187/.093	3/16	16 - 14	6
23619-R	.187/.093	3/16	16 - 14	25ft.
23620	.250/.125	1/4	12 - 10	6
23620-R	.250/.125	1/4	12 - 10	25ft.
23621	.375/.187	3/8	8 - 6	6
23621-R	.375/.187	3/8	8 - 6	25ft.
23622	.500/.250	1/2	4 - 2	6
23622-R	.500/.250	1/2	4 - 2	25ft.
23623	.750/.375	3/4	1 - 3/0	6
23623-R	.750/.375	3/4	1 - 3/0	25ft.
23624	1.000/.500	1	3/0 - 4/0	6
23624-R	1.000/.500	1	3/0 - 4/0	25ft.
23625	1.500/.750	1 1/2	4/0 - 400MCM	6
¤23625-R	1.500/.750	1 1/2	4/0 - 400MCM	25ft.
23626	2.000/1.000	2	1.0″ - 1.8″ Dia	6
¤23626-R	2.000/1.000	2	1.0″ - 1.8″ Dia	25ft.
23627	3.000/1.500	3	1.5″ - 2.8″ Dia	6
¤23627-R	3.000/1.500	3	1.5″ - 2.8″ Dia	25ft.
23628	4.000/2.000	4	2.0″ - 3.8″ Dia	6
¤23628-R	4.000/2.000	4	2.0″ - 3.8″ Dia	25ft.

Melt 'N Seal Medium Wall Low-Temp Heat Shrink Tubing

Translucent with Adhesive Sealant



- A polyolefin multi wall heat shrink tubing that turns a c tinted color after heating (Tubing is marked with wire r
- Used in electrical and mechanical applications and provi resistance to the environment
- Meets NEC code for dry and damp location use

Operating Temp.	— .65° to 230°C
Min. Shrink Temp.	— 250°F
Shrink Ratio	— 2.5 to 1
Elongation	— 400%
Longitudunal	— +/-5%

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Wire-Automotive & Vehicle

Part No. 100 ft.	1000 ft.	Color	Unit
23469	—	White	1
23470	—	Red	1
23468	—	Black	1
23471	—	Green	1
23468-3	—	Brown	1
23468-2	—	Blue	1
23468-1	—	Yellow	1

Wire Gauge No. 8

- 65 strands of 26GA
- Nominal OD–

Part No. 100 ft.	500 ft.	1000 ft.	Color	Unit
KP83739	—	—	Black	1 Roll
KP83738	—	—	Red	1 Roll

Primary Wire

Plastic Insulated Wire

Single Conductor Wire



- 50 volts maximum
- Temperatures range: -20°C (-68°F) to +60°C (+140°F)
- Resists moisture, weather, heat, oil, abrasion and aging
- PVC (polyvinylchloride) insulation
- Stranded copper conductor
- Exceeds ATA standards
- Meets SAE J1128 Type GPT specs
- 100 ft. plastic spool/1000 ft. metal spool

Wire Gauge No. 18

- 16 strands of 30GA
- Nominal OD–.09

Part No. 100 ft.	1000 ft.	Color	Unit
23410	—	White	1
23411	—	Red	1
23411-2	—	Black	1
23412	—	Green	1
23413	—	Brown	1
23413-1	—	Blue	1
23414	—	Yellow	1

Wire Gauge No. 16

- 19 strands of 29GA
- Nominal OD–.105

Part No. 100 ft.	1000 ft.	Color	Unit
23425	23425-1	White	1
23426	23430	Red	1
23438	23438-1	Black	1
23427	23427-1	Green	1
23428	23428-1	Brown	1
23424	—	Blue	1
23429	—	Yellow	1
23430-1	—	Orange	1
KP74921	—		1
KP74920	—		1

Wire Gauge No. 14

- 19 strands of 27GA
- Nominal OD–.123

Part No. 100 ft.	1000 ft.	Color	Unit
23440	23440-1	White	1
23441	23445	Red	1
23439-1	23439-3	Black	1
23442	23442-1	Green	1
23443	KP70206	Brown	1
23439	23439-2	Blue	1
23444	23444-1	Yellow	1
23443-2	—	Orange	1
23446	—	Gray	1
KP74822	—	Orange	1
KP74922	—		
KP74923	—	Purple	1

Wire Gauge No. 12

- 19 strands of 25GA
- Nominal OD–.147

Part No. 100 ft.	1000 ft.	Color	Unit
23459	—	White	1
23460	—	Red	1
23459-1	—	Black	1
C11000	—	Green	1
C10999	—	Brown	1
C15198	—	Blue	1
C15199	—	Yellow	1

Wire Gauge No. 10

- 19 strands of 23GA
- Nominal OD–.183

Part No. 100 ft.	1000 ft.	Color	Unit
23467	—	White	1
23466	KP70198	Red	1
23467-1	—	Black	1
C401107	—	Blue	1
C15201	—	Yellow	1

Wire Gauge No. 8

- 65 strands of 26GA
- Nominal OD–.230

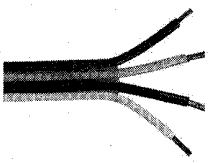
Part No. 100 ft.	1000 ft.	Color	Unit
23473	—	White	1
23472	—	Red	1
C84023	—	Black	1

NOTE: All units are (1 Roll)

Multi-Conductor Primary Wire

Bonded Parallel Primary Wire

2, 3, 4 or 6 Conductors



- 50 volts maximum
- Resistant to moisture, weather, heat, oil, abrasion and aging
- Stranded copper conductor
- PVC (polyvinylchloride) insulation
- Bonded together for ease in handling
- Meets ATA standards
- Meets SAE J1128 Type GPT specs
- .100 foot per roll

Part No.	Ga. Size/No. of Cond.	Color Code*	Strands No. x Ga.	Nom. O.D.	Unit
23489-1	16/2	BR/W	19 x 29	.102 x .205	1 Roll
23489-2	16/3	BR/Y/G	19 x 29	.102 x .300	1 Roll
23489-3	16/4	BR/W/Y/G	19 x 29	.102 x .408	1 Roll
23486	14/2	R/W	19 x 27	.123 x .250	1 Roll
23487	14/3	R/W/B	19 x 27	.123 x .369	1 Roll
23487-1	14/3	G/Y/BR	19 x 27	.123 x .369	1 Roll
23488	14/4	R/W/B/Y	19 x 27	.123 x .492	1 Roll
23488-5	14/4	Y/G/BR/W	19 x 27	.123 x .492	1 Roll
KP23392	16/3	B/W/G	19 x 29		1Roll

Jacketed Parallel Primary Wire

Two Conductor



- Insulated conductors covered with a heavy-duty jacket
- PVC (polyvinylchloride) insulating jacket
- Individual conductors have PVC insulation
- Recommended for trucks, buses, tractors, marine and general-purpose use
- Gray jacket color
- 100 foot per roll

Part No.	Ga. Size/No. of Cond.	Strands No. x Ga.	Color Code*	Nom. O.D.	Unit
KP23395	16/4		BK/W/G/R		1 Roll
23480	16/2	19 x 29	BK/W	.143 x .246	1 Roll
KP23396	14/4		BK/W/G/R		1 Roll
KP23393	14/3		BK/W/G		1 Roll
23482	14/2	19 x 27	BK/W	.163 x .286	1 Roll
KP23397	12/4		BK/W/G/R		1 Roll
KP23394	12/3		BK/W/G		1 Roll
23484	12/2	19 x 25	BK/W	.185 x .330	1 Roll
23481	10/2	19 x 23	BK/W	.218 x .396	1 Roll

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UV Black

Part No.	Bundle Dia. Range (In.)	Length (In.)	Width (In.)	Min. Loop Tensile Strength D (Lbs.)	Unit
C96024	1/16 — 13/4	7.5	.187	50	50
C24704	1/16 — 13/4	7.5	.187	50	100
18104-X	1/16 — 13/4	7.5	.187	50	1000
C96025	1/16 — 3	11.1	.187	50	50
C24705	1/4 — 3	11.1	.187	50	100
18105-X	1/16 — 3	11.1	.187	50	500
C96026	1/16 — 4	14.0	.187	50	25
C24706	1/16 — 4	14.0	.187	50	100
18106-X	1/16 — 4	14.1	.187	50	500



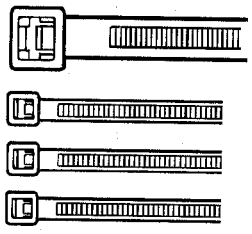
Natural

Part No.	Bundle Dia. Range (In.)	Length (In.)	Width (In.)	Min. Loop Tensile Strength D (Lbs.)	Unit
18107	3/16 — 2	8.0	.300	120	100
C27122	3/16 — 4	14.25	.300	120	10
C33572	3/16 — 4	14.25	.300	120	50
18108	3/16 — 4	14.25	.300	120	100
18111	3/16 — 9	28.0	.300	120	50
C27123	1/2 — 4	24.0	.300	175	10
C30323	1/2 — 4	24.0	.300	175	50
KP4832	1/2 - 8 3/4	29 3/4	.30	120	100
C422408	up to 9	36	.300	175	25

UV Black

Part No.	Bundle Dia. Range (In.)	Length (In.)	Width (In.)	Min. Loop Tensile Strength D (Lbs.)	Unit
18107-X	3/16 — 2	8.0	.300	120	100
KP4831	3/16-3	11 7/8	.30	120	100
C96027	3/16 — 4	14.25	.300	120	10
18108-X	3/16 — 4	14.25	.300	120	100
C24707	3/16 --4	14.25	.300	120	50
18111-X	3/16 — 9	28.0	.300	120	50
C24708	1/2 — 4	24.0	.300	175	50
C24709	—	36.0	.312	175	25
KP4877	2"	9.0	.500	250	10
KP65718	6"	23.0	.500	250	10
KP74738	9"	32.0	.350	170	25
KP4876	10"	35.0	.500	250	10

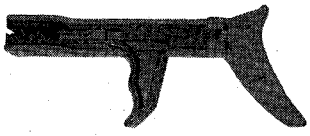
Colored Cable Ties



- Constructed of high strength nylon 6/6
- Self-extinguishing and heat resistant

Part No.	Wire Bundle Dia. (In.)	Tensile Strgth (Lbs.)	Width x Lgth. (In.)	Color	Unit
C29594	up to 3/4	18	3/32 x 4	Red	100
C29595	up to 3/4	18	3/32 x 4	Yellow	100
C29596	up to 3/4	18	3/32 x 4	Green	100
C29597	up to 3/4	18	3/32 x 4	Blue	100
KP4834	up to 3/4	18	3/32 x 4	Brown	100
KP4836	up to 3/4	18	3/32 x 4	Orange	100
KP4840	up to 3/4	18	3/32 x 4	Purple	100
KP4884	up to 3/4	18	3/32 x 4	Gray	100
KP4885	up to 3/4	18	3/32 x 4	White	100
C29598	up to 1 3/4	50	3/16 x 8	Red	100
C29599	up to 1 3/4	50	3/16 x 8	Yellow	100
C29600	up to 1 3/4	50	3/16 x 8	Green	100
C29601	up to 1 3/4	50	3/16 x 8	Blue	100
KP4841	up to 1 3/4	50	3/16 x 8	Brown	100
KP4843	up to 1 3/4	50	3/16 x 8	Orange	100
KP4846	up to 1 3/4	50	3/16 x 8	Purple	100
KP4886	up to 1 3/4	50	3/16 x 8	Gray	100
KP4887	up to 1 3/4	50	3/16 x 8	White	100
C29602	up to 3	50	3/16 x 11 3/4	Red	100
C29603	up to 3	50	3/16 x 11 3/4	Yellow	100
C29604	up to 3	50	3/16 x 11 3/4	Green	100
C29605	up to 3	50	3/16 x 11 3/4	Blue	100
C29606	up to 4	50	3/16 x 15 1/2	Red	100
C29607	up to 4	50	3/16 x 15 1/2	Yellow	100
C29608	up to 4	50	3/16 x 15 1/2	Green	100
C29609	up to 4	50	3/16 x 15 1/2	Blue	100

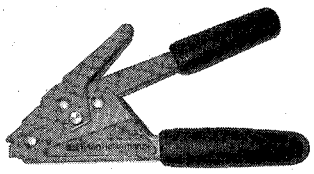
Standard Small Tie Tool



- Designed to tension and cut a cable tie flush
- With the tie inserted into the head, squeeze the trigger to tension, release trigger pressure slightly, twist 1/4 turn to cut
- For use with nylon ties 18 lbs. to 50 lbs.

Part No.	Description	Unit
KP77137	Small Tie Tool	1

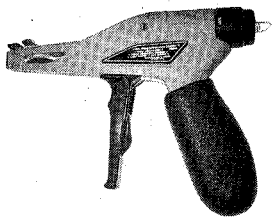
Standard Large Tie Tool



- Plier designed action provides a mechanical advantage when pulling larger lashing ties
- Insert tie into the head and squeeze the handle to tension; tool will cut the tie end flush
- For use with nylon ties 150 lbs. to 250 lbs.

Part No.	Description	Unit
KP4872	Standard Large	1

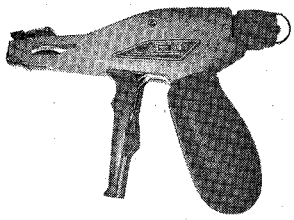
Heavy-Duty Mark 7 Tool



- Designed to tension and cut a cable tie flush
- Tool has a tensioning knob designed to automatically cut the tie when the bundle is fully secured
- Set tension knob, insert tie into the head and squeeze the trigger; the tool will automatically cut the tie
- For use with nylon ties 18 lbs. to 50 lbs.

Part No.	Description	Unit
KP4870	Heavy-Duty Mark 7 Tool	1

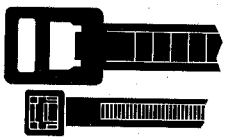
Heavy-Duty Mark 9 Tool



- Same feature and benefits as the Mark 7 Tool except for use with a wider range of ties
- Designed to tension and cut a cable tie flush
- Tool has a tensioning knob designed to automatically cut the tie when the bundle is fully secured
- Set tension knob, insert tie into the head and squeeze the trigger; the tool will automatically cut the tie
- For use with nylon ties 18 lbs. to 250 lbs.

Part No.	Description	Unit
KP4871	Heavy-Duty Mark 7 Tool	1

All Weather Cable Ties



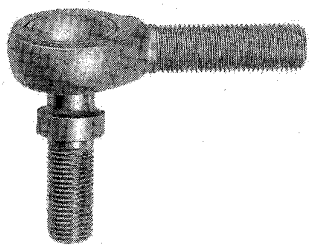
- Constructed of special black nylon
- Won't crack, dry out or split in sunlight or other harsh weather

Part No.	Wire Bundle Dia. (In.)	Tensile Strgth (Lbs.)	Width (In.)	Length (In.)	Unit
C24004	1/32 — 3/4	18	3/32	4	100
C24005	1/32 — 1 3/4	50	3/16	8	100
C422445	1/16 — 4	120	5/16	15 1/4	50
C24006	1/32 — 4	50	3/16	15 1/2	100
C24007	1 1/2 — 6	175	3/8	21	25

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Truck Fleet-Miscellaneous
Body Hardware-Truck Fleet

Male Rod End w/Stud



- All sizes supplied with standard right hand thread

Part No.	Size	Unit
KP66615	10-32	2
KP66616	¼-28	2
KP66617	5/16-24	2
KP66618	3/8-24	2
KP66620	½-20	2

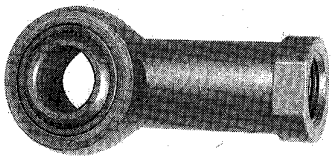
Studded Rod Ends



- Body – low carbon steel – cadmium or zinc plated – chromate treated
- Ball – carbon steel surface hardened
- Stud – carbon steel – plated

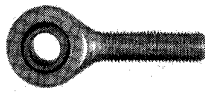
Part No.	Stud & Shank Thd. Class UNF-2	Unit
2439	10-32	5
2440	¼ -28	5
2441	5/16-24	5
2442	3/8 -24	5
2443	7/16-20	5
2444	½ -20	5
KP67143	5/8-16	1
KP67144	¾-16	1

Female Rod End



Part No.	Thread Size	Size	Unit
KP66660	10-32	.190	2
KP67147	5/8-18	.625	1
KP67148	¾-16	.750	1

Rod Ends



- Right hand thread – Male rod end
- Low carbon steel body
- Case-hardened steel ball
- Chromate treated

Part No.	Ball I.D.	Thread Size	Unit
2456	.2500	¼ -28	5
2457	.3125	5/16-24	5
2458	.3750	3/8 -24	5
KP67139	.437	7/16-20	2
2459	.5000	½ -20	5
KP67141	.625	5/8-18	1
KP67142	.750	¾-16	1

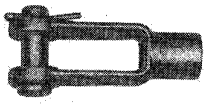
Rod Ends

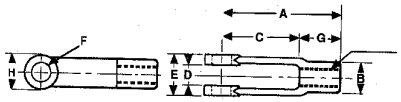


- Body – low carbon steel – zinc plated – chromate treated
- Ball – carbon steel surface hardened

Part No.	Thd. Class UNF-2B	Unit
2451	¼ -28	5
2452	5/16-24	5
2453	3/8 -24	5
C98744	7/16 -20	1
2455	½ -20	5

Clevis Assemblies





- Meets SAE standards
- Unichrome plated
- For brake rods
- Includes steel clevis pin and cotter pin

Part No.	Thread Size	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)
C674100*	10-32	1 5/16	5/16	1	3/16	7/16
2023	¼-28	2	7/16	1 1/4	9/32	5/8
2032	5/16-24	2 1/4	½	1 7/16	11/32	¾
2025	3/8-24	2 ½	5/8	1 5/8	7/16	7/8
2026	7/16-20	2 7/8	23/32	1 7/8	½	1
2027	½-20	3	13/16	1 7/8	9/16	1 1/8
2027-1	½-20	3	13/16	1 7/8	9/16	1 1/8
2468†	5/8-18	2 5/16	1 1/8	1 1/2	9/16	1 1/2
2467	5/8-18	1 7/8	7/8	3/8	9/16	1 1/4
C8860744	5/8-18	1 1/4	-	-	-	½
KP9768	5/8-18	5 ½	-	-	-	-
331595	5/8-18	2 5/16	-	-	9/16	-

Part No.	F (In.)	G (In.)	H (In.)	Replacement Clevis Pin	Unit
C674100	3/16	9/16	3/8		3
2023	¼	¾	½	2120	10
2032	5/16	13/16	19/32	2121	10
2025	3/8	7/8	1 1/16	2122	10
2026	7/16	1	1 3/16	2123	10
2027	½	1 1/8	1 5/16	2124	10
2027-1	½	1 1/8	1 5/16	2124	1
2468†	½	23/32	1 7/32	2472	1
2467	½	7/16	31/32	2476	5
C8860744	-	-	-	*	1
KP9768	5/8	-	-	9774	25
331595	5/8	-	-	-	1

* Yoke end only
*3/16" diameter x 9/16" pin available with clevis only
† Not SAE standard

Mud Flap Mounting Kit

Mud Flap Mounting Kit

- Individually packaged in polybag
- Zinc-clear plating for rust free application
- Grade 5 bolts for maximum strength
- Nylon lock nuts for maximum vibration resistance
- Hardened heavy duty flat washers for maximum strength
- Kit contains:

4 - 5/16 x 1-3/4 fully threaded Grade 5 bolts
4 - 5/16 nylon lock nuts
8 - Heavy duty flat washers

Part No.	Description	Unit
C21756	Mud Flap Intallation Kit	25
C21791	Mud Flap Intallation Kit	50

Hood Latches-Hardware

Flexible Hood Latch



- Black rubber neoprene handle
- 6 15/16" pin to mounting hole
- 7 15/16" OAL
- Replaces Mack No. 61RU 19302
- For holding pin use Part No. 30208 cap screw and Part No. 34283 elastic nut
- Use with Part No. 2491-1 hood hook and Part No. 2494 bracket

Part No.	Application	Unit
2491	Mack truck hoods	1

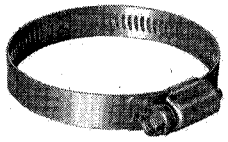
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Hose Clamps

Standard Worm Gear Clamps

Designed for Standard Applications



- Meets or exceeds SAE J1508 hose clamp standards
- Stainless steel bank, ½" wide
- Stainless steel, screw housing
- Steel slotted hex head screw w/cadmium plating
- Precision ground slots

Part No.	Mfg. No.	Effective Range Min.	Effective Range Max.	Unit
24108*	4	¼ (6mm)	⅝ (16mm)	10
C9023*	6	5⁄16	⅞	10
24110*	6	7⁄16 (11mm)	25⁄32 (20mm)	10
24109	6	7⁄16 (11mm)	25⁄32 (20mm)	25
24107	8	½ (13 mm)	29⁄32 (23mm)	10
24111*	8	½ (13 mm)	29⁄32 (23mm)	10
24112	10	9⁄16 (14 mm)	1 1⁄16 (27mm)	10
24113	12	11⁄16 (17mm)	1¼ (31mm)	10
24114	16	13⁄16 (21mm)	1½ (38 mm)	10
24115	20	13⁄16 (21mm)	1¾ (44mm)	10
24116	24	1 1⁄16 (27mm)	2 (50mm)	10
24117	28	1 5⁄16 (33mm)	2¼ (56mm)	10
24118	32	1 9⁄16 (39mm)	2½ (63mm)	10
24119	36	1 13⁄16 (46 mm)	2¾ (69mm)	10
24120	40	2 1⁄16 (52mm)	3 (75mm)	10
24121	44	2 5⁄16 (56mm)	3¼ (81mm)	10
24122	48	2 9⁄16 (64mm)	3½ (88mm)	10
24123	52	2 13⁄16 (71 mm)	3¾ (95mm)	10
24124	56	3 1⁄16 (77mm)	4 (100mm)	10
24125	60	3 5⁄16 (81mm)	4¼ (106mm)	10
24127	64	3 9⁄16 (89mm)	4½ (113mm)	10
24127-1	72	4 1⁄16 (102mm)	5 (125mm)	10
24127-3	80	4⅝ (118mm)	5½ (140mm)	10
24127-6	88	5⅛ (128mm)	6 (150mm)	10
24127-7	96	5 9⁄16 (141mm)	6½ (165mm)	10
24127-8	104	6 3⁄16 (156mm)	7 (175mm)	10

* Micro/Mini style clamp — lighter construction

All Stainless Steel Worm Gear Clamps

Designed for Applications where Corrosion is a Concern



- Meets SAE J1508 hose clamp standards
- Stainless steel bank, ½" wide
- Stainless steel, screw housing
- 400 series stainless steel slotted hex head screw — magnetic
- Precision ground slots

Part No.	Mfg. No.	Effective Range Min.	Effective Range Max.	Unit
24128*	4	¼ (6mm)	⅝ (16mm)	10
KP79950	6	7⁄16 (11mm)	25⁄32 (20mm)	10
24135	8	½ (13 mm)	29⁄32 (23mm)	10
KP79951	10	9⁄16(14mm)	1 1⁄16 (27mm)	10
KP79952	12	11⁄16(17mm)	1¼(31mm)	10
KP79953	16	13⁄16 (21MM)	201⁄4 (56MM)	10
KP79954	20	13⁄16(21mm)	1¾(44mm)	10
KP82799	24	1 1⁄16(27mm)	2(50mm)	10
KP79955	28	13⁄16(21mm)	2¼(56mm)	10
KP79957	40	2 1⁄16(52mm)	3(75mm)	10
KP79956	32	1 9⁄16(39mm)	2½(63mm)	10
24138	36	1 13⁄16 (46 mm)	2¾ (69mm)	10
24138-1	44	2 5⁄16 (59mm)	3¼ (83mm)	10
KP79958	48	2 9⁄16(65mm)	3½(89mm)	10
24139-1	52	2 13⁄16 (71 mm)	3¾ (95mm)	10
24140	56	3 1⁄16 (78mm)	4 (102mm)	10
24140-1	60	3 5⁄16 (84mm)	4¼ (108mm)	10
24141	64	3 9⁄16 (91mm)	4½ (114mm)	10
24141-1	72	4 1⁄16 (102mm)	5 (125mm)	10
24142	80	4⅝ (118mm)	5½ (140mm)	10
24142-1	88	5⅛ (128mm)	6 (150mm)	10
24143	96	5 9⁄16 (141mm)	6½ (165mm)	10
24143-1	104	6 3⁄16 (156mm)	7 (175mm)	10

* Micro/Mini style clamp — lighter construction

All Stainless Steel/High Torque Worm Gear Clamps

Designed for Applications Where Corrosion & High Pressure Are a Concern



- Stainless steel band
- Stainless steel, screw housing
- Stainless steel slotted hex had screw
- Extra high screw head — permits tightening with open end or socket wrenches
- Extra long screw length — allows eight screw threads to be engaged at once; for high torque drive and vibration resistance
- Precision ground slots

Part No.	Effective Range Min.	Effective Range Max.	Unit
24101	1¾ (45mm)	2⅝ (66mm)	10
24102	2¼ (57mm)	3⅛ (80mm)	10
24103	2¾ (70mm)	3⅝ (92mm)	10
24104	3¼ (83mm)	4⅛ (107mm)	10
KP61027	4" (101.6mm)	6⅛ (155.57mm)	10
24105	4¼ (108mm)	5⅛ (130mm)	10
24106	5¼ (133mm)	6⅛ (155mm)	10

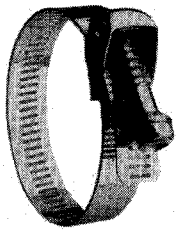
Stainless Steel Micro Clamps



- 5/16" width band

Part No.	Ind. No.	Clamp ID (In.)	Hose ID (In.)	Unit
C501254	#4	7⁄32-5⁄8	3⁄16-5⁄16	20
C501256	#6	5⁄16-7⁄8	¼-3⁄8	20
¤KP79907	#10	½-1 1⁄16	3⁄8 - 5⁄8	10
¤KP79908	#12	9⁄16-1¼	5⁄8 - ¾	10
¤KP79909	#16	11⁄16-1½	¾-1	10
¤KP79910	#20	¾-1¾	1- 1¼	10

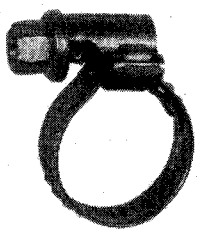
Quick Release Clamps



- 300 Series stainless steel band and housing
- 400 Series stainless steel bridge and screw
- Quickly opens and closes - ideal for use in "closed" systems where the clamp must be opened to be applied
- Markets include pollution control, air filtration, communications, ship building, data processing, signs and displays

Part No.	Clamp Diameter Min.	Clamp Diameter Max.	Size #	Unit
24085	1	4	56	10
24087	2 1⁄16	6	88	10
24088	1¾	7	104	10
24089	1¾	8 9⁄16	128	10
24091	2 1⁄16	12 5⁄16	188	10

Norma Thin Band Worm Gear Hose Clamps



- Band and housing in stainless steel (1.4016) and zinc-plated yellow chromate mild steel screw
- Slotted phillips screw does not strip when tightening
- 6mm hex nuts
- Designed for foreign and domestic cars and close tolerance applications
- Conforms to DIN 3017 Part 1 specifications (C6 W2)
- Norma is a brand name for a large range of industrial, automotive, and domestic clamping retaining and connecting products manufactured in Germany

GRAYSON INDUSTRIES, INC.

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Fittings - Pipe

Countersunk Plug



Part No.	Pipe Thd. (In.)	Unit
C536140	⅛	25
C536142	¼	25
C536144	⅜	25
C536146	½	25
C536148	¾	25

Magnetic Steel Pipe Plugs

Magnetic Steel Pipe Plugs attract and retain internal debris to extend engine life. For use wherever there are moving parts in fluid. Available in square recessed and square head types.



Part No.	Description	Pipe Thd. (In.)	Unit
C552522	Square Head	½	5
C552530	Square Recessed	½	5
-	-	¾	-
C552524	Square Head	¾	5

Bushings



Part No.	Pipe Thd. (In.)	Pipe Thd. (In.)	Unit
16013	¼	⅛	4
16014	⅜	⅛	4
16015	⅜	¼	4
16016	½	⅛	4
16017	½	¼	4
16018	½	⅜	4
16019	¾	¼	2
16020	¾	⅜	2
16021	¾	½	2
16022	1	⅜	2
16023	1	½	2
16024	1	¾	2
16025	1¼	¾	2
16026	1¼	1	2

Adapter

SAE No. 140139



Part No.	Male Pipe Size (In.)	Female Pipe Size (In.)	Unit
C99774	¼	½	2
C99775	⅜	½	2
C99779	¾	1	1

Couplings



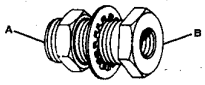
Part No.	Pipe Thd. (In.)	Unit
16039	⅛	4
16040	¼	4
16041	⅜	4
16042	½	4
16043	¾	2
16044	1	2

Hex Nipple



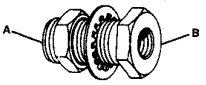
Part No.	Male Pipe Thread (In.)		Unit
16000	⅛	⅛	4
16001	¼	⅛	4
16002	¼	¼	4
16004	⅜	⅛	4
16003	⅜	¼	4
16005	⅜	⅜	4
16007	½	¼	4
16006	½	⅜	4
16008	½	½	4
16009	¾	½	2
16010	¾	¾	2
16011	1	1	2
16012	1¼	1¼	2

(Steel) Bulkhead Coupling



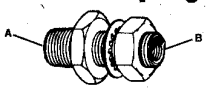
Part No.	Ind. Dash No.	Female Pipe A (In.)	Female Pipe B (In.)	Length (In.)	Unit
¤W05465	4-4	¼	¼	1½	10
¤W-21204-	4-4	¼	¼	1 5/16	5
W17709	6-6	⅜	⅜	1 5/16	2

(Steel) Bulkhead Coupling



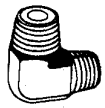
Part No.	Ind. Dash No.	Male Pipe A (In.)	Female Pipe B (In.)	Length (In.)	Unit
¤W05498	8-4	½	¼	2 9/32	5
¤W-05499-	8-4	½	¼	2 17/32	5

(Steel) Bulkhead Coupling



Part No.	Ind. Dash No.	Male Pipe A (In.)	Female Pipe B (In.)	Length (In.)	Unit
¤W05730	8-4	½	¼	2 15/16	10
¤W-23464-	8-4	½	¼	3 15/16	5

90° Male Elbow



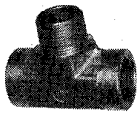
Part No.	Pipe Thd. (In.)	Unit
16058	⅛	4
16059	¼	4
16060	⅜	4
16061	½	4
16062	¾	2
16063	1	2

90° Female Elbow



Part No.	Pipe Thd. (In.)	Unit
16069	⅛	4
16070	¼	4
16071	⅜	4
16072	½	4
16073	¾	2
16074	1	2
16075	1¼	2

Male Branch Tee



Part No.	Pipe Thd. (In.)	Unit
KP79155	⅛	5
KP79156	¼	5
KP79157	⅜	3
KP79158	½	3
KP79159	¾	2
KP79160	1	2

45° Female Elbow



Part No.	Pipe Thd. (In.)	Unit
16064	¼	4
16065	⅜	4
16066	½	4
16067	¾	2
16068	1	2

45° Street Elbow



Part No.	Pipe Thd. (In.)	Unit
16045	⅛	4
16046	¼	4
16047	⅜	4
16048	½	4
16049	¾	2
16050	1	2

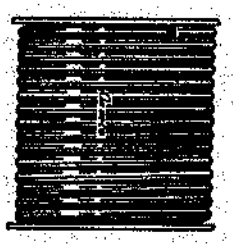
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Wire - General Purpose

PRIMARY WIRE

General Purpose



Standard PVC Insulation (SE/GPT Type)
Suitable for Most Automotive Applications
Free Stripping, Abrasion Resistant
Meets Most O.E.M. Vehicle Standards

UNIT PACKAGE: 1 Roll



The lower the gauge number, the thicker the wire (i.e. 10 gauge is thicker than 16 gauge)

Gauge	Stranding	O.D.	Auveco Part No				
			Red	White	Black	Blue	Length
18	16 x 30	.092	. . . .	. . . .	20488	20489	45 Ft.
16	19 x 29	.104	20490	20491	20492	20493	35 Ft.
12	19 x 25	.142	20494	20495	20496	20497	15 Ft.
10	19 x 23	.175	. . . .	20499	. . . .	20501	10 Ft.

25 Foot Spool

Gauge	Stranding	O.D.	Auveco Part No					
			Red	White	Black	Blue	Green	Yellow
18	16 x 30	.092	12411	12412	. . . .	. . . .	. . . .	15234
16	19 x 29	.104	. . . .	. . . .	12417	. . . .	. . . .	. . . .
14	19 x 27	.117	12419	12420	12421	12422	15239	15240
12	19 x 25	.142	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
10	19 x 23	.175	15249	. . . .	15251	. . . .	. . . .	. . . .

100 Foot Spool

Gauge	Stranding	O.D.	Auveco Part No						
			Red	White	Black	Blue	Green	Yellow	Brown
18	16 x 30	.092	12423	12424	12425	12426	12427	12428	15256
16	19 x 29	.104	12429	12430	12431	12432	12433	12434	15257
14	19 x 27	.117	12435	12436	12437	. . . .	12439	12440	15258
12	19 x 25	.142	12441	12442	12443	12444	15259	15260	. . . .
10	19 x 23	.175	12445	. . . .	12447	12448	. . . .	15263	. . . .

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Wire Rope Accessories

Wire Rope Thimbles



Protect wire rope connections with our reinforcing heavy Wire Rope Thimbles. Thimble size corresponds to the size of the wire rope to be used.

- Made of hot rolled, mild steel
- Closed type
- Galvanized

Part No.	Rope Dia. (In.)	Unit
C4390	1/8	10
C4391	3/16	10
C81133	1/4	10
C94192	5/16	10
C81134	3/8	10
C81135	1/2	5
C81136	5/8	5
C81137	3/4	5

Cable Ferrules



- Used to crimp wire rope
- Made of aluminum

Part No.	Size (In.)	Unit
C94546	1/16	50
C94547	3/32	50
C94548	1/8	50
C94549	5/32	50
C94550	3/16	25
C94551	1/4	25

Crosby® Wire Rope Thimbles

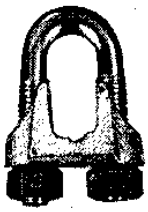


- Recommended for light-duty service
- Hot dip galvanized steel

Part No.	Rope Dia. (In.)	Weight per 100 (Lbs.)	Unit
✦50440	1/8	3.50	10
✦50441	3/16	3.50	10
✦50442	1/4	3.50	10
✦50443	5/16	4.00	10
✦50444	3/8	6.70	10
✦50445	1/2	12.50	5
✦50446	5/8	34.50	5
✦50447	3/4	47.10	5
✦50448	7/8	84.60	5
✦50449	1	97.50	5
✦50450	1 1/8 - 1 1/4	175.00	2

Crosby® is a registered trademark of The Crosby Group, Inc.
✦Part numbers available in Canada only

Malleable Wire Rope Clips



- Malleable iron saddle U-bolt
- Electro-galvanized
- Use with No. 2919-2921 Wire Rope
- Meets Federal specification FF-C-450-D, Type 1, Class 2
- Includes nuts
- **Note: wire rope clips are not designed for load carrying purposes**

Part No.	Size (In.)	Min. OAL (In.)	Threaded Dia. (In.)	Min. Weight/en. (Lbs.)	Unit
32665-2	1/8	.719	10-24	.04	25
32665-1	5/16	.875	10-24	.06	25
32665	1/4	1.188	5/16-18	.13	25
32666	5/16	1.188	5/16-18	.15	15
32667	3/8	1.563	3/8-16	.21	15
32668	1/2	2.000	7/16-14	.37	15
32669	5/8	2.313	1/2-13	.59	15
32670	3/4	2.563	9/16-12	.83	10

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Bowma-Crimp® Nylon Insulated Terminals

Funnel Entry
Heavy Duty — Nylon Insulated — Solderless Terminals



- Constructed of pure electrolytic tough pitch (ETP) high grade copper, for maximum conductivity Per QQ-C576B
- Electro-tin plated for maximum corrosion resistance and shelf life Per MIL-T-10727B
- Wire range clearly stamped on backside of each terminal for positive identification
- Terminal barrel is serrated with multiple "V" grooves for maximum contact & holding power after crimp
- Translucent nylon insulation gives the crimper a clean view of the crimp area and is color coded for easy wire size identification
- "Funnel Entry" design actually gathers wire strands together for fast, easy, positive entry into terminal barrel. This eliminates wire strand hang-up and positions wire perfectly for a more positive crimp
- Constructed with open end to allow visual inspection of wire location before and after crimp
- Constructed in one, burr-free piece for maximum strength
- Full ¼" barrel
- Electrical crimp area
- Mechanical or insulation crimp area
- A seamless copper alloy insulation support sleeve provides added strength and transfers stress points gradually to wire jacket for maximum vibration resistance

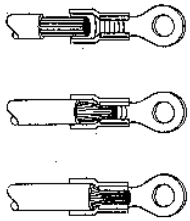
Specifications

Temperature Range

-67°F (-55°C) to +221°F (105°C)

600-Volt Rated

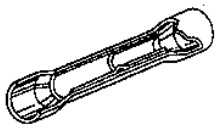
Quality Funnel Entry Terminal Construction



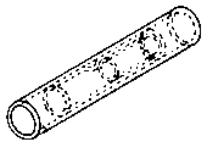
- All copper used in the production of Barnes terminals is certified to government specification No. QQ-C-6576. Electrolytic tough pitch (ETP) copper
- The plating used on Barnes terminals is certified to government specification No. MIL-T-10727B
- Insulation: PVC: Polyvinylchloride - Ethyl Corp. 7042
- Nylon: E.I. DuPont Zytel No. 101 (molded parts). Custom resins Spencer 607
- Color coding:
  26-22 AWG - Yellow
  22-16 AWG - Red
  20-16 AWG - Green
  16-14 AWG - Blue
  16-12 AWG - Yellow (Black Stripe)
  12-10 AWG - Yellow
  8 AWG - Red
  6 AWG - Blue
  4 AWG - Yellow
  2 AWG - Red

Barnes is noted for its quality by the many approvals and listings of its terminal line. The Barnes line conforms to the following specifications: MS-25036, MS-20659, MIL-T-10727B, MIL-T-7928/ID also QQ-C-576B. Our terminal line is U.L. and C.S.A. listed where applicable.

Mini Bowma-Crimp® Nylon-Insulated Butt Connectors

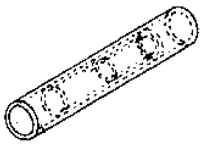


- Insulation grip firmly grips wire insulation to protect against high vibration failures
- Funnel entry



Part No.	Wire Size	Ins. Color	Unit
22992	26-22	Yellow	50

Bowma-Crimp® Nylon-Insulated Butt Connectors



- Insulation overhang provides support to wire
- Nylon insulation



Part No.	Wire Size	Ins. Color	Unit
23014	22-18	Red	50
23014-1	22-18	Red	100

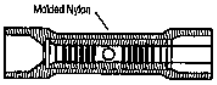


Part No.	Wire Size	Ins. Color	Unit
23035	16-14	Blue	50
23035-1	16-14	Blue	100



Part No.	Wire Size	Ins. Color	Unit
23075	12-10	Yellow	50
23075-1	12-10	Yellow	100

Bowma-Crimp® Nylon-Insulated, Molded Flare Butt Connectors



- Insulator has molded flare to allow for the entry of heavier wire insulation



Part No.	Wire Size	Ins. Color	Unit
23014-F	22-18	Red	50



Part No.	Wire Size	Ins. Color	Unit
23035-F	16-14	Blue	50



Part No.	Wire Size	Ins. Color	Unit
23075-F	12-10	Yellow	50

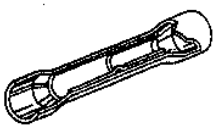
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Terminals

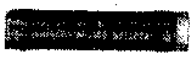
Bowma-Crimp® Nylon-Insulated, Heavy-Duty Butt Connectors



- Insulation grip firmly grips wire insulation to protect against high vibration failures
- With Funnel entry



Part No.	Wire Size	Ins. Color	Unit
18563	22-18	Red	50



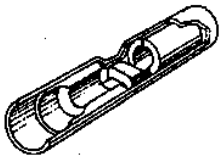
Part No.	Wire Size	Ins. Color	Unit
18564	16-14	Blue	50



Part No.	Wire Size	Ins. Color	Unit
18565	12-10	Yellow	50

NOTE: Alternate quantities available, see price book.

Bowma-Crimp® Nylon-Insulated Window Butt Connectors



- Funnel entry
- Meets MIL specifications MIL-T-7928/3
- See-through nylon insulation allows you to see the wires in the inspection window



Part No.	Wire Size	Ins. Color	Unit
23014-W	22-18	Red	25

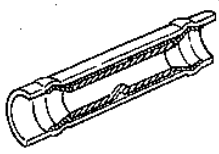


Part No.	Wire Size	Ins. Color	Unit
23035-W	16-14	Blue	25



Part No.	Wire Size	Ins. Color	Unit
23075-W	12-10	Yellow	25

Bowma-Crimp® Nylon-Insulated Jelly Butt Connectors



- Filled with special moisture resistant silicone gel that protects the connection from corrosion-causing elements
- Nylon insulation
- Funnel entry
- Insulation grip



Part No.	Wire Size	Ins. Color	Unit
18596	22-18	Red	25



Part No.	Wire Size	Ins. Color	Unit
18597	16-14	Blue	25



Part No.	Wire Size	Ins. Color	Unit
18598	12-10	Yellow	25

Bowma-Crimp Special Butt Connector



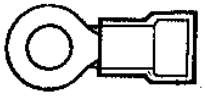
Part No.	Wire Size	Ins. Color	Unit
C410940	16-12	Yellow	50

Parallel Connector



Part No.	Wire Size	Ins. Color	Unit
C410261	16-14	Blue	50

Bowma-Crimp® Nylon-Insulated Ring Tongues



- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP79915	26-24	No. 2	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP79916	26-24	No. 4	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP79917	26-24	No. 6	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP79918	26-24	No. 8	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP79919	26-24	No. 10	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23000	22-18	4-6	Red	50
MP23000	22-18	4-6	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23001	22-18	4-6	Red	50
MP23001	22-18	4-6	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C81300	22-18	5-6	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23002	22-18	6-8	Red	50
MP23002	22-18	6-8	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23003	22-18	8-10	Red	50
MP23003	22-18	8-10	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23004	22-18	¼	Red	50
MP23004	22-18	¼	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C410107	22-18	⅜	Red	50

Continued on next page

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Continued from previous page



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23020	16-14	4-6	Blue	50
MP23020	16-14	4-6	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23021	16-14	4-6	Blue	50
MP23021	16-14	4-6	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23022	16-14	6-8	Blue	50
MP23022	16-14	6-8	Blue	25



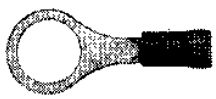
Part No.	Wire Size	Stud Size	Ins. Color	Unit
23023	16-14	8-10	Blue	50
MP23023	16-14	8-10	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23024	16-14	¼	Blue	50
MP23024	16-14	¼	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23025	16-14	¼-5/16	Blue	50
MP23025	16-14	¼-5/16	Blue	25



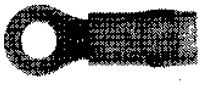
Part No.	Wire Size	Stud Size	Ins. Color	Unit
23026	16-14	5/16-⅜	Blue	50
MP23026	16-14	5/16-⅜	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C83072	16-14	5/16-⅜	Blue	50



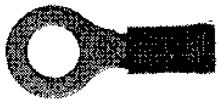
Part No.	Wire Size	Stud Size	Ins. Color	Unit
23060	12-10	6-8	Yellow	50
MP23060	12-10	6-8	Yellow	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23061	12-10	8-10	Yellow	50
MP23061	12-10	8-10	Yellow	25



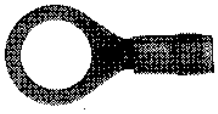
Part No.	Wire Size	Stud Size	Ins. Color	Unit
23062	12-10	¼	Yellow	50
MP23062	12-10	¼	Yellow	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23064	12-10	¼-5/16	Yellow	50
MP23064	12-10	¼-5/16	Yellow	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23065	12-10	5/16-⅜	Yellow	50
MP23065	12-10	5/16-⅜	Yellow	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23067	12-10	7/16-½	Yellow	50
MP23067	12-10	7/16-½	Yellow	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP70435	#8	5/16	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP70440	#6	5/16	Blue	25

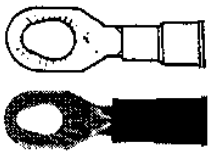


Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP70445	#4	5/16	Yellow	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP70447	#4	½	Yellow	25

Bowma-Crimp® Nylon-Insulated Multi-Stud Ring Tongues



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22980	22-18	2-4-6	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22981	22-18	6-8-10	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22982	16-14	6-8-10	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22983	12-10	6-8-10	Yellow	50

Bowma-Crimp® Nylon-Insulated Spade Tongues



- Funnel Entry
- Insulation Grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP79925	26-24	4	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP79926	26-24	6	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23007	22-18	4-6	Red	50
MP23007	22-18	4-6	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23009	22-18	8-10	Red	50
MP23009	22-18	8-10	Red	25

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Terminals

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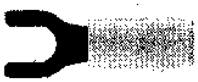
Part No.	Wire Size	Stud Size	Ins. Color	Unit
23027	16-14	4-6	Blue	50
MP23027	16-14	4-6	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23028	16-14	6-8	Blue	50
MP23028	16-14	6-8	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23029	16-14	8-10	Blue	50
MP23029	16-14	8-10	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C83089	16-12	10	Yellow	50
C410420	16-12	4-6	Yellow	50
C85004	12-10	4-6	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23069	12-10	8-10	Yellow	50
MP23069	12-10	8-10	Yellow	25

Bowma-Crimp® Nylon-Insulated Block Spade Tongues



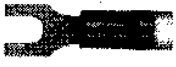
- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23007-B	22-18	4-6	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23009-B	22-18	8-10	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23027-B	16-14	4-6	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23028-B	16-14	6-8	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23029-B	16-14	8-10	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23069-B	12-10	8-10	Yellow	50

Bowma-Crimp® Nylon-Insulated Flanged Block Spade Tongues



- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23010	22-18	4-6	Red	50
MP23010	22-18	4-6	Red	25

Flanged Forks



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C83075	12-10	4-6	Yellow	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C410328	12-10	12	Yellow	50

Bowma-Crimp® Terminals



- Nylon insulation
- Brass insultion gripping sleeve
- ¼ barrel
- Copper material
- Tin plated

Part No.	Wire Size	Stud Size	Ins. Color	Unit
23010-1	22-18	8	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23011	22-18	8-10	Red	50
MP23011	22-18	8-10	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23030	16-14	4-6	Blue	50
MP23030	16-14	4-6	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23031	16-14	8-10	Blue	50
MP23031	16-14	8-10	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23071	12-10	8-10	Yellow	50
MP23071	12-10	8-10	Yellow	25

Bowma-Crimp® Nylon-Insulated Snap Spade Tongues



- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C85521	22-18	4	Red	50



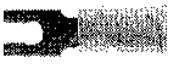
Part No.	Wire Size	Stud Size	Ins. Color	Unit
23176	22-18	6	Red	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23177	22-18	8	Red	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23178	22-18	10	Red	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C85525	16-14	4	Blue	50

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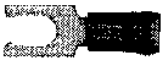
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Part No.	Wire Size	Stud Size	Ins. Color	Unit
23179	16-14	6	Blue	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23180	16-14	8	Blue	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23181	16-14	10	Blue	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23182	12-10	6	Yellow	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23183	12-10	8	Yellow	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23184	12-10	10	Yellow	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23185	12-10	¼	Yellow	100

Bowma-Crimp® Nylon-Insulated Short Snap Spade Tongues



- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23176-S	22-18	6	Red	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23177-S	22-18	8	Red	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23178-S	22-18	10	Red	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23179-S	16-14	6	Blue	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23180-S	16-14	8	Blue	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23181-S	16-14	10	Blue	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23182-S	12-10	6	Yellow	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23183-S	12-10	8	Yellow	100



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23184-S	12-10	10	Yellow	100

Bowma-Crimp® Nylon-Insulated Knife Disconnect



Part No.	Wire Size	Stud Size	Ins. Color	Unit
KP70159	16-14	.078	Blue	100

Bowma-Crimp® Nylon-Insulated Hook Tongues



- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23012	22-18	4-6	Red	50
MP23012	22-18	4-6	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23013	22-18	8-10	Red	50
MP23013	22-18	8-10	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23032	16-14	4-6	Blue	50
MP23032	16-14	4-6	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23033	16-14	8-10	Blue	50
MP23033	16-14	8-10	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23073	12-10	8-10	Yellow	50
MP23073	12-10	8-10	Yellow	25

Quick Disconnect Male Push-Ons

- Nylon insulation
- Funnel entry
- Insulation grip
- Mates with female push-ons and fully insulated female push-ons
- Provides quick and easy disconnection of wires



Part No.	Wire Size	Tab Size	Ins. Color	Unit
C410144	22-18	.125	Red	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23080	22-18	.187	.020	Red	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23081	22-18	.250	.032	Red	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23095	16-14	.187	.020	Blue	50

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Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23098	16-14	.250	.032	Blue	50
MP23098	16-14	.250	.032	Blue	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23077-1	12-10	.250	.032	Yellow	25

Bowma-Crimp® Nylon-Insulated Female Push-On Quick Disconnects



- Mates with male push-ons or male tabs found on equipment and switches
- Provides quick and easy disconnection of wires
- Funnel entry
- Insulation grip



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
18576*	26-22	.110	.020	Yellow	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23088*	22-18	.110	.020	Red	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23089*	16-14	.110	.020	Blue	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23090	22-18	.187	.020	Red	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23091	16-14	.187	.020	Blue	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23092	22-18	.250	.032	Red	50



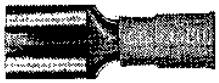
Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23097	16-14	.250	.032	Blue	50
MP23097	16-14	.250	.032	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C85006	14-12	.250	Yellow	50



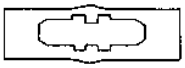
Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23077	12-10	.250	.032	Yellow	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23320-1*	12-10	.375	.032	Yellow	25

* No mating male push-on quick disconnects

Fully Insulated Double Male Push-On Receptacle



- Clear insulation allows easy inspection
- Nylon insulation



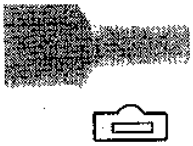
Part No.	Tab Size	Ins. Color	Unit
23361‡	.250	Clear	25

‡No funnel entry, no insulation grip
Mates with any non-insulated female push-on with .250 Tab Size

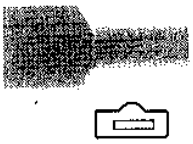
Bowma-Crimp® Fully Insulated Nylon Quick Disconnects

- A male and a female push-on encased in nylon; when connected, forms a fully insulated assembly
- Eliminates post-insulation
- Helps prevent shorting or flash-over when disconnected with power on
- Mating male and female available in four popular wire sizes
- The female housing fits entirely inside the male to form a fully insulated in-line splice
- Nylon insulation
- Funnel entry

Male Disconnect One Hump



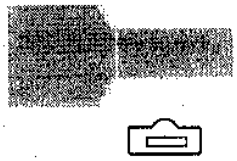
Part No.	Wire Size	Stud Size	Ins. Color	Unit
C97166	22-18	.250	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C99985	22-18	.187	Red	50

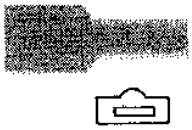


Part No.	Wire Size	Stud Size	Ins. Color	Unit
C99987	16-14	.187	Blue	50

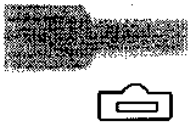


Part No.	Wire Size	Stud Size	Ins. Color	Unit
C97168	16-14	.250	Blue	50

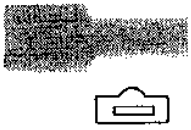
Female Disconnects One Hump



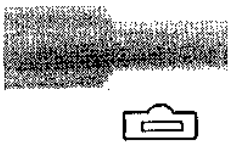
Part No.	Wire Size	Stud Size	Ins. Color	Unit
C97165	22-18	.250	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C99986	22-18	.187	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C99988	16-14	.187	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C97167	16-14	.250	Blue	50
C97169	12-10	.250	Yellow	50

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Bowma-Crimp® Fully Insulated Nylon Male Push-On Quick Disconnect, Two-Piece



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23084	22-18	.250	.032	Red	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23083	16-14	.187	.016	Blue	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23086	16-14	.250	.032	Blue	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23087-1	12-10	.250	.032	Yellow	25

Bowma-Crimp® Fully Insulated Nylon Female Push-On Quick Disconnects, Two-Piece



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
18575*	26-22	.110	.020	Yellow	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
22991*	26-22	.110	.020	Yellow	50



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23085	22-18	.250	.032	Red	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23083-1	16-14	.187	.016	Blue	25



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23087	16-14	.250	.016	Blue	25

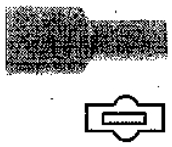


Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
23087-2	12-10	.250	.032	Yellow	25

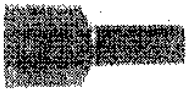
* No mating male available; female used with switch and control tabs

Bowma-Crimp® Fully Insulated Nylon Three-Piece Male & Female Quick Disconnects with Insulation Grip Sleeve

Male Disconnects Fully Insulated Two Hump



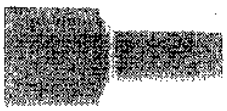
Part No.	Wire Size	Stud Size	Ins. Color	Unit
C95221	22-18	.187	Red	20



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C87673	22-18	.250	Red	20



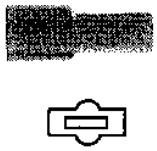
Part No.	Wire Size	Stud Size	Ins. Color	Unit
C414224	16-14	.187	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C85866	16-14	.250	Blue	50

Part No.	Wire Size	Stud Size	Ins. Color	Unit
C87672	12-10	.250	Yellow	50

Female Disconnects Fully Insulated Two Hump



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C95220	22-18	.187	Red	20



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C87674	22-18	.250	Red	50



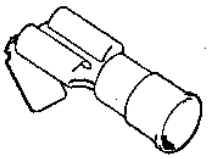
Part No.	Wire Size	Stud Size	Ins. Color	Unit
C85009	16-14	.187	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C85867	16-14	.250	Blue	50

Part No.	Wire Size	Stud Size	Ins. Color	Unit
C87671	12-10	.250	Yellow	50

Bowma-Crimp® Nylon-Insulated, Piggy-Back Quick Disconnects



- Used on Power Blocks, adds a secondary .250 Male Tab for easy addition of a secondary Female Push-on
- Funnel entry
- Insulation grip



Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
18579	22-18	.250	.032	Red	25
MP18579	22-18	.250	.032	Red	5

Continued on next page

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Terminals

Continued from previous page



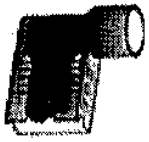
Part No.	Wire Size	Tab Size	Tab Thick	Ins. Color	Unit
18578	16-14	.250	.032	Blue	25
MP18578	16-14	.250	.032	Blue	5

Mates with any .250 Male Tab that is not fully insulated

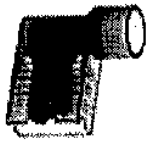
Flag Disconnects



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C39809	22-18	.187	Red	20



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C39810	22-18	.250	Red	20



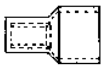
Part No.	Wire Size	Stud Size	Ins. Color	Unit
C39811	16-14	.187	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
C39812	16-14	.250	Blue	25

Mates with any .250 Male Tab that is not fully insulated

Bowma-Crimp® Nylon-Insulated End Caps



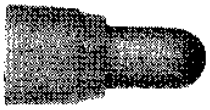
- Crimp style
- Nylon Insulation
- Funnel entry



Part No.	Wire Size	Ins. Color	Unit
18568	22-14	White	25
MP18568	22-14	White	5

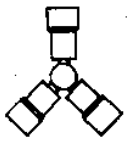


Part No.	Wire Size	Ins. Color	Unit
18567	16-10	White	25
MP18567	16-10	White	5



Part No.	Wire Size	Ins. Color	Unit
18566	18-8	White	25
MP18566	18-8	White	5

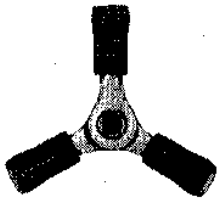
Three-Way Connectors



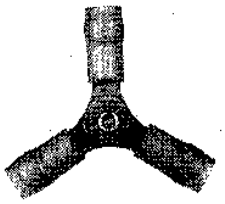
- Terminals tightly riveted together through the stud hole
- Nylon insulation
- Funnel entry
- Insulation grip



Part No.	Wire Size	Ins. Color	Unit
23015	22-16	Red	25
MP23015	22-16	Red	5

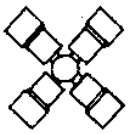


Part No.	Wire Size	Ins. Color	Unit
23036	16-14	Blue	25
MP23036	16-14	Blue	5



Part No.	Wire Size	Ins. Color	Unit
23076	12-10	Yellow	25
MP23076	12-10	Yellow	5

Four-Way Connectors



- Terminals tightly riveted together through the stud hole
- Nylon insulation
- Funnel Entry
- Insulation grip

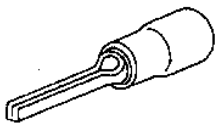


Part No.	Wire Size	Ins. Color	Unit
23037	16-14	Blue	25



Part No.	Wire Size	Ins. Color	Unit
23037-1	12-10	Yellow	15

Male Wire Pins



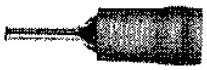
- Designed for installation in compression blocks
- Commonly used in European equipment and for terminating stranded wire
- Nylon insulation
- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23016	22-18	.070 x .075	Red	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23017	16-14	.070 x .075	Blue	50



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23018	12-10	.080 x .102	Yellow	50

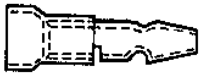
No mating female; Male used with switch & control equipment

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Bowma-Crimp® Nylon Insulated Male Snap Plugs



- Funnel entry
- Insulation grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22989	22-18	.157	Red	50
MP22989	22-18	.157	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22988	22-18	.176	Red	50
MP22988	22-18	.176	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
18588	16-14	.156	White	25

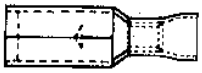


Part No.	Wire Size	Stud Size	Ins. Color	Unit
23099	16-14	.157	Blue	50
MP23099	16-14	.157	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23094	16-14	.376	Blue	50

Bowma-Crimp® Fully Insulated Nylon Female Snap Plugs



- Funnel entry



Part No.	Wire Size	Stud Size	Ins. Color	Unit
18560	22-18	.157	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22986	22-18	.180	Red	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
18561	16-14	.156/.157	Blue	25



Part No.	Wire Size	Stud Size	Ins. Color	Unit
22987	16-14	.180	Blue	25

Bowma-Crimp® Fully Insulated Nylon Male Snap Plug



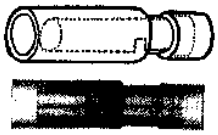
- Insulation Grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23079*	16-14	.156	Blue	25
C97164	16-14	.176	Blue	50

* Not Funnel entry

Bowma-Crimp® Fully Insulated Nylon Female Snap Plug



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23079-1*	16-14	.156	Blue	25

* Not Funnel entry

Bowma-Crimp® Fully Insulated Nylon Male Pin Plug



- Insulation Grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23078*	20-18	.079	Clear	25

* Not funnel entry

Bowma-Crimp® Fully Insulated Nylon Female Pin Plug



- Insulation Grip



Part No.	Wire Size	Stud Size	Ins. Color	Unit
23078-1*	20-18	.079	Clear	25

* Not Funnel entry

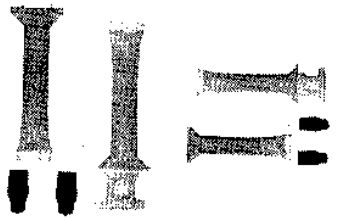
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Wire Connectors/Cable Ties

Direct Bury Splice Kits



- Direct bury splice kits splice and effectively moisture seal two or more conductors for remote control circuits in irrigation and landscape lighting systems
- Designed for installation of underground electrical splices
- Kits contain two gel-filled polypropylene tubes, two Scotchlok® connectors, and instructions
- Temperature range: 32°F to 120°F
- 600 volt rating; two splices per kit
- UL listed

Part No.	Wire Combinations Solid or Stranded	Unit
18542	Two No. 18; Two No. 12	1 Kit

Ty-Rap® Brand Cable Ties

Self-Locking Ty-Rap® Cable Ties

Tie body width .091"

- Natural standard nylon 6/6
- Features a stainless steel locking device in the head to maintain a grip of steel
- -40°F (-40°C) to 185°F (-85°C) continuous use
- Self-locking, tough nylon, non-conducting, non-magnetic and easy to use
- Exceeds minimum pull-out strength requirements specified in MIL-S-23190 (WEP)
- One-piece construction for long life reliability
- Wide cross section and stippled finish back provide a non-slip, wide bearing surface which requires fewer ties
- Withstand a wide range of climatic conditions; self-extinguishing material meets MIL-M-20693A

Tie body width .091"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23921*	3.62	18	1/16 - 5/8	100
23921-M*	3.62	18	1/16 - 5/8	1000
C422501*	7.00	18	1/16 - 1 1/2	100
23954	8.00	18	1/16 - 2	100
C422602	8.00	18	1/16 - 2	1000
23955	14.00	18	1/16 - 4	100
C422603	14.00	18	1/16 - 4	1000

Tie body width .140"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23922	5.50	40	1/16 - 1 1/8	100
23922-M	5.50	40	1/16 - 1 1/8	1000
23956	8.19	40	1/16 - 2	100
C422605	8.19	40	1/16 - 2	1000
C422506	11.10	40	1/16 - 3	100
23957	14.50	40	1/16 - 4	100
C422607	14.50	40	1/16 - 4	1000

Tie body width .184"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23923*	7.31	50	1/16 - 1 3/4	100
23923-M*	7.31	50	1/16 - 1 3/4	1000
23932	11.41	50	1/16 - 3	25
23932-M	11.41	50	1/16 - 3	1000
23926*	14.19	50	1/16 - 4	50
23926-M	14.19	50	1/16 - 4	1000

Tie body width .270"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23925	8.00	120	3/16 - 2	25
23927*	13.38	120	3/16 - 3 1/2	50
23927-M	13.38	120	3/16 – 3 1/2	500
C422513	18.00	120	3/16 – 5	50
C422514	24.30	120	3/16 – 7	50
23935*	30.00	120	7 1/2 - 9	25

* recognized

Tie body width .301"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
C422515	30.00	120	1 1/2 - 9	50

Self-Locking Ty-Rap® Cable Straps & Mounting Ties

- Adjustable so they eliminate a large inventory of plastic and metal fasteners
- Various style mounting heads let you choose the method of fastening you desire—bolts, push-in or nails

Tie body width .091"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
C422536*	4.00	#4	18	1/16 - 3/8	100

Tie body width .184"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
C422536	5.96	3/16	40	1/16 - 1 1/8	100
C422537	6.00	#8	40	1/16 - 1 1/8	100

Tie body width .140"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23924*	7.8	#10	50	1/16 - 1 3/4	100
C422542	7.8	1/4	50	1/16 - 1 3/4	50
23928	14.6	#10	50	1/16 - 4	25

Tie body width .270"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23929	13.9	1/4	120	3/16 - 3 1/2	25

Tie body width .184"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23934†	7.8	1/4	50	1/16 - 1 3/4	50

†Panel thickness .040 - .156
Recognized

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Self-Locking Ty-Rap® Cable Ties

For Outdoor Use

- Ultraviolet resistance nylon 6/6
- Resist deterioration from exposure to ultra-violet light for up to 20 years
- Features a stainless steel locking device in the head to maintain a grip of steel
- -40°F (-40°C) to 185°F (-85°C) continuous use
- Self-locking, tough nylon, non-conducting, non-magnetic and easy to use
- Exceeds minimum pull-out strength requirements specified in MIL-S-23190 (WEP)
- One-piece construction for long life reliability
- Wide cross section and stippled finish back provide a non-slip, wide bearing surface which requires fewer ties

Tie body width .091"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23921-X	3.62	18	1/16 - 5/8	100
23921-XM	3.62	18	1/16 - 5/8	1000
C422519	7.00	18	1/16 - 1 1/2	1000
23954-X	8.00	18	1/16 - 2	100
23955-X	14.00	18	1/16 - 4	100

Tie body width .140"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23922-X	5.50	40	1/16 - 1 1/8	100
23922-XM	5.50	40	1/16 - 1 1/8	1000
23956-X	8.19	40	1/16 - 2	100
C422524	11.10	40	1/16 - 3	100
23957-X	14.50	40	1/16 - 4	100

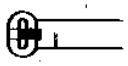
Tie body width .184"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23923-X	7.31	50	1/16 - 1 3/4	100
23923-XM	7.31	50	1/16 - 1 3/4	1000
23932-X	11.41	50	1/16 - 3	25
23932-XM	11.41	50	1/16 - 3	1000
23926-X	14.19	50	1/16 - 4	50
23926-XM	14.19	50	1-16 - 4	1000

Tie body width .270"

Part No.	Length (in.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23925-X	8.00	120	3/16 - 2	25
23927-X	13.38	120	3/16 - 3 1/2	50
C422531	18.00	120	3/16 - 5	50
C422532	24.30	120	3/16 - 7	50
23935-X	30.00	120	1 1/2 - 9	25

NOTE: Alternate quantities available, — A part numbers. See price book.



Tie body width .301"

Part No.	Length (In.)	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
C422533	30.00	120	1 1/2 - 9	50

Self-Locking Ty-Rap® Cable Straps and Mounting Ties

For Outdoor Use



- Black
- Nylon 6/6 weather-resistant material
- Ultraviolet resistant
- -40°F (-40°C) to 185°F (-85°C)
- Adjustable so they eliminate a large inventory of plastic and metal fasteners
- Various style mounting heads let you choose the method of fastening you desire - bolts, push-in or nails

Tie body width .091"

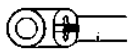
Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
C422543	4.00	#4	18	1/16 - 5/8	100

Tie body width .140"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
C422544	6.00	#8	40	1/16 - 1 1/8	100

Tie body width .184"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23924-X	7.8	No. 10	50	1/16 - 1 3/4	100
23928-X	14.6	No. 10	50	1/16 - 4	25

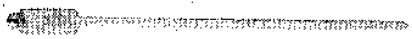


Tie body width .301"

Part No.	Length (In.)	Mounting Hole	Min. Tensile Holding Strgth (Lbs.)	Dia. Range (In.)	Unit
23929-X	13.9	1/4	120	3/16 - 3 1/2	25

Self-Locking Ty-Rap® Identification Tie & Marking Pen





- Identifies Ty-Rap® with 1/2" x 3/8" marking pad
- Easy-to-use, low-cost system for identifying leads, tubes, etc. at time of installation
- .184 width x 7.25 length ties 50 lb. minimum tensile unlocking strength
- 3/16" to 1 3/4" wire bundle range for ties
- The marking pen permanently identified Ty-Rap® secured leads

Part No.	Description	Unit
23943	Identification ties	25
23940	Black, no smear ink pen	1

Wire Bundling Ty-Rap®

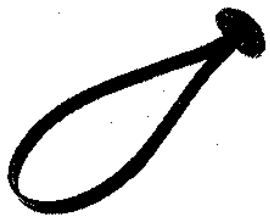
Chassis/Panel Mount Tie



- One-piece design fastens cables, hoses, or tubing to structural frame rails on trucks and heavy-duty equipment
- Rivet style head gives equipment a clean finished appearance — won't cut or chafe cables
- Grooved inner surface maintains a tight grip to avoid slippage under vibration
- Black nylon construction resists corrosion
- Broad clamping range of 1/16" to 2 3/8" replaces many sizes and types of metal clamps and rivets to reduce inventory
- Replaces GM No. 15517469

Part No.	Dimensions Length (In.)	Dimensions Width (In.)	Bundle Range (In.)	Min. Tensile Holding Strgth (Lbs.)	Unit
23985	9.65	.225	1/16 - 2 3/8	65	25

Button Head Cable Ties



- Two-piece, all plastic design provides for parallel entry and exit through the head
- Continuously serviceable at 195°F; used extensively on truck frames to hold wire and hoses
- Black color resists UV light and the weather

Part No.	Body Width (In.)	Length (In.)	Max. Wire Bundle Dia. (In.)	Tensile Strength (Lbs.)	Unit
C8884099	7/32	9 5/8	2 5/8	100	25

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Wire- Automotive & Vehicle

Primary Wire

Plastic Insulated Wire

Single Conductor Wire



- 50 volts maximum
- Temperatures range: -20°C (-68°F) to +60°C (+140°F)
- Resists moisture, weather, heat, oil, abrasion and aging
- PVC (polyvinylchloride) insulation
- Stranded copper conductor
- Exceeds ATA standards
- Meets SAE J1128 Type GPT specs
- 100 ft. plastic spool/1000 ft. metal spool

Wire Gauge No. 18

- 16 strands of 30GA
- Nominal OD–.09

Part No. 100 ft.	1000 ft.	Color	Unit
23410	—	White	1
23411	—	Red	1
23411-2	—	Black	1
23412	—	Green	1
23413	—	Brown	1
23413-1	—	Blue	1
23414	—	Yellow	1

Wire Gauge No. 16

- 19 strands of 29GA
- Nominal OD–.105

Part No. 100 ft.	1000 ft.	Color	Unit
23425	23425-1	White	1
23426	23430	Red	1
23438	23438-1	Black	1
23427	23427-1	Green	1
23428	23428-1	Brown	1
23424	—	Blue	1
23429	—	Yellow	1
23430-1	—	Orange	1
KP74921	—		1
KP74920	—		1

Wire Gauge No. 14

- 19 strands of 27GA
- Nominal OD–.123

Part No. 100 ft.	1000 ft.	Color	Unit
23440	23440-1	White	1
23441	23445	Red	1
23439-1	23439-3	Black	1
23442	23442-1	Green	1
23443	—	Brown	1
23439	23439-2	Blue	1
23444	23444-1	Yellow	1
23443-2	—	Orange	1
23446	—	Gray	1
KP74822	—	Orange	1
KP74923	—	Purple	1

Wire Gauge No. 12

- 19 strands of 25GA
- Nominal OD–.147

Part No. 100 ft.	1000 ft.	Color	Unit
23459	—	White	1
23460	—	Red	1
23459-1	—	Black	1
C11000	—	Green	1
C10999	—	Brown	1
C15198	—	Blue	1
C15199	—	Yellow	1

Wire Gauge No. 10

- 19 strands of 23GA
- Nominal OD–.183

Part No. 100 ft.	1000 ft.	Color	Unit
23467	—	White	1
23466	—	Red	1
23467-1	—	Black	1
C401107	—	Blue	1
C15201	—	Yellow	1

Wire Gauge No. 8

- 65 strands of 26GA
- Nominal OD–.230

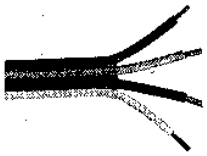
Part No. 100 ft.	1000 ft.	Color	Unit
23473	—	White	1
23472	—	Red	1
C84023	—	Black	1

NOTE: All units are (1 Roll)

Multi-Conductor Primary Wire

Bonded Parallel Primary Wire

2, 3, 4 or 6 Conductors



- 50 volts maximum
- Resistant to moisture, weather, heat, oil, abrasion and aging
- Stranded copper conductor
- PVC (polyvinylchloride) insulation
- Bonded together for ease in handling
- Meets ATA standards
- Meets SAE J1128 Type GPT specs
- .100 foot per roll

Part No.	Ga. Size/No. of Cond.	Color Code*	Strands No. x Ga.	Nom. O.D.	Unit
23489-1	16/2	BR/W	19 x 29	.102 x .205	1 Roll
23489-2	16/3	BR/Y/G	19 x 29	.102 x .300	1 Roll
23489-3	16/4	BR/W/Y/G	19 x 29	.102 x .408	1 Roll
23486	14/2	R/W	19 x 27	.123 x .250	1 Roll
23487	14/3	R/W/B	19 x 27	.123 x .369	1 Roll
23487-1	14/3	G/Y/BR	19 x 27	.123 x .369	1 Roll
23488	14/4	R/W/B/Y	19 x 27	.123 x .492	1 Roll
23488-5	14/4	Y/G/BR/W	19 x 27	.123 x .492	1 Roll
KP23392	16/3	B/W/G	19 x 29		1Roll

Jacketed Parallel Primary Wire

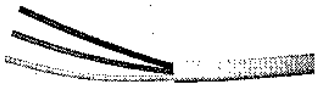
Two Conductor



- Insulated conductors covered with a heavy-duty jacket
- PVC (polyvinylchloride) insulating jacket
- Individual conductors have PVC insulation
- Recommended for trucks, buses, tractors, marine and general-purpose use
- Gray jacket color
- 100 foot per roll

Part No.	Ga. Size/No. of Cond.	Strands No. x Ga.	Color Code*	Nom. O.D.	Unit
KP23395	16/4		BK/W/G/R		1 Roll
23480	16/2	19 x 29	BK/W	.143 x .246	1 Roll
KP23396	14/4		BK/W/G/R		1 Roll
KP23393	14/3		BK/W/G		1 Roll
23482	14/2	19 x 27	BK/W	.163 x .286	1 Roll
KP23397	12/4		BK/W/G/R		1 Roll
KP23394	12/3		BK/W/G		1 Roll
23484	12/2	19 x 25	BK/W	.185 x .330	1 Roll
23481	10/2	19 x 23	BK/W	.218 x .396	1 Roll

Multi Conductor Flat Jacketed Tin Plated/Watertight Cable



- Tin plated copper wire is thermoplastic insulated, color-coded and covered with thermoplastic jacket to provide absolute water-tightness; flame retardant
- Temperature rated 167°F wet, 221°F dry; maximum voltage rating 600 volts
- Complies with U.S. Coast Guard, D.O.T., Part 183. 10-20 and UL specifications for AC or DC use

Part No.	Wire Gauge	No. of Conductors	Ft. per Spool	Wire Colors	Unit
KP76219	16	2	100	Black-White	1
KP76220	16	3	100	Black-White-Green	1
KP76221	14	2	100	Black-White	1
KP76222	14	3	100	Black-White-Green	1

*Color Reference Chart

Code	Color
B	— Blue
BK	— Black
BR	— Brown
G	— Green
R	— Red
W	— White
Y	— Yellow

GRAYSON INDUSTRIES, INC.

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Speaker Wire

Speaker Wire
Two Conductor

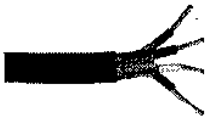


- Clear (polyvinylchloride) rip type insulation
- Color-coded conductor (copper and tinned copper)

Part No.	Ga. Size/No. of Cond.	Color	Length (Ft.)	Unit
23476	2½	Gold & Silver	100	1 Roll
KP23410	16½	Gold & Silver	100	1 Roll
KP79248	18½	Gold & Silver	100	1 Roll

Trailer Cable

Trailer Cable
4, 6 or 7 Conductor



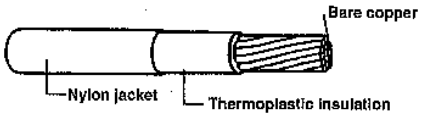
- Covered with a heavy-duty black Tuphoyzel® pt. size insulating jacket
- Withstands temperatures of -85° to +221°F (-29°C to +111°C); remains flexible at -70°F (-21°C)
- Stranded copper conductor
- High resistance to abrasives
- Resistant to oil, ozone, water, solvents and gasoline
- Meets ATA standards
- Meets SAE J559 specs
- Individual color-code conductors with Olefin rubber insulation

Part No.	Ga. Size/No. of Cond.	Color Code*	Nom. O.D.	Length (Ft.)	Unit
KP73491	14/4	BK/W/BR/R	.420	100	1 Roll
23490	14/4	BK/W/BR/R	.420	55	1 Roll
23491	16/6	BK/W/BR/R/G/Y	.530	55	1 Roll
23492	16/6	BK/W/BR/R/G/Y	.530	100	1 Roll
23497	16/7	BK/W/BR/R/G/Y/B	.600	100	1 Roll
23494	12 & 16/5*	BK/BR/R/G/Y/B/W	.690	55	1 Roll
23495	12 & 16/5*	BK/BR/R/G/Y/B/W	.690	100	1 Roll
KP7104	8-10-12	R/W/BK/BR/G/Y/B	-	100	1 Roll
KP9745	16/6	R/W/BK/BR/G/Y	-	100	1 Roll
KP68360	16/4	R/W/BK/BR	-	100	1 Roll
KP23398	16/2	BL/B	-	100	1 Roll

*Seven conductors: six at 12 gauge and one at 10 gauge

THHN Building Wire

THHN/THWN – TFFN/TFN
Building Wire



- Description:
  – Type THHN or THWN wire is a small diameter, general purpose 600-volt building wire. The thin, high-grade PVC insulation and smooth, tough, nylon jacket permits the easy use of more wires in a given size conduit. The wide range of listings by UL standard 83 include THWN-75°C wet or dry, THHN-90°C dry, machine tool wire 90°C dry, 60°C wet, appliance wire 105°C and sizes 14 through 10AWG, which are gasoline and oil resistant 75°C, VW-1 rated.
- Conductor:
  – Fully annealed stranded bare copper
  – Free stripping
- Insulations:
  – Thermoplastic insulated (PVC)
- Jacket:
  – Tough polyamide nylon armor
  – Temperature range:
  THHN: 90°C dry — NEC standard
  THWN: 75°C wet, dry or in oil – NEC standard
  AWM: -20° to 105°C
  – High tensile strength: 2600 psi
  – High dielectric strength: 2000V test potential
- Features:
  – Resistant to oils, gasoline, water, acids, ozone, alkalines, sunlight, and abrasion
- Industry approvals:
  – UL, OSHA acceptable
- Applications:
  – General purpose building wire, fixture raceways, conduit and tubing raceways, internal wiring of fixtures

WIRE GAUGE 14 THHN – THWN

- Copper conductor 19 strands

Part No.	Color Code	Insulation Thickness	Jacket Thickness	Nylon Nom. O.D. (In.)	Unit (Ft.)
17914N	Black	.015	.004	.117	500
17916N	White	.015	.004	.117	500
17915N	Red	.015	.004	.117	500
17897N	Blue	.015	.004	.117	500
17917N	Green	.015	.004	.117	500
17898N	Yellow	.015	.004	.117	500
17899N	Orange	.015	.004	.117	500
17900N	Brown	.015	.004	.117	500
17901	Purple	.015	.004	.117	500
17902	Pink	.015	.004	.117	500
17903N	Gray	.015	.004	.117	500

WIRE GAUGE 14 THHN – THWN

- Solid copper conductor

Part No.	Color Code	Insulation Thickness	Jacket Thickness	Nylon Nom. O.D. (In.)	Unit (Ft.)
14-THHNSOL-BLK	Black	.015	.004	.104	500
14-THHNSOL-WHT	White	.015	.004	.104	500
14-THHNSOL-RED	Red	.015	.004	.104	500
14-THHNSOL-BLU	Blue	.015	.004	.104	500
14-THHNSOL-GRN	Red	.015	.004	.104	500
14-THHNSOL-YEL	Yellow	.015	.004	.104	500
¤14-THHNSOL-ORG	Orange	.015	.004	.104	500
¤14-THHNSOL-BRW	Brown	.015	.004	.104	500
¤14-THHNSOL-PUR	Purple	.015	.004	.104	500
¤14-THHNSOL-PNK	Pink	.015	.004	.104	500
¤14-THHNSOL-GRY	Gray	.015	.004	.104	500

WIRE GAUGE 12 THHN – THWN

- Copper conductor 19 strands

Part No.	Color Code	Insulation Thickness	Jacket Thickness	Nylon Nom. O.D. (In.)	Unit (Ft.)
17918N	Black	.015	.004	.117	500
17920N	White	.015	.004	.117	500
17919N	Red	.015	.004	.117	500
17905N	Blue	.015	.004	.117	500
17921N	Green	.015	.004	.117	500
17906N	Yellow	.015	.004	.117	500
17907N	Orange	.015	.004	.117	500
17908N	Brown	.015	.004	.117	500
17909	Purple	.015	.004	.117	500
17926N	Pink	.015	.004	.117	500
17927N	Gray	.015	.004	.117	500

WIRE GAUGE 12 THHN – THWN

- Solid Copper Conductor

Part No.	Color Code	Insulation Thickness	Jacket Thickness	Nylon Nom. O.D. (In.)	Unit (Ft.)
12-THHNSOL-BLK	Black	.015	.004	.121	500
12-THHNSOL-WHT	White	.015	.004	.121	500
12-THHNSOL-RED	Red	.015	.004	.121	500
12-THHNSOL-BLU	Blue	.015	.004	.121	500
12-THHNSOL-GRN	Red	.015	.004	.121	500
12-THHNSOL-YEL	Yellow	.015	.004	.121	500
12-THHNSOL-ORG	Orange	.015	.004	.121	500
12-THHNSOL-BRW	Brown	.015	.004	.121	500
12-THHNSOL-PUR	Purple	.015	.004	.121	500
12-THHNSOL-PNK	Pink	.015	.004	.121	500
12-THHNSOL-GRY	Yellow	.015	.004	.121	500

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Wire Accessories

Wire Marker Tapes



- .215 in. x 8 ft. rolls available in Nos. 0 through 9
- Black numerals on white tape
- Reinforced 5.5 mil epoxy film tape with pressure sensitive adhesives
- Non-smear material resists abrasion, oil and water
- High tack adhesive adheres to clean neoprene, Hypalon, nylon and PVC insulation materials
- Flame-retardant, excellent readability at high temperatures

Part No.	Tape No.	Unit
C89425	0	1
C89416	1	1
C89417	2	1
C89418	3	1
C89419	4	1
C89420	5	1
C89421	6	1
C89422	7	1
C89423	8	1
C89424	9	1

Tape Dispenser



- Use with wire marker tapes (C89416 through 89425)
- Marker tapes not included
- Holds up to 10 rolls of tape

Part No.	Description	Unit
C89415	Tape dispenser	1

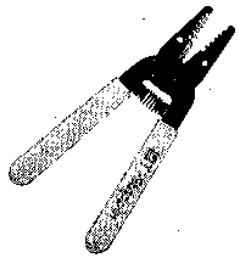
Ideal Yellow 77® Wire-Pulling Lube



- Wax-based formulation that is exceptionally slippery and protects cable during the pulling process
- It is easy to apply, consistent in quality and specially suited for non-stop, long-distance pulls
- UL listed and CSA certified

Part No.	Wire Combination Range	Unit
IDL-31-358	1-qt. Squeeze Bottle	1

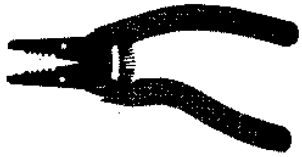
Ideal T® Stripper Wire Strippers



- Quality built strippers that feature looping holes and a built-in wire cutter
- The precision knife-type blades allow for an accurate, easy strip every time
- Equipped with a colorful, cushioned, plastic grip that offers comfort and high visibility

Part No.	Description	Wire Range	Unit
IDL-45-120	Standard T-S®	18-18 AWG Solid	1
KP28080	Standard T	16-26 AWG-Standard	1
KP28081	Standard T	8-16 AWG- Standard	1

Ideal® Reflex™ Premium Super T®-Stripper Wiring Tool



All of the T®-Stripper features plus:

- Contoured, comfort grip handles to reduce operator fatigue
- Ergonomic design for maximum comfort
- Curved handles to reduce wrist fatigue, with locking feature
- Sleeves that extend to stripping head to cushion thumb and fingers
- 6/32 and 8/32 screw cutting holes
- Made in the U.S.A.

Kar No.	Description	Handle Color
KP28082	8-16 AWG-Solid Wire	Yellow
KP150608	16-25 AWG-Stranded	Red
KP150609	8-16 AWG-Stranded	Red

ALL UNIT QTY: 1

Heat Shrink Tubing

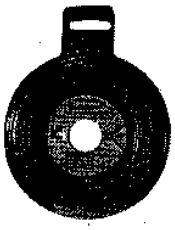
Thin Wall Heat Shrink Tubing

- Radiation cross-linked tubing constructed of flame retarded polyolefin; lightweight harness jackets
- Excellent physical, chemical and electrical properties
- 50% shrinkage ratio
- Designed for a wide range of applications, insulating and wire strain relief
- Operating temperature -67°F to +275°F (-55°C to +135°C) rated to 600 volts
- Meets MIL-I-23053/5 Class 1 and MIL-R-46846 Type V

Part No.	Color	For 2-Way Connectors Cable Sizes	Length	I.D. Min. Exp./ Max. Rec.	Unit
23538	Black	28-24 AWG	4"	.063/.031	20
KP26374	Clear	28-24 AWG	6	.063/.031	10
23539	Green	22-18 AWG	4"	.125/.062	20
23539-R	Green	22-18 AWG	25'	.125/.062	1 Roll
C423910	Clear	22-18 AWG	2"	.125/.062	10
C423008	Clear	22-18 AWG	25'	.125/.062	1 Roll
KP83915	Red	18-14 AWG	6	.187/.093	10
23540	Yellow	16-14 AWG	4"	.187/.093	20
C84024	Yellow	16-14 AWG	2'	.187/.093	5
23540-R	Yellow	16-14 AWG	25'	.187/.093	1 Roll
C423009	Clear	16-14 AWG	25'	.187/.093	1 Roll
23541	Blue	12-10 AWG	4"	.250/.125	20
C84025	Blue	12-10 AWG	2'	.250/.125	5
23541-R	Blue	12-10 AWG	25'	.250/.125	1 Roll
C423912	Clear	12-10 AWG	2"	.250/.125	10
C423010	Clear	12-10 AWG	25'	.250/.125	1 Roll
KP26321	Black	12-10 AWG	6	.312/.156	10
23542	Red	8-6 AWG	6"	.375/.187	20
C84026	Red	8-6 AWG	2'	.375/.187	5
23542-R	Red	8-6 AWG	25'	.375/.187	1 Roll
C423913	Clear	8-6 AWG	2"	.375/.187	10
C423011	Clear	8-6 AWG	25'	.375/.187	1 Roll
23543	Black	4-2 AWG	6"	.500/.250	10
C84027	Black	4-2 AWG	2'	.500/.250	5
23543-R	Black	4-2 AWG	25'	.500/.250	1 Roll
C423012	Clear	4-2 AWG	25'	.500/.250	1 Roll
23544	White	2, 1, 1/0 & 3/0 AWG	6"	.750/.375	10
C84028	White	2, 1, 1/0 & 3/0 AWG	6"	.750/.375	10
23544-R	White	1/0 AWG	25'	.750/.375	5
23545	Orange	3/0, 4/0, 250 & 350 MCM	6"	1.000/.500	5

Super Shrink Thin Wall Heat Shrink Tubing (continued)

Disk Pack



- Has all the same features, benefits and specifications as Kar's standard thin wall polyolefin heat shrink tubing
- Dispenser is designed to hold the tubing in place for easy cutting and provides for visual stock status along with convenient storage
- Disk pack contains 8 feet of tubing

Part No.	Tube Color	Tube Dia.	Tube I.D. Exp. Rec.	Wire Range	Wall Thickness
KP26357	Black	1/8	.125 .062	22-18	.020
KP26363	Red	1/8	.125 .062	22-18	.020
KP26358	Black	1/4	.250 .125	16-14	.025
KP26364	Blue	1/4	.250 .125	16-14	.025
KP26359	Black	5/16	.312 .156	12-10	.025
KP26365	Yellow	5/16	.312 .156	12-10	.025
KP26360	Black	3/8	.375 .187	10-8	.025
KP26361	Black	1/2	.500 .250	8-4	.025
KP26362	Black	3/4	.750 .375	2/0	.030

ALL UNIT QTY: 1

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Thin Wall Low-Temp Heat Shrink Tubing

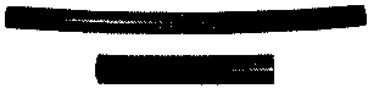


- Flexible, polyolefin black tubing
- Minimum shrink temperature of 194°F (+90°C) greatly reduces installation time and the potential for damage to components caused by high heat
- 2 to 1 shrinkage ratio
- Rated for continuous operation from -67°F to +275°F (-55°C to +135°C)
- Meets MIL-I-23053/5 Class 1 & 3 specifications
- Meets UL and CSA specifications

Part No.	I.D. Min. Exp./ Max. Rec.	Nom. Size (In.)	AWG	Length (In.)	Unit
23615	.046/.023	3/64	30 - 28	6	10
¤23615-R	.046/.023	3/64	30 - 28	25ft.	1 Roll
23616	.063/.031	1/16	28 - 26	6	10
23616-R	.063/.031	1/16	28 - 26	25ft.	1 Roll
23617	.093/.046	3/32	24 - 22	6	10
23617-R	.093/.046	3/32	24 - 22	25ft.	1 Roll
23618	.125/.062	1/8	20 - 18	6	10
23618-R	.125/.062	1/8	20 - 18	25ft.	1 Roll
23619	.187/.093	3/16	16 - 14	6	10
23619-R	.187/.093	3/16	16 - 14	25ft.	1 Roll
23620	.250/.125	1/4	12 - 10	6	10
23620-R	.250/.125	1/4	12 - 10	25ft.	1 Roll
23621	.375/.187	3/8	8 - 6	6	10
23621-R	.375/.187	3/8	8 - 6	25ft.	1 Roll
23622	.500/.250	1/2	4 - 2	6	5
23622-R	.500/.250	1/2	4 - 2	25ft.	1 Roll
23623	.750/.375	3/4	1 - 3/0	6	5
23623-R	.750/.375	3/4	1 - 3/0	25ft.	1 Roll
23624	1.000/.500	1	3/0 - 1/0	6	5
23624-R	1.000/.500	1	3/0 - 1/0	25ft.	1 Roll
23625	1.500/.750	1 1/2	1/0 - 400MCM	6	2
¤23625-R	1.500/.750	1 1/2	1/0 - 400MCM	25ft.	1 Roll
23626	2.000/1.000	2	1.0" - 1.8" Dia	6	2
¤23626-R	2.000/1.000	2	1.0" - 1.8" Dia	25ft.	1 Roll
23627	3.000/1.500	3	1.5" - 2.8" Dia	6	2
¤23627-R	3.000/1.500	3	1.5" - 2.8" Dia	25ft.	1 Roll
23628	4.000/2.000	4	2.0" - 3.8" Dia	6	2
¤23628-R	4.000/2.000	4	2.0" - 3.8" Dia	25ft.	1 Roll

Melt 'N Seal Medium Wall Low-Temp Heat Shrink Tubing

Translucent with Adhesive Sealant



- A polyolefin multi wall heat shrink tubing that turns a clear tinted color after heating (Tubing is marked with wire range)
- Used in electrical and mechanical applications and provides resistance to the environment
- Meets NEC code for dry and damp location use

Operating Temp.	— -65° to 230°C
Min. Shrink Temp.	— 250°F
Shrink Ratio	— 2.5 to 1
Elongation	— 400%
Longitudunal	— +/-5%
Tensile	— 2,100psi
Dielectric	— 600 volts/mil
Mil. Spec.	— MIL-I-23053/4
Flame Retardant	— Jacket only
Tubing Type	— Semi-rigid

Part No.	OAL	Tube Color	Tube Dia.	Unit
KP81639	1½	Red	3/16	25
KP81640	1½	Blue	1/4	25
KP81641	1½	Yellow	5/1	25
KP81636	6	Red	3/16	6
KP81637	6	Blue	1/4	6
KP81638	6	Yellow	5/16	6

Part No.	Tube I.D. Exp. Rec.	Wire Range	Wall Thickness	Unit
KP81639	.187 .075	22-18	.047	25
KP81640	.250 .100	16-14	.047	25
KP81641	.312 .125	12-10	.050	25
KP81636	.187 .075	22-18	.047	6
KP81637	.250 .100	16-14	.047	6
KP81638	.312 .125	12-10	.050	6

Dual Wall Heat Shrink Tubing With Adhesive Sealant



- Clear polyolefin tubing
- Excellent chemical resistance
- Ideal for splicing and insulating applications — provides high dielectric strength
- 4 to 1 shrink ratio
- Meets MIL-I-23053/4 Class 3 specifications
- Rated for continuous operation from -22°F to +230°F (-30°C to +110°C)

Part No.	For 2-Way Connectors Cable Sizes	I.D. Min. Exp./Max. Rec.	Length (In.)	Unit
C95990	14-12 AWG	.187/.060	6	5
23546	12-10 AWG	.293/.065	6	5
23547	8-6 AWG	.427/.095	6	5
23548	4-2 AWG	.700/.175	6	5

Dual Wall Heat Shrink Tubing With Adhesive Liner



- Radiation cross-linked black tubing constructed of flame retarded polyolefin
- Excellent physical, chemical and electrical properties: resists vibration, abrasion, and corrosion while providing superior strain relief
- 3 to 1 shrinkage ratio
- As tubing shrinks, the adhesive liner melts and flows to seal and encapsulate
- Rated for continuous operation from -31°F to +230°F (-35°C to +110°C)
- Minimum shrink temperature +257°F (+125°C)
- Meets MIL-I-23053/4** Class 3 specifications
- UL and CSA recognized

Black

Part No.	Nom. Size (In.)	AWG	I.D. Min. Exp./ Max. Rec.	Length (In.)	Unit
23630	1/8	22 - 18	.125/.040	6	5
23630-4	1/8	22 - 18	.125/.040	4ft.	2
23631	3/16	16 - 14	.187/.060	6	5
23631-4	3/16	16 - 14	.187/.060	4ft.	2
23632	1/4	12 - 10	.250/.080	6	5
23632-4	1/4	12 - 10	.250/.080	4ft.	2
23633	3/8	8 - 6	.375/.120	6	5
23633-4	3/8	8 - 6	.375/.120	4ft.	2
23634	1/2	4 - 2	.500/.157	6	5
23634-4	1/2	4 - 2	.500/.157	4ft.	2
23635	3/4	2 - 1/0	.750/.230	6	2
23635-4	3/4	2 - 1/0	.750/.230	4ft.	1
23636	1	3/0 - 350MCM	1.000/.320	6	2
23636-4	1	3/0 - 350MCM	1.000/.320	4ft.	1

Red

Part No.	Nom. Size (In.)	AWG	I.D. Min. Exp./ Max. Rec.	Length (In.)	Unit
C8882732	.4	14 - 6 AWG	.15	6	5
C8883698	3/4	8 - 1 AWG	.25	6	5
C8889914	1.1	2 - 4/0 AWG	.375	6	5

**With the exception of low temperature flexibility, elongation and tensile strength after fluid resistance.

Dual Wall Heat Shrink Tubing With Adhesive Liner



- Black or red
- Multiple wall polyolefin tubing with meltable, integral inner wall
- Excellent physical, chemical, and electrical properties; resists vibration, abrasion, and corrosion while providing superior strain relief
- 2.5 to 1 shrinkage ratio
- As tubing shrinks, the adhesive liner melts and flows to seal and encapsulate
- Minimum shrink temperature of 275°F (350°C)
- Operating temperature of -67°F to 230°C
- Meets MIL-I-23053/4, class 1 and AMS 3634 specifications
- Provides high dielectric strength
- To be used with Bowman battery slugs (Part Nos. 17227-17233)

Part No.	Nominal Size (In.)	Color	AWG	Unit
23637-B	1/2	Black	6 GA.	5
23637-R	1/2	Red	6 GA.	5
23638-B	3/4	Black	2, 1, 1/0 and 20	5
23638-R	3/4	Red	2, 1, 1/0 and 20	5
23639-B	1	Black	3/0 & 4/0	5
23639-R	1	Red	3/0 & 4/0	5
KP26335	1/2	Red	8-4	6
KP26354	3/16	Red	20-14	6
KP26355	1/4	Blue	18-10	6
KP75465	1/8	Black	30-18	6
KP75466	3/16	Black	20-14	6
KP75467	1/4	Black	18-10	6
KP75468	3/8	Black	12-6	6
KP75469	1/2	Black	8-4	6
KP75470	3/4	Black	4-2/0	6

NOTE: B = Black, R = Red

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Fittings-Brass

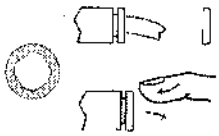
Tube Support Inserts



- Replacement inserts for any Barnes Quick Fit Fitting
- Tube support reinforcing the slotted collet's grip on the tubing O.D. providing a stronger connection
- ALL UNIT QTY: 10

Part No.	Tube O.D. (In.)
KP79601	¼
KP79602	⅜
KP79603	½

Manual Release Buttons



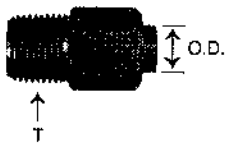
- Mounts by simply snapping release button onto any Kar Quick Fit Fitting
- Allows fast, easy removal of the tubing by hand without using a disconnecting tool or screwdriver
- 3/8" and 1/2" tube size fittings have non-removable release buttons
- ALL UNIT QTY: 10

Part No.	Tube O.D. (In.)
KP23895	¼
KP79169	½

NOTE: Approved for all air brake applications except those designed for use between frame and axle or between towed and towing vehicle.

Male Connector

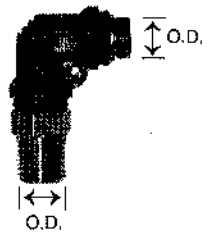
Tube to male N.P.T.



Part No.	Tube O.D. (In.)	T N.P.T.	Unit
KP79031	⅛	⅛	10
KP79032	¼	¼	10
LG1006	⅜	⅛	5
KP79033	¼	⅜	10
KP79034	⅜	¼	6
KP79035	⅜	⅜	6
KP79036	⅜	½	6
KP79037	½	¼	6
KP79038	½	⅜	6
KP79039	½	½	6

Male Elbow

Tube to male N.P.T.

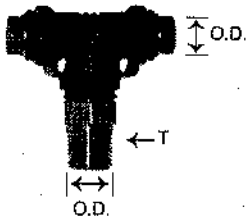


This fitting swivels 360° on its threaded base

Part No.	Tube O.D. (In.)	T N.P.T.	Unit
KP79040	¼	⅛	10
KP79041	¼	¼	10
KP79042	¼	⅜	10
KP79043	⅜	¼	6
KP79044	⅜	⅜	6
KP79045	⅜	½	6
KP79046	½	¼	6
KP79047	½	⅜	6
KP79048	½	½	6

Male Branch Tee

Tube to male N.P.T. to tube



This fitting swivels 360° on its threaded base

Part No.	Tube O.D. (In.)	T N.P.T.	Unit
KP79049	¼	⅛	6
KP79050	⅜	¼	4
KP79051	⅜	⅜	4
KP79052	½	⅜	2

Male Run Tee

Tube to tube to male N.P.T.



This fitting swivels 360° on its threaded base

Part No.	Tube O.D. (In.)	T N.P.T.	Unit
KP79053	¼	⅛	6
LG1003	¼	¼	1
KP79054	⅜	¼	4
KP79055	⅜	⅜	4

Straight Female Connector

Tube to female N.P.T.



Part No.	Tube O.D. (In.)	T N.P.T.	Unit
LG1007	5/32	⅛	1
KP79057	¼	⅛	6
KP79058	¼	¼	6
KP79059	⅜	¼	4
KP79060	⅜	⅜	4

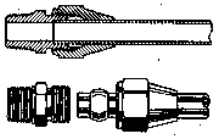
NOTE: Approved for all air brake applications except those designed for use between frame and axle or between towed and towing vehicle.
Manual release buttons are available separately.

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Air Brake- For Copper Tubing- DOT

Air Brake For Copper



Application:
Automotive air brake systems.

Pressure:
Exceeds pressure requirements of all automotive air brake systems.

Temperature:
-65°F to 250°F

Used With:
Copper tubing in air brake systems.

Advantages:
Low cost, availability, no flare required, easy to assemble.

Approvals:
SAE automotive tube fittings standards for extruded and forged fittings. Meets military specifications.

Note:
Be sure to use proper sleeve.
The spherical sleeve compression type fittings are intended for use with annealed copper alloy tubing per SAE J1149, Type 1.

Cock, Drain



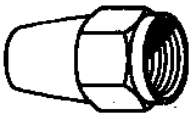
Part No.	Ind. Dash No.	Male Pipe Thread (In.)	Unit
W15310	-4	¼	5

Sleeves



Part No.	Parker No.	Tube Size (In.)	Unit
W-00457	60AB-4	¼	25
KP74333	—	5/16	25
W-00361	60AB-6	3/8	25
W-03754	60AB-8	½	20
W-10612	60AB-10	5/8	10
W-03897	60AB-12	¾	10

Nuts



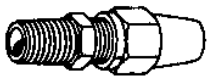
Part No.	Parker No.	Tube Size (In.)	Unit
W-00455	61AB-4	¼	10
KP74334	—	5/16	10
W-00360	61AB-6	3/8	20
W-03755	61AB-8	½	5
W-10613	61AB-10	5/8	10
W-03896	61AB-12	¾	5

Unions



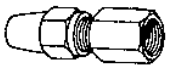
Part No.	Parker No.	Tube Size (In.)	Unit
W-05514	62AB-4	¼	5
KP27274	—	5/16	5
W-05134	62AB-6	3/8	5
W-15710	62AB-8	½	5
W-21826	62AB-10	5/8	10
W-16523	62AB-12	¾	5

Male Connector



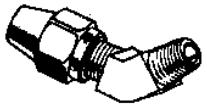
Part No.	Parker No.	Tube Size (In.)	Male Pipe Thread (In.)	Unit
W-05127	68AB-4-2	¼	1/8	5
W-05183	68AB-4-4	¼	¼	5
C99827	68AB-4-6	¼	3/8	5
KP27299	—	5/16	1/8	5
KP27300	—	5/16	¼	5
W-05509	68AB-6-2	3/8	1/8	5
W-05053	68AB-6-4	3/8	¼	10
W-05824	68AB-6-6	3/8	3/8	10
W-22063	68AB-6-8	3/8	½	5
W-17690	68AB-8-4	½	¼	10
W-17525	68AB-8-6	½	3/8	5
W-17691	68AB-8-8	½	½	10
W-16685	68AB-10-6	5/8	3/8	5
W-16684	-	5/8	½	10
W-17621	68AB-12-8	¾	½	5
W-15762	68AB-12-12	¾	¾	5

Female Connector



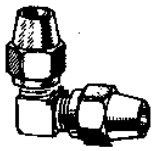
Part No.	Parker No.	Tube Size (In.)	Female Pipe Thread (In.)	Unit
C99832	66AB-4-2	¼	1/8	5
C99834	66AB-6-2	3/8	1/8	2
W-05826	66AB-6-4	3/8	¼	5
W-05827	66AB-6-6	3/8	3/8	5
W-15711	66AB-8-6	½	3/8	5
C99838	66AB-8-8	½	½	2
C99839	66AB-10-6	5/8	3/8	2
C99840	66AB-10-5	5/8	½	2

45° Male Elbow



Part No.	Parker No.	Tube Size (In.)	Pipe Thd. (In.)	Unit
C99874	279AB-6-2	3/8	1/8	2
W-20722	279AB-6-4	3/8	¼	10
W-20291	279AB-6-6	3/8	3/8	5
C99877	279AB-6-8	3/8	½	2
W-20292	279AB-8-6	½	3/8	5
C99879	279AB-8-8	½	½	2
W-22065	279AB-10-8	5/8	½	5

Union Elbow



Part No.	Parker No.	Tube Size (In.)	Unit
W-05113	265AB-6	3/8	5
W-22359	265AB-8	½	5
W-22360	265AB-10	5/8	5

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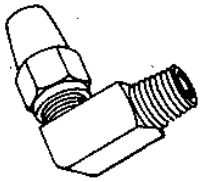
Fittings-Brass

90° Male Elbow



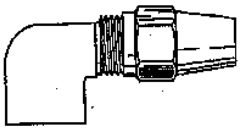
Part No.	Parker No.	Tube Size (In.)	Pipe Thd. (In.)	Unit
W-05539	269AB-4-2	¼	⅛	5
W-24318	269AB-4-4	¼	¼	5
KP27316	—	5/16	⅛	5
KP27317	—	5/16	¼	5
W-05522	269AB-6-2	⅜	⅛	5
W-05102	269AB-6-4	⅜	¼	10
W-05829	269AB-6-6	⅜	⅜	5
W-22062	269AB-6-8	⅜	½	10
W-20475	269AB-8-4	½	¼	10
W-15709	269AB-8-6	½	⅜	10
W-16310	269AB-8-8	½	½	5
W-21993	269AB-10-6	⅝	⅜	10
W-21825	269AB-10-8	⅝	½	5
C99831	269AB-12-8	¾	½	5

Male Elbow, Long Type



Part No.	Ind. Dash No.	Tube Size (In.)	Male Pipe Thread (In.)	Unit
W-22858	6-4	⅜	¼	10
W-17061	8-6	½	⅜	10
W-17504	12-8	¾	½	5

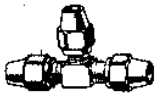
Female Elbow



SAE No. 120203 BA

Part No.	Parker No.	O.D. (In.)	Pipe Size	Straight Thread Size	Unit
C99849	270AB-4-2	¼	⅛	7/16-24	5
C99850	270AB-4-4	¼	¼	7/16-24	5
C99851	270AB-6-2	⅜	⅛	17/32-24	2
C99852	270AB-6-4	⅜	¼	17/32-24	2
C99853	270AB-6-6	⅜	⅜	17/32-24	2
C99854	270AB-8-6	½	⅜	11/16-20	2
C99855	270AB-8-8	½	½	11/16-20	2
C99856	270AB-10-8	⅝	½	13/16-18	2

Union Tee



Part No.	Parker No.	Tube Size (In.)	Unit
KP27284	264AB-4	¼	3
W-17663	—	⅛ ⅜ ½	5
KP27285	264AB-6	⅜	3
W-15712	264AB-8	½ ½ ½	5
KP27286-1	264AB-10	⅝	3

Male Run Tee



Part No.	Parker No.	O.D. (In.)	Pipe Size (In.)	Unit
KP27335	271AB-4-2	¼	⅛	3
KP27336	271AB-6-4	⅜	¼	3
KP27337	271AB-8-6	½	⅜	3

Male Branch Tee



Part No.	Parker No.	Tube Size (In.)	Male Pipe Thread (In.)	Unit
W-17051	VS272AB-6-2	⅜	⅛	5
W-05103	VS272AB-6-4	⅜	¼	10
W-05177	VS272AB-6-6	⅜	⅜	5
W-15700	VS272AB-8-6	½	⅜	5

Threaded Sleeve

Threaded Sleeve Fittings

Applications:

Air, oil, water and lubrication lines

Pressure:

500 psi maximum for ⅛" to ¼" sizes. 250 psi for 5/16" and ⅜" sizes

Vibration:

Fair resistance

Temperature:

-65°F to 250°F

Used With:

Copper, aluminum, plastic tubing. Not recommended for steel tubing; soft plastic tubing requires internal tube support

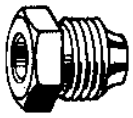
Advantages:

Low cost; no flaring required; easy to assemble

Conformance:

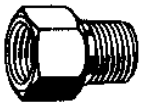
Meets specifications and standards of ASA and ASME

Nuts



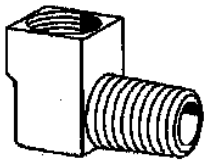
Part No.	Ind. Dash No.	Tube Size (In.)	Thread Size (In.)	Unit
11102	-2	⅛	5/16-24	10
11103	-3	3/16	⅜-24	10
11104	-4	¼	7/16-24	10
C7987	-4	¼	½-20	10
11105	-5	5/16	½-20	10
11106	-6	⅜	9/16-20	10

Connector, Male



Part No.	Ind. Dash No.	Tube Size (In.)	Thread Size (In.)	Pipe Thd. (In.)	Unit
11128-1	2-2	⅛	5/16-24	⅛-27	10
11126	3-2	3/16	⅜-24	⅛-27	10
11127	4-2	¼	7/16-24	⅛-27	10
MP11127	4-2	¼	7/16-24	⅛-27	5
11128	5-2	5/16	½-20	⅛-27	10
MP11128	5-2	3/16	½-20	⅛-27	5
C8060	6-4	⅜	9/16-20	¼-18	10

Male Elbow



Part No.	Tube O.D. (In.)	Pipe Size (In.)	Straight Thread	Unit
C8061	⅛	⅛	5/16-24	5
C8062	3/16	⅛	⅜-24	10
C8063	¼	⅛	7/16-24	10
C18882	5/16	⅛	½-20	10
C18883	⅜	¼	9/16-20	5

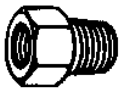
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Hydraulic Brake Fittings

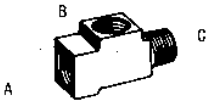
Dual Master Cylinder Adapter



Part No.	Inverted Male Thread (In.)	Inverted Female Thread (In.)	Unit
11807	3/16 T (3/16-18 thd.)	3/16 T (3/16-24 thd.)	5
11809	3/16 T (3/16-18 thd.)	3/16 T (1/2-20 thd.)	5
11804	3/16 T (3/16-20 thd.)	3/16 T (3/16-24 thd.)	5
11801	3/16 T (3/16-24 thd.)	1/4 T (7/16-24 thd.)	5
11800	1/4 T (7/16-24 thd.)	3/16 T (3/16-24 thd.)	5
11803	1/4 T (7/16-18 thd.)	1/4 T (7/16-24 thd.)	5
11806	5/16 T (1/2-20 thd.)	3/16 T (3/16-24 thd.)	5
11808	5/16 T (1/2-20 thd.)	3/16 T (7/16-18 thd.)	5
11802	5/16 T (1/2-20 thd.)	1/4 T (7/16-24 thd.)	5

Adapter Tee, Towed Trailer

Special-Purpose Fittings



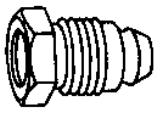
Part No.	Female Inverted Seat A (In.)	B (In.)	Male Thread C (In.)	Unit
11811	3/16 (3/8-24)	3/16 (3/8-24)	3/16 inv. (3/8-24)	5
11814	3/16 (1/2-20)	3/16 (3/8-24)	1/2-20 inv.	5
11813	3/16 (9/16-18)	3/16 (3/8-24)	3/16 inv. (9/16-18)	5
11812	1/4 (7/16-24)	3/16 (3/8-24)	1/4 inv. (7/16-24)	5

Air Tank Valve



Part No.	Ind. Dash No.	Pipe Size (In.)	Unit
2418	-4	1/4	10

Inverted Flare Nut



Part No.	Ind. Dash No.	Tube Size (In.)	Unit
11120	-4	1/4	10

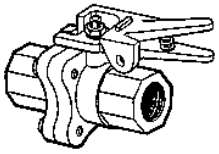
Multi-Purpose Air Vent



Part No.	Ind. Dash No.	Pipe Size (In.)	Unit
2417	-2	1/8	10

New York Air Brake-Railroad Industry

Ball Valve, Air Brake



- With 1/8" bottom vent and locking handle
- Full porting

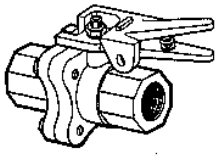
Part No.	NYAB No.	Size	Cock Open	Cock Closed	Unit
R-704840-NY	704840	1	90 deg.	0 deg.	1

Gasket

- Coupling hose

Part No.	NYAB No.	Unit
R-563952-NY	563952	1

Ball Valve, Air Brake



- With locking handle
- Full porting

Part No.	NYAB No.	Size	Cock Open	Cock Closed	Unit
R-572470-NY	572470	3/8	90 deg.	0 deg.	1
R-572471-NY	572471	1/2	90 deg.	0 deg.	1
R-572472-NY	572472	3/4	90 deg.	0 deg.	1
R-572473-NY	572473	1	90 deg.	0 deg.	1
R-572474-NY	572474	1 1/4	90 deg.	0 deg.	1

Ball Valve, Air Brake

- With E.O.H. vent and locking handle
- Full porting

Part No.	NYAB No.	Size	Cock Open	Cock Closed	Unit
R-576600-NY	576600	3/4	90 deg.	0 deg.	1

Ball Valve, Air Brake



- With standard handle
- Full porting

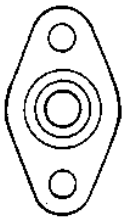
Part No.	NYAB No.	Size	Cock Open	Cock Closed	Unit
R-572463-NY	572463	3/8	90 deg.	0 deg.	1
R-572464-NY	572464	1/2	90 deg.	0 deg.	1
R-572467-NY	572467	1 1/4	90 deg.	0 deg.	1

Ball Valve, Air Brake

- With standard handle
- Standard porting

Part No.	NYAB No.	Size	Cock Open	Cock Closed	Unit
R-572459-NY	572459	1/2	90 deg.	0 deg.	1
R-572460-NY	572460	3/4	90 deg.	0 deg.	1
R-572461-NY	572461	1	90 deg.	0 deg.	1

Swivel & Flange Assembly



- Adjustable
- Socket weld

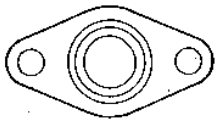
Part No.	NYAB No.	Flange Size	Pipe Size	Unit
R-565256-NY	565256	3/4	3/4	1
R-565259-NY	565259	1	1	1
R-565262-NY	565262	1 1/4	1 1/4	1

Swivel & Flange Assembly

- Reducer
- Adjustable
- Socket weld

Part No.	NYAB No.	Flange Size	Pipe Size	Unit
R-565255-NY	565255	3/4	1/2	1

Swivel & Flange Assembly



- Deep
- Socket weld
- Adjustable

Part No.	NYAB No.	Flange Size	Pipe Size	Unit
578787	578787	3/8	3/8	1
578788	578788	3/4	3/4	1
578789	578789	1	1	1
578790	578790	1 1/4	1 1/4	1

Swivel & Flange Assembly

- With split flange
- Straight
- Deep
- Socket weld

Part No.	NYAB No.	Flange Size	Pipe Size	Unit
R-705426-NY	705426	1 1/4	1 1/4	1

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1456

Lugs for Crimp or Solder Applications



- Heavy-duty crimp or solder type
- Highest grade electrolytic copper for superior conductivity
- Tin plated to resist corrosion
- Flared for easy wire insertion
- Fully annealed for easy and secure crimping
- AWG identification
- UL listed for 600-volt industrial application
- CSA approved

Part No.	Cable Size	Stud Size (In.)	Unit
C419364	6 ga.	¼	10
C8884169	6 ga.	5/16	25
C419363	8 ga.	¼	10
C419362	8 ga.	#10	10
C22095	6 ga.	3/8	10
23700	4 ga.	¼	10
23701	4 ga.	5/16	10
23401-1	4 ga.	3/8	10
23401-1X	4 ga.	½	10
KP81834	4 Ga./Wide Pad	½	10
23702	2 ga.	¼	10
23703	2 ga.	5/16	10
23401-2	2 ga.	3/8	10
23401-2X	2 ga.	½	10
23705	1 ga.	¼	10
23706	1 ga.	5/16	10
23401-3	1 ga.	3/8	10
23401-4	1 ga.	½	10
23707	1/0	¼	5
23708	1/0	5/16	5
23401-5	1/0	3/8	5
23401-6	1/0	½	5
23709	2/0	¼	5
23710	2/0	5/16	5
23401-7	2/0	3/8	5
23401-8	2/0	½	5
23401-9X	3/0	3/8	5
23401-9	3/0	½	5
23401-10X	4/0	3/8	5
23401-10	4/0	½	5
23401-11†	250 MCM	½	5

† Not flared



- Heavy-duty crimp or solder type
- Copper (non-plated)
- AWG identification

Part No.	Cable Size (Ga.)	Stud Size (In.)	Unit
23396	4 ga.	3/8	5
23398-1	1/0	5/16	5
23397-X	1/0 — 2/0	½	5
23405-1	2/0	3/8	5



- Heavy-duty crimp type
- Copper
- Silver brazed barrel seam
- Tin plated
- AWG identification

Part No.	Cable Size	Stud Size (In.)	Unit*
23298-2	4 ga.	¼	25
23298-8	4 ga.	5/16	25
23298-3	4 ga.	3/8	25
23298-4	4 ga.	½	25
23299-2	2 ga.	¼	25
23299-3	2 ga.	5/16	25
23299-4	2 ga.	½	25
23270-1	1/0	¼	2
23270-2	1/0	5/16	2
23270-4	1/0	3/8	2
23397-1	1/0	½	10
23271-1	2/0	¼	2
23271-2	2/0	5/16	2
23271-3	2/0	3/8	2
23397-2	2/0	½	10

Part No.	Cable Size	Stud Size (In.)	Unit*
23272-1	3/0	3/8	2
23272-2	3/0	½	2
23272-3	3/0	¾	2
23274-1	4/0	3/8	2
23274-2	4/0	½	2
23274-3	4/0	¾	2

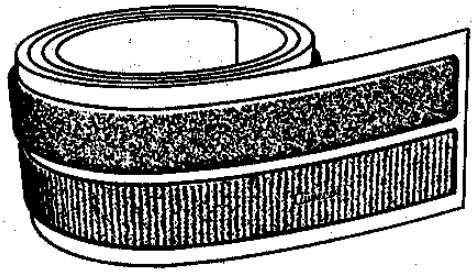
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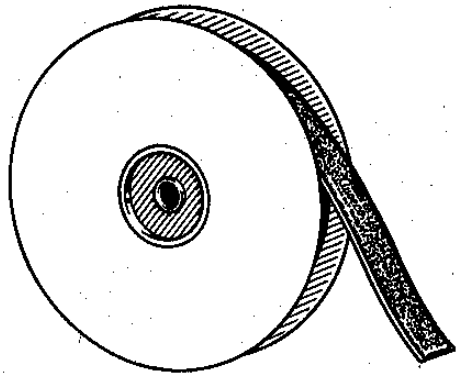
Velcro Hook & Loop Fasteners - Miscellaneous Items

MISCELLANEOUS ITEMS

Velcro Hook And Loop Fasteners

Velcro brand nylon hook and loop fasteners consist of two mating tapes: hook and loop. When the two tapes are pressed together, the hooks engage the loops forming an adjustable, secure and completely jam proof closure. To reopen the closure, simply peel apart.





17181 (Color: Black)
19827 (Color: White)

VelcroStrips
48" long strips of 3/4" wide hook and loop material with adhesive backing on one roll.

UNIT PACKAGE: 1 Roll

17546 (Color: Black)

VelcroStrips
5 yard long strips of 3/4" wide hook and loop material with adhesive backing on one roll.

UNIT PACKAGE: 1 Roll

17182 (Color: Black)

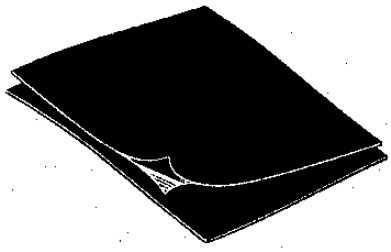
Spooled Velcro Hook Material
25 yard long-spool of 1" wide hook strip with adhesive backing.

UNIT PACKAGE: 1 Spool

17183 (Color: Black)
19829 (Color: White)

Spooled Velcro Loop (Fuzzy) Material
25 yard long spool of 1" wide loop strip with adhesive backing.

UNIT PACKAGE: 1 Spool



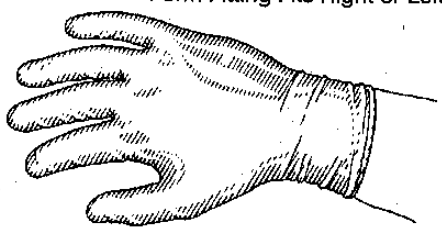
16506

12" x 12" x .060" thick pads with adhesive backs. Can be cut to shape and painted for easy installation. The clear vinyl sheet on the black side must be removed before painting. Meets GM specification #2747M.

UNIT PACKAGE: 6

Gloves

Available In Vinyl Or Latex
Form Fitting Fits Right or Left Hand • Lightly Dusted with Corn Starch • Non-Sterile



Size	Latex Auveco Part No	Vinyl Auveco Part No.
Small	**16005**	----------
Medium	**16006**	----------
Large	**16007**	**19551**

Each size packaged 100 gloves (50 pairs) per box.

Note: Not For Immersion In Chemicals

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Hose Clamps

Hose Clamps

Standard Worm Gear Clamps
Designed for Standard Applications

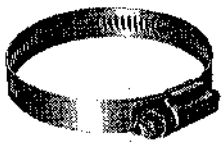


- Meets or exceeds SAE J1508 hose clamp standards
- Stainless steel bank, ½" wide
- Stainless steel, screw housing
- Steel slotted hex head screw w/cadmium plating
- Precision ground slots

Part No.	Mfg. No.	Effective Range Min.	Max.	Unit
24108*	4	¼ (6mm)	⅝ (16mm)	10
C9023*	6	5/16	⅞	10
24110*	6	7/16 (11mm)	25/32 (20mm)	10
24109	6	7/16 (11mm)	25/32 (20mm)	25
24107	8	½ (13 mm)	29/32 (23mm)	10
24111*	8	½ (13 mm)	29/32 (23mm)	10
24112	10	9/16 (14 mm)	1 1/16 (27mm)	10
24113	12	11/16 (17mm)	1¼ (31mm)	10
24114	16	13/16 (21mm)	1½ (38 mm)	10
24115	20	13/16 (21mm)	1¾ (44mm)	10
24116	24	1 1/16 (27mm)	2 (50mm)	10
24117	28	1 5/16 (33mm)	2¼ (56mm)	10
24118	32	1 9/16 (39mm)	2½ (63mm)	10
24119	36	1 13/16 (46 mm)	2¾ (69mm)	10
24120	40	2 1/16 (52mm)	3 (75mm)	10
24121	44	2 5/16 (56mm)	3¼ (81mm)	10
24122	48	2 9/16 (64mm)	3½ (88mm)	10
24123	52	2 13/16 (71 mm)	3¾ (95mm)	10
24124	56	3 1/16 (77mm)	4 (100mm)	10
24125	60	3 5/16 (81mm)	4¼ (106mm)	10
24127	64	3 9/16 (89mm)	4½ (113mm)	10
24127-1	72	4 1/16 (102mm)	5 (125mm)	10
24127-3	80	4⅝ (118mm)	5½ (140mm)	10
24127-6	88	5 1/16 (128mm)	6 (150mm)	10
24127-7	96	5 9/16 (141mm)	6½ (165mm)	10
24127-8	104	6 3/16 (156mm)	7 (175mm)	10

* Micro/Mini style clamp — lighter construction

All Stainless Steel Worm Gear Clamps
Designed for Applications where Corrosion is a Concern



- Meets SAE J1508 hose clamp standards
- Stainless steel bank, ½" wide
- Stainless steel, screw housing
- 400 series stainless steel slotted hex head screw — magnetic
- Precision ground slots

Part No.	Mfg. No.	Effective Range Min.	Max.	Unit
24128*	4	¼ (6mm)	⅝ (16mm)	10
KP79950*	6	7/16 (11mm)	25/32 (20mm)	10
24135	8	½ (13 mm)	29/32 (23mm)	10
KP79951	10	9/16(14mm)	1 1/16 (27mm)	10
KP79952	12	11/16(17mm)	1¼(31mm)	10
KP79954	20	13/16(21mm)	1¾(44mm)	10
C89121	24	1 1/16	2	10
KP79955	16	13/16(21mm)	2¼(56mm)	10
KP79957	40	2 1/16(52mm)	3(75mm)	10
KP79956	32	1 9/16(39mm)	2½(63mm)	10
KP82799	24	1 1/16(27mm)	2(50mm)	10
24138	36	1 13/16 (46 mm)	2¾ (69mm)	10
24138-1	44	2 5/16 (59mm)	3¼ (83mm)	10
KP79958	48	2 9/16(65mm)	3½(89mm)	10
24139-1	52	2 13/16 (71 mm)	3¾ (95mm)	10
24140	56	3 1/16 (78mm)	4 (102mm)	10
24140-1	60	3 5/16 (84mm)	4¼ (108mm)	10
24141	64	3 9/16 (91mm)	4½ (114mm)	10
24141-1	72	4 1/16 (102mm)	5 (125mm)	10
24142	80	4⅝ (118mm)	5½ (140mm)	10
24142-1	88	5 1/16 (128mm)	6 (150mm)	10
24143	96	5 9/16 (141mm)	6½ (165mm)	10
24143-1	104	6 3/16 (156mm)	7 (175mm)	10

* Micro/Mini style clamp — lighter construction

All Stainless Steel/High Torque Worm Gear Clamps
Designed for Applications Where Corrosion & High Pressure Are a Concern



- Stainless steel band
- Stainless steel, screw housing
- Stainless steel slotted hex had screw
- Extra high screw head — permits tightening with open end or socket wrenches
- Extra long screw length — allows eight screw threads to be engaged at once; for high torque drive and vibration resistance
- Precision ground slots

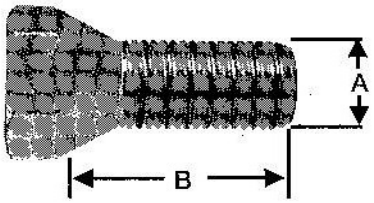
Part No.	Effective Range Min.	Max.	Unit
24101	1¾ (45mm)	2⅝ (66mm)	10
24102	2¼ (57mm)	3⅛ (80mm)	10
24103	2¾ (70mm)	3⅝ (92mm)	10
24104	3¼ (83mm)	4⅛ (107mm)	10
24105	4¼ (108mm)	5⅛ (130mm)	10
24106	5¼ (133mm)	6⅛ (155mm)	10

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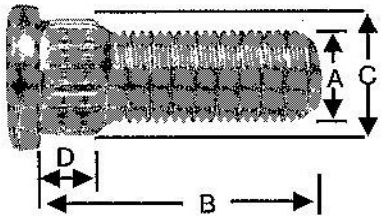
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WHEEL STUDS & BOLTS



Type #1



Type #2

Plated • Grade 8 Steel

UNIT PACKAGE: 10

Auveco No.	Type	Diameter (A)	Length (B)	Knurl Dia. (C)	Shoulder Length (D)	Application
14225	1	1/2"-20	1.070"/1.100"	N/A	N/A	Universal (3/4" Hex)
14226	1	9/16"-18	1.070"/1.100"	N/A	N/A	Universal (3/4" Hex)
14227	2	1/2"-20	1.510"/1.540"	.618"/.628"	.310"/.330"	GM 76-55: Int. 80-67
14228	2	7/16"-20	1.380"/1.410"	.556"/.566"	.300"/.320"	GM 51-On
14231	2	1/2"-20	1.615"/1.635"	.618"/.628	.440"/.460"	Ford 62-On
14235	2	1/2"-20	1.620"/1.650"	.618"/.628"	.630"/.650"	Dodge Tk 82-69; Ford 72-65; GMC 70-60
14237	2	1/2"-20	1.435/1.465"	.556"/.566"	.420"/.440"	Ford 75-73
14241	2	7/16"-20	1.470"/1.500"	.460"/.470"	.333"/.343"	Chrysler 76-64; GM 84-62; Jeep 82-74
14243	2	1/2"-20	1.665"/1.695	.618"/.628"	.720"/.750"	AMC 76-75; Chrysler 86-74
14244	2	1/2"-20	1.720"/1.750"	.615"/.625"	.445"/.460"	Ford 75-On
14250	2	12mm-1.5	41.3/42.0mm	12.57/12.83mm	9.4/9.7mm	GM 79-On

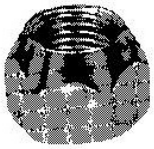
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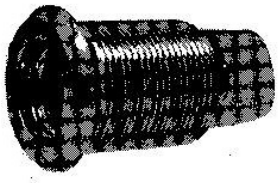
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Wheel Nuts

WHEEL NUTS



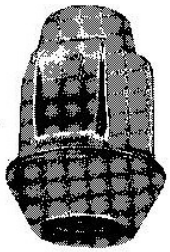
Type 1 (Outer)



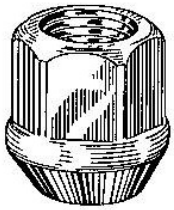
Type 2 (Inner)



Type 3
(Stainless Steel Cap)



Type 4
(Stainless Steel Cap)



Type 5



Type 6
(Stainless Steel Cap)

Part No.	Unit Pkg.	Type	Size	Height	Hex	O.E.M. No.
8742	50	1	1/2"-20	9/16"	3/4"	Chrys: 2409826
8744	50	1	1/2"-20	5/8"	13/16"	GM: 413945, Ford: C0AZ-1012A
8746	50	1	7/16"-20	9/16"	3/4"	GM: 516637, Chrys: 2072728
11715	5	3	1/2"-20	1-1/16"	13/16"	GM: 414187
12520	5	2	3/4"-16 L.H. (Inner) 1-1/8"-16 L.H. (Outer)	2-7/32"	13/16" Sq.	Budd: 10709
12521	5	1	1-1/8"-16 L.H.	7/8"	1-1/2"	Budd: 37892
12522	5	2	3/4"-16 (Inner) R.H. 1-1/8"-16 (Outer) R.H.	2-7/32"	13/16" Sq.	Budd: 10708
12523	5	1	1-1/8"-16	7/8"	1-1/2"	Budd: 37891
12524	5	1	3/4"-16 L.H.	7/8"	1-1/2"	Budd: 37889
12525	5	1	3/4"-16	7/8"	1-1/2"	Budd: 37888
12617	5	5	12mm-1.5	23mm	19mm	Chrys: 6500092
12675	25	1	12mm-1.5	14mm	19mm	GM: 9590477
12695	5	4	12mm-1.5	34mm	19mm	GM: 10018202
12715	10	1	12mm-1.5	14mm	19mm	Chrys: 6500526
14253	10	1	12mm-1.25	16mm	21mm	Nissan: 40224-21001
17353	5	6	12mm-1.5	30mm	19mm	Chry: 6502738
18163	5	4	1/2"-20	1-11/32"	3/4"	Chrys: J4006956
19168	10	6	7/16"-20	1-3/32"	3/4"	GM: 414188, 9591855

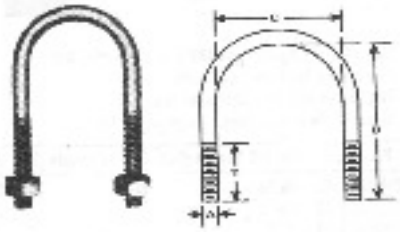
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Round Bend U Bolts

Round Bend U-Bolts



- Meets ASTM B633, and FE/ZN5 plating specifications
- C1010 cold drawn steel
- MC2A rolled threads
- Zinc plated
- Includes two (2) SAE J995 Grade 2 hex nuts
- For steel or wrought iron pipe
- Ideal for hanging pipe and joists, securing scaffolding, and reinforcements

U-Bolt Part No.	Dia. - TPI A (In.)	C (In.)	B (In.)	T (In.)	Pipe Size (In.)	Unit
38750	5/16-24	5/8	1 1/16	3/8	1/8	5
38751	5/16-24	5/8	1 1/16	3/8	1/8	5
*38752	5/16-24	5/8	1 1/16	3/8	1/8	10
C32811	5/16-24	5/8	2 9/16	2	1/8	5
38753	5/16-24	1	1 3/16	1	1/4	5
KP26053	5/16-24	1	2 9/16	1 1/4	1/4	10
38754	3/8-24	1 1/16	2	1	3/8	5
KP26054	3/8-24	1 1/16	2 1/16	1 1/16	3/8	10
*38755	3/8-24	1 1/16	2 1/16	1 1/16	3/8	10
C32812	3/8-24	1 1/16	2 3/16	1 1/16	1	5
38756	3/8-24	1 1/4	2 3/16	1 1/16	1	5
38757	3/8-24	1 1/16	3	1 1/16	1 1/4	5
38758	3/8-24	2	3 1/16	1 1/16	1 1/2	5

U-Bolt Part No.	Dia. - TPI A (In.)	C (In.)	B (In.)	T (In.)	Pipe Size (In.)	Unit
38759	5/16-18	1	2 3/16	1 1/16	1/2	5
*38760	5/16-18	1 1/4	2 3/16	1	3/4	10
38761	5/16-18	1 1/16	2 1/16	1	1	5
C32813	5/16-18	1 1/16	2 1/16	1 1/4	1	5
*38762	5/16-18	1 1/16	2 1/16	1	1	10
38763	5/16-18	1 1/16	2 1/16	1 1/16	1 1/16	5
C32814	5/16-18	1 1/16	4	1 1/16	1 1/16	5
C4398	5/16-18	1 1/16	4 3/16	2 1/16	1 1/4	5
38764	5/16-18	2	2 3/16	1	1 1/2	5
KP26061	5/16-18	2	4 1/16	3	1 1/4	10
38765	3/8-18	2 1/16	3 1/16	1	2	5
C4399	3/8-18	2 1/16	3 1/16	1 1/4	2	5
C94191	3/8-18	2 1/16	5	2 1/16	2	5
38766	3/8-18	3	3 1/16	1	2 1/2	5

U-Bolt Part No.	Dia. - TPI A (In.)	C (In.)	B (In.)	T (In.)	Pipe Size (In.)	Unit
*38767	7/16-14	1	2 1/16	1 1/4	3/4	10
38768	7/16-14	1 1/16	2 1/16	1 1/16	1	2
38769	7/16-14	1 1/2	2 1/2	1 1/16	1	2
38770	7/16-14	1 3/4	2 3/4	1 1/16	1 1/4	2
38771	7/16-14	2	2 3/4	1 1/16	1 1/2	2
C32817	7/16-14	2	3 1/4	1 1/16	1 1/2	5
38772	7/16-14	2 1/2	3 1/2	1 1/4	2	2
C32818	7/16-14	2 1/2	3 1/2	1 3/4	2	5
38773	7/16-14	3	3 1/2	1 1/4	2 1/2	2

U-Bolt Part No.	Dia. - TPI A (In.)	C (In.)	B (In.)	T (In.)	Pipe Size (In.)	Unit
C32819	1/2-13	3	4 1/16	1 1/16	2 1/2	5
38774	1/2-13	3 1/2	4 1/16	1 1/16	3	2
C95608	1/2-13	3 1/2	4 1/16	2	3	5

U-Bolt Part No.	Dia. - TPI A (In.)	C (In.)	B (In.)	T (In.)	Pipe Size (In.)	Unit
38775	1/2-13	3	4 1/16	1 1/16	2 1/2	2
38776	1/2-13	3 1/2	5	1 1/16	3	2
38777	1/2-13	4	5 1/2	1 1/16	3 1/2	2
38778	1/2-13	4 1/16	6	1 1/16	4	2
*38779	1/2-13	5 1/16	7 1/4	2	5	2
*38780	1/2-13	6 1/16	8 1/16	2	6	2
*38781	1/2-13	8 1/16	10 1/16	2	8	2

U-Bolt Plates



- Low carbon cold rolled steel
- Zinc plated
- Rounded edges
- Plate holes are punched "on centers" of corresponding size U-Bolt
- Plate dimensions for U-Bolt diameters:
  5/16" and 3/8" — .078" gauge, 1.50" width
  7/16" and 1/2" — .109" gauge, 1.000" width

Plate Part No.	Dia. - TPI A (In.)	Pipe Size (In.)	U-Bolt Part No.	Unit
38750-1	5/16-24	1/8	38750	5
38751-1	5/16-24	1/8	38751	5
*38752-1	5/16-24	1/8	*38752	10
38753-1	5/16-24	1/4	38753	5
38754-1	3/8-24	3/8	38754	5
*38755-1	3/8-24	3/8	*38755	10
38756-1	3/8-24	1	38756	5
38757-1	3/8-24	1 1/4	38757	5
38758-1	3/8-24	1 1/2	38758	5

Plate Part No.	Dia. - TPI A (In.)	Pipe Size (In.)	U-Bolt Part No.	Unit
38759-1	5/16-18	1/2	38759	5
38761-1	5/16-18	1	38761	5
38763-1	5/16-18	1 1/4	38763	5
38764-1	5/16-18	1 1/2	38764	5
38765-1	5/16-18	2	38765	5
38766-1	5/16-18	2 1/2	38766	5

Plate Part No.	Dia. - TPI A (In.)	Pipe Size (In.)	U-Bolt Part No.	Unit
38768-1	7/16-14	3/4	38768	2
38769-1	7/16-14	1	38769	2
38770-1	7/16-14	1 1/4	38770	2
38771-1	7/16-14	1 1/2	38771	2
38772-1	7/16-14	2	38772	2
38773-1	7/16-14	2 1/2	38773	2
38774-1	7/16-14	3	38774	2

Plate Part No.	Dia. - TPI A (In.)	Pipe Size (In.)	U-Bolt Part No.	Unit
38775-1	1/2-13	2 1/2	38775	2
38776-1	1/2-13	3	38776	2
38777-1	1/2-13	3 1/2	38777	2
38778-1	1/2-13	4	38778	2

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Machinery Eye Bolts

MACHINERY EYE BOLTS

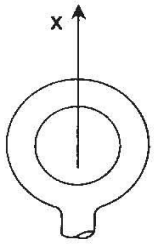
Maximum blank lengths, either pattern indicated in column (1). Vertical loads are based on a safety factor of 5 to 1. Variation in quantity: on special items we reserve the right to a maximum 10% variation for allowances in manufacture.

Standard Shank Lengths – Plain & Shoulder Pattern

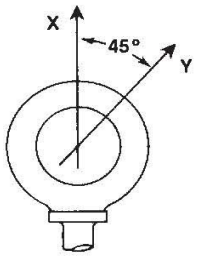
Stock Numbers		Dimensions – Inches						
Plain Pattern	Shoulder Pattern	Shank		Eye		Overall Length Plain	Overall Length Shoulder	Maximum Lengths (1)
		Dia. & Thread	Length	I.D.	O.D.			
1	21	1/4"-20	1"	3/4"	1-1/4"	2-1/4"	2-3/8"	3"
2	22	5/16"-18	1-1/8"	7/8"	1-1/2"	2-5/8"	2-3/4"	4"
3	23	3/8"-16	1-1/4"	1"	1-21/32"	2-29/32"	3-1/4"	4-1/2"
4	24	7/16"-14	1-3/8"	1-3/32"	1-27/32"	3-7/32"	3-5/8"	4-1/2"
5	25	1/2"-13	1-1/2"	1-3/16"	2-1/16"	3-9/16"	4"	4-1/2"
6	26	9/16"-12	1-5/8"	1-9/32"	2-9/32"	3-29/32"	4-1/2"	4-1/2"
7	27	5/8"-11	1-3/4"	1-3/8"	2-1/2"	4-1/4"	4-7/8"	4-1/2"
8	28	3/4"-10	2"	1-1/2"	2-13/16"	4-13/16"	5-1/4"	5"
9	29	7/8"-9	2-1/4"	1-11/16"	3-1/4"	5-1/2"	6"	5"
10	30	1"-8	2-1/2"	1-13/16"	3-9/16"	6-1/16"	7"	5"
11	31	1-1/8"-7	2-3/4"	2"	4"	6-3/4"	7-1/2"	2-3/4"
12	32	1-1/4"-7	3"	2-3/16"	4-7/16"	7-7/16"	8-1/2"	3"
14	34	1-1/2"-6	3-1/2"	2-1/2"	5-3/16"	8-11/16"	9-1/2"	3-1/2"

Working load limits for eye bolts are based on a straight vertical lift in a gradually increasing manner. Angular lifts will significantly lower working load limits (see Shoulder Pattern) and should be avoided whenever possible. If an angular lift is required, a properly seated Shoulder Pattern eye bolt must be used. Loads should always be applied to eye bolts in the plane of the eye, not at an angle to this plane. Angular lifts must never be more than a 45° pull.

Diameter and Thread	Working Load Limit	
	Straight Pull (X)	45° Pull (Y) Shoulder Only
1/4"-20	500	125
5/16"-18	900	225
3/8"-16	1400	350
7/16"-14	2000	500
1/2"-13	2600	650
9/16"-12	3200	750
5/8"-11	4000	1000
3/4"-10	6000	1500
7/8"-9	7000	1750
1"-8	9000	2250
1-1/8"-7	12000	2500
1-1/4"-7	15000	3750
1-1/2"-6	21000	4900



Plain Pattern



Shoulder Pattern

ANGULAR LIFTS SHOULD BE AVOIDED WHENEVER POSSIBLE.



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MACHINERY EYE BOLTS

Drop forged steel. Heat treated after forging. Self-colored, zinc plated, or hot galvanized. Plain or shoulder type, blank or threaded. Threaded will be supplied unless otherwise specified.



Available in Zinc Plated and Hot Galvanized.

Some sizes available in Stainless Steel.

Available in Metric

Standard Shank Lengths
Plain Pattern

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Threaded Part No.	Threaded Weight Per 100	Blank Part No.	Blank Weight Per 100
1	1/4"	1"	11605 3	5	11005 1	5.5
2	5/16"	1-1/8"	11625 1	10.5	11025 9	11.5
3	3/8"	1-1/4"	11645 9	15.5	11045 7	16.5
4	7/16"	1-3/8"	11665 7	20.5	11065 5	22
5	1/2"	1-1/2"	11685 5	33	11085 3	35
6	9/16"	1-5/8"	11705 0	44.5	11105 8	45
7	5/8"	1-3/4"	11725 8	64	11125 6	66
8	3/4"	2"	11748 7	90.5	11148 5	97
9	7/8"	2-1/4"	11768 5	135	11168 3	142
10	1"	2-1/2"	11788 3	190.5	11188 1	199
11	1-1/8"	2-3/4"	11808 8	299.5	11208 6	312
12	1-1/4"	3"	11831 6	399	11231 4	412
14	1-1/2"	3-1/2"	11851 4	662.5	11251 2	691





Standard Shank Lengths
Shoulder Pattern

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Threaded Part No.	Threaded Weight Per 100	Blank Part No.	Blank Weight Per 100
21	1/4"	1"	12805 6	6	12205 4	6
22	5/16"	1-1/8"	12825 4	10	12225 2	10.5
23	3/8"	1-1/4"	12845 2	16	12245 0	17
24	7/16"	1-3/8"	12865 0	26.5	12265 8	28
25	1/2"	1-1/2"	12885 8	38	12285 6	39
26	9/16"	1-5/8"	12905 3	49	12305 1	52.5
27	5/8"	1-3/4"	12925 1	73.5	12325 9	76.5
28	3/4"	2"	12948 0	99.5	12348 8	104
29	7/8"	2-1/4"	12968 8	172.5	12368 6	178
30	1"	2-1/2"	12988 6	235	12388 4	242
31	1-1/8"	2-3/4"	13008 0	342.5	12408 9	347
32	1-1/4"	3"	13031 8	462.5	12431 7	485
34	1-1/2"	3-1/2"	13051 6	752.5	12451 5	780

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Machinery Eye Bolts

PLATED MACHINERY EYE BOLTS

ZINC PLATED

PLAIN PATTERN – ZINC

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
1	1/4"	1"	26005 3
2	5/16"	1-1/8"	26008 4
3	3/8"	1-1/4"	26011 4
4	7/16"	1-3/8"	26014 5
5	1/2"	1-1/2"	26017 6
6	9/16"	1-5/8"	26020 6
7	5/8"	1-3/4"	26023 7
8	3/4"	2"	26026 8
9	7/8"	2-1/4"	26029 9
10	1"	2-1/2"	26032 9
11	1-1/8"	2-3/4"	26035 0
12	1-1/4"	3"	26038 1
14	1-1/2"	3-1/2"	26041 1

SHOULDER PATTERN – ZINC

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
21	1/4"	1"	26050 3
22	5/16"	1-1/8"	26053 4
23	3/8"	1-1/4"	26056 5
24	7/16"	1-3/8"	26059 6
25	1/2"	1-1/2"	26062 6
26	9/16"	1-5/8"	26065 7
27	5/8"	1-3/4"	26068 8
28	3/4"	2"	26071 8
29	7/8"	2-1/4"	26074 9
30	1"	2-1/2"	26077 0
31	1-1/8"	2-3/4"	26080 0
32	1-1/4"	3"	26083 1
34	1-1/2"	3-1/2"	26086 2







HOT GALVANIZED

PLAIN PATTERN – GALVANIZED

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
1	1/4"	1"	26105 0
2	5/16"	1-1/8"	26108 1
3	3/8"	1-1/4"	26111 1
4	7/16"	1-3/8"	26114 2
5	1/2"	1-1/2"	26117 3
6	9/16"	1-5/8"	26120 3
7	5/8"	1-3/4"	26123 4
8	3/4"	2"	26126 5
9	7/8"	2-1/4"	26129 6
10	1"	2-1/2"	26132 6
11	1-1/8"	2-3/4"	26135 7
12	1-1/4"	3"	26138 8
14	1-1/2"	3-1/2"	26141 8

SHOULDER PATTERN – GALVANIZED

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
21	1/4"	1"	26155 5
22	5/16"	1-1/8"	26158 6
23	3/8"	1-1/4"	26161 6
24	7/16"	1-3/8"	26164 7
25	1/2"	1-1/2"	26167 8
26	9/16"	1-5/8"	26170 8
27	5/8"	1-3/4"	26173 9
28	3/4"	2"	26176 0
29	7/8"	2-1/4"	26179 1
30	1"	2-1/2"	26182 1
31	1-1/8"	2-3/4"	26185 2
32	1-1/4"	3"	26188 3
34	1-1/2"	3-1/2"	26191 3

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MACHINERY EYE BOLTS

Variation in quantity: on special items we reserve the right to a maximum 10% variation for allowances in manufacture.



Special Shank Lengths Plain Pattern

Bolt Diameter N.C.	Special Shank Length	Threaded Part No.	Threaded Weight Per 100	Blank Part No.	Blank Weight Per 100
1/4"	2"	116084	6	110082	8
1/4"	3"	116114	10	110112	14
5/16"	2"	116282	12	110280	14
5/16"	3"	116312	14	110310	16
5/16"	4"	116343	14	110341	18
3/8"	2"	116480	16	110488	18
3/8"	3"	116510	18	110518	23
3/8"	4"	116541	22	110549	24
3/8"	4-1/2"	116572	22	110570	26
7/16"	2"	116688	22	110686	24
7/16"	3"	116718	26	110716	30
7/16"	4"	116749	30	110747	34
7/16"	4-1/2"	116770	30	110778	36
1/2"	2"	116886	32	110884	34
1/2"	3"	116916	38	110914	42
1/2"	4"	116947	42	110945	48
1/2"	4-1/2"	116978	42	110976	50
9/16"	2"	117081	48	111089	52
9/16"	3"	117111	54	111119	60
9/16"	4"	117142	60	111140	68
9/16"	4-1/2"	117173	60	111171	68
5/8"	2"	117289	62	111287	68
5/8"	3"	117319	70	111317	74
5/8"	4"	117340	74	111348	86
5/8"	4-1/2"	117371	76	111379	90
3/4"	3"	117517	96	111515	120
3/4"	4"	117548	104	111546	126
3/4"	4-1/2"	117579	108	111577	144
3/4"	5"	117609	132	111607	154
7/8"	3"	117715	188	111713	196
7/8"	4"	117746	202	111744	218
7/8"	4-1/2"	117777	210	111775	224
7/8"	5"	117807	218	111805	230
1"	3"	117913	210	111911	232
1"	4"	117944	230	111942	254
1"	4-1/2"	117975	236	111973	264
1"	5"	118002	254	112000	276



Special Shank Lengths Shoulder Pattern

Bolt Diameter N.C.	Special Shank Length	Threaded Part No.	Threaded Weight Per 100	Blank Part No.	Blank Weight Per 100
1/4"	2"	128087	8	122085	10
1/4"	3"	128117	10	122115	12
5/16"	2"	128285	12	122283	14
5/16"	3"	128315	14	122313	16
5/16"	4"	128346	16	122344	18
3/8"	2"	128483	20	122481	22
3/8"	3"	128513	22	122511	24
3/8"	4"	128544	24	122542	28
3/8"	4-1/2"	128575	26	122573	28
7/16"	2"	128681	26	122689	30
7/16"	3"	128711	30	122719	32
7/16"	4"	128742	34	122740	36
7/16"	4-1/2"	128773	36	122771	38
1/2"	2"	128889	40	122887	42
1/2"	3"	128919	44	122917	46
1/2"	4"	128940	46	122948	50
1/2"	4-1/2"	128971	48	122979	52
9/16"	2"	129084	48	123082	52
9/16"	3"	129114	52	123112	58
9/16"	4"	129145	58	123143	60
9/16"	4-1/2"	129176	60	123174	68
5/8"	2"	129282	74	123280	80
5/8"	3"	129312	82	123310	86
5/8"	4"	129343	90	123341	102
5/8"	4-1/2"	129374	92	123372	104
3/4"	3"	129510	116	123518	126
3/4"	4"	129541	130	123549	140
3/4"	4-1/2"	129572	132	123570	146
3/4"	5"	129602	138	123600	154
7/8"	3"	129718	186	123716	198
7/8"	4"	129749	202	123747	218
7/8"	4-1/2"	129770	208	123778	226
7/8"	5"	129800	216	123808	232
1"	3"	129916	254	123914	270
1"	4"	129947	266	123945	290
1"	4-1/2"	129978	280	123976	304
1"	5"	130004	290	124003	318

Additional special shank lengths available upon request.



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Machinery Eye Bolts

METRIC MACHINERY EYE BOLTS

Dimensions in Millimeters – Some Sizes Available in Stainless Steel on a Special Basis.

Made in USA

FORGED • CARBON STEEL • SELF-COLORED • SHOULDER PATTERN

Part No.	Metric Size	Approx. Equivalent in Inches	A Thread Size	B Shank Length, mm	C I.D. Eye, mm	Approx. Wt. Per 100 Pcs. in Lbs.	Working Load Limit in Kgs.	Working Load Limit in Lbs.
13805 5	M6	1/4"	M6 x 1.0	25.4	19	6	210	462
13825 3	M7	5/16"	M7 x 1.0	28.5	22	10	370	814
13845 1	M8	3/8"	M8 x 1.25	31.7	25	16	450	992
13865 9	M10	7/16"	M10 x 1.5	35.0	28	21	740	1,628
13885 7	M12	1/2"	M12 x 1.75	38.0	30	38	1,030	2,266
13905 2	M14	9/16"	M14 x 2.0	44.5	35	73	1,600	3,520
13925 0	M16	5/8"	M16 x 2.0	44.5	35	73	1,600	3,520
13948 9	M18	3/4"	M18 x 2.5	51.0	38	104	2,140	4,708
13968 7	M20	7/8"	M20 x 2.5	57.0	43	161	2,860	6,292
13988 5	M24	1"	M24 x 3.0	63.5	46	231	3,850	8,470
14008 9	M27	1-1/8"	M27 x 3.0	70.0	51	335	5,200	11,440
14031 7	M30	1-1/4"	M30 x 3.5	76.0	55	439	6,400	14,080
14051 5	M36	1-1/2"	M36 x 4.0	89.0	63	731	8,970	19,734

DROP FORGED LIFTING EYES

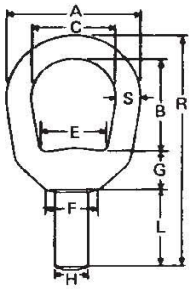
Drop forged from C-1035 steel, heat treated. Available blank or threaded. Self-colored finish is standard; hot galvanized or other finishes supplied on a special basis. Used in lifting applications where larger eyes are required. When ordering prefix stock number with letter "B" (blank) or "T" (threaded) as required. Loads are based on a safety factor of 5 to 1. Working loading limits for lifting eyes are based on a straight vertical lift in a gradually increasing manner, and should never be used for angular lifts.

Made in USA

LIFTING EYES – SELF-COLORED

Stock Number	Bail Size	Blank Part No.	Threaded Part No.	Threaded Working Load Limit
C-186	1/4"	15005 7	15505 2	860
C-187	5/16"	15010 1	15510 6	1260
C-185	3/8"	15015 6	15515 1	2200
C-181	1/2"	15020 0	15520 5	3600
C-184	5/8"	15025 5	15525 0	5200
C-188	3/4"	15030 9	15530 4	7000





Stock Number	Shank		Dimensions – Inches								Thread Length	Weight Per 100	
	H	L	A	C	B	E	F	G	S	R		Blank	Threaded
C-186	5/16"	1"	1-1/4"	3/4"	1-1/16"	19/32"	1/2"	3/8"	1/4"	2-11/16"	7/8"	12	11
C-187	3/8"	1-1/8"	1-5/8"	1"	1-1/4"	3/4"	9/16"	1/2"	5/16"	3-3/16"	1"	22	22
C-185	1/2"	1-1/4"	2"	1-1/4"	1-1/2"	1"	13/16"	5/8"	3/8"	3-3/4"	1-1/8"	41	38
C-181	5/8"	1-1/2"	2-1/2"	1-1/2"	2"	1-3/16"	1"	11/16"	1/2"	4-11/16"	1-3/8"	81	74
C-184	3/4"	1-7/8"	3"	1-3/4"	2-3/8"	1-3/8"	1-1/8"	7/8"	5/8"	5-3/4"	1-3/4"	139	129
C-188	7/8"	2"	3-1/2"	2"	2-5/8"	1-5/8"	1-5/16"	15/16"	3/4"	6-5/16"	1-7/8"	222	214

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276 Special Flat Washers (Lead)



LEAD FLAT WASHERS
(SPECIAL FLAT WASHERS)

PART #	SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	THICKNESS
729475	000	.090	.040	.010
729476	00	.108	.053	.015
729477	0	.156	.062	.020
729478	2	.187	.089	.025
729479	2	.218	.093	.018
729480	2	.250	.093	.020
729481	3	.218	.104	.025
729482	3	.250	.105	.032
729483	4	.250	.125	.032
729484	4	.281	.125	.025
729485	4	.312	.125	.032
729486	4	.375	.125	.040
729487	5	.312	.135	.032
729488	5	.281	.140	.025
729489	5	.328	.140	.032
729490	5	.437	.140	.040
729491	6	.312	.156	.032
729492	6	.375	.156	.032
729493	6	.437	.156	.040
729494	8	.312	.171	.031
729495	8	.343	.171	.032
729496	8	.437	.171	.032
729497	8	.437	.171	.040
729498	8	.375	.174	.032
729499	8	.375	.187	.040
729500	8	.437	.187	.062
729501	8	.500	.187	.040
729502	10	.375	.203	.040
729503	10	.375	.203	.050
729504	10	.406	.203	.040
729505	10	.437	.203	.040
729506	10	.437	.203	.050
729507	10	.437	.203	.062
729508	10	.562	.203	.040
729509	10	.562	.203	.050
729510	10	.625	.203	.050
729511	10	.500	.218	.062
729512	12	.500	.227	.040
729513	12	.500	.227	.050
729514	1/4	.687	.265	.050
729515	1/4	.500	.281	.062
729516	1/4	.625	.281	.050
729517	1/4	.625	.281	.062

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Special Flat Washers (Lead)

PART #	SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	THICKNESS
729518	1/4	.750	.281	.062
729519	9/32	.750	.312	.050
729520	5/16	.625	.343	.062
729521	5/16	.687	.343	.062
729522	5/16	.750	.343	.050
729523	5/16	.750	.343	.062
729524	5/16	.875	.343	.062
729525	3/8	.875	.390	.062
729526	3/8	1.000	.390	.062
729527	3/8	.750	.406	.062
729528	3/8	.812	.406	.062
729529	3/8	.875	.406	.050
729530	3/8	.875	.406	.062
729531	7/16	1.125	.469	.062
729532	7/16	1.125	.469	.078
729533	7/16	1.125	.500	.062
729534	1/2	1.000	.531	.062
729535	1/2	1.062	.531	.093
729536	1/2	1.125	.531	.062
729537	1/2	1.250	.531	.078
729538	1/2	1.250	.531	.093
729539	1/2	1.250	.562	.078
729540	9/16	1.375	.625	.062
729541	9/16	1.375	.625	.078
729542	9/16	1.375	.625	.093
729543	5/8	1.312	.656	.093
729544	5/8	1.500	.687	.078
729545	5/8	1.500	.687	.093
729546	3/4	1.500	.812	.125
729547	3/4	1.750	.812	.109
729548	3/4	1.750	.812	.125
729549	3/4	1.875	.812	.109
729550	3/4	2.000	.812	.125
729551	7/8	1.750	.937	.125
729552	7/8	2.000	.937	.109
729553	7/8	2.000	.937	.125
729554	7/8	2.250	.937	.106
729555	1	2.000	1.062	.125
729556	1	2.250	1.062	.109
729557	1	2.250	1.062	.125
729558	1	2.500	1.062	.125
729559	1-1/2	2.500	1.187	.125
729560	1-1/2	2.750	1.312	.125

SPECIAL ORDER ITEMS. PLEASE CALL FOR PRICING.

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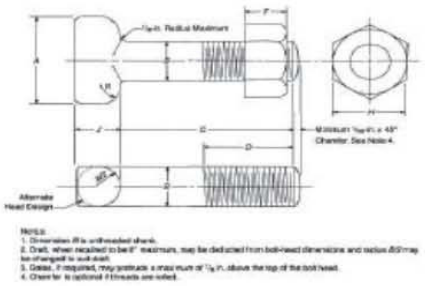
T-Head Bolts w/Nut



T-HEAD BOLTS WITH NUTS

ANSI/AWWA C111/A21.11-07
T-HEAD BOLT INFORMATION

Size	A	B	C	D*	E**	F	H	J	R
in.	+/- 0.05	+ 0.030 - 0.074	+0.25 -0.06		Threads per inch.			+0.15 -0.03	maximum
5/8 X 3	1.50	0.625	3.00	2.00	11	0.625 +/- 0.04	1.062 +0.00 -0.04	0.625	0.312
3/4 X 3 1/2	1.75	0.750	3.50	2.50	10	0.750 +/- 0.06	1.250 +0.00 -0.06	0.750	0.375
3/4 X 4	1.75	0.750	4.00	3.00	10	0.750 +/- 0.06	1.250 +0.00 -0.06	0.750	0.375
3/4 X 4 1/2	1.75	0.750	4.50	3.00	10	0.750 +/- 0.06	1.250 +0.00 -0.06	0.750	0.375
3/4 X 5	1.75	0.750	5.00	3.00	10	0.750 +/- 0.06	1.250 +0.00 -0.06	0.750	0.375
1 X 5 1/2	2.25	1.000	5.50	3.00	8	1.000 +/- 0.08	1.625 +0.00 -0.08	1.000	0.500
1 X 6	2.25	1.000	6.00	3.00	8	1.000 +/- 0.08	1.625 +0.00 -0.08	1.000	0.500
1 1/4 X 6	2.50	1.250	6.00	3.50	7	1.250 +/- 0.08	2.000 +0.00 - 0.08	1.250	0.625
1 1/4 X 6 1/2	2.50	1.250	6.50	3.50	7	1.250 +/- 0.08	2.00 +0.00 -0.08	1.250	0.625



NOTE:
METRIC CONVERSION: IN X 25.4 = MM
*Tolerance: +3, -0 threads
**Number of threads per inch – coarse thread series (ANSI/ASME B1.1), class 2A, external fit UNC2A and class 2B, internal fit UNC2B

ANSI/AWWA C111/A21.11-07
Mechanical Joint T-Head Bolt
Technical Information

Nominal Recommended Pipe Size	Qty	Size	Length	Torque
3	4	5/8	3	45-60
4	4	3/4	3 1/2	75-90
6	6	3/4	3 1/2	75-90
8	6	3/4	4	75-90
10	8	3/4	4	75-90
12	8	3/4	4	75-90
14	10	3/4	4 1/2	75-90
16	12	3/4	4 1/2	75-90
18	12	3/4	4 1/2	75-90
20	14	3/4	4 1/2	75-90
24	16	3/4	5	75-90
30	20	1	6	100-120
36	24	1	6	100-120
42	28	1 1/4	6 1/2	100-120
48	32	1 1/4	6 1/2	100-120
Size and Length are in Inches. Torque is in ft-lbs				

ANSI/AWWA C115/A21.15.05&C110/A21.10.08
Flanged Joint Heavy Hex Bolt
Technical Information

Nominal Recommended Pipe Size	Qty	ASTM A307 Gr. B Size	Length
3	4	5/8	2 1/2
4	8	5/8	3
6	8	3/4	3 1/2
8	8	3/4	3 1/2
10	12	7/8	4
12	12	7/8	4
14	12	1	4 1/2
16	16	1	4 1/2
18	16	1 1/8	5
20	20	1 1/8	5
24	20	1 1/4	5 1/2
30	28	1 1/4	6 1/2
36	32	1 1/2	7
42	36	1 1/2	7 1/2
48	44	1 1/2	8
54	44	1 3/4	8 1/2
60	52	1 3/4	9
64	52	1 3/4	9

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Hex Machine Bolts w/Nut
Hot Dipped Galvanized

HEX MACHINE BOLTS WITH NUTS

Manufactured to ASME B18.2.1 specs.
Tensile Strength – 60,000 psi. min.
Low Carbon Steel Hot Dip Galvanized

PART #	SIZE
729652	1/4-20X1
729653	1/4-20X1-1/4
729654	1/4-20X1-1/2
729655	1/4-20X2
729656	1/4-20X2-1/2
729657	1/4-20X3
729658	1/4-20X3-1/2
729659	1/4-20X4
729660	1/4-20X4-1/2
729661	1/4-20X5
729662	5/16-18X1
729663	5/16-18X1-1/2
729664	5/16-18X2
729665	5/16-18X3
729666	5/16-18X3-1/2
729667	5/16-18X4
729668	5/16-18X4-1/2
729669	5/16-18X5
729670	5/16-18X5-1/2
729671	3/8-16X1
729672	3/8-16X1-1/4
729673	3/8-16X1-1/2
729674	3/8-16X2
729675	3/8-16X2-1/2
729676	3/8-16X3
729677	3/8-16X3-1/2
729678	3/8-16X4
729679	3/8-16X4-1/2
729680	3/8-16X5
729681	3/8-16X6
729682	3/8-16X7
729683	3/8-16X8

PART #	SIZE
729684	1/2-13X1
729685	1/2-13X1-1/4
729686	1/2-13X1-1/2
729687	1/2-13X1-3/4
729688	1/2-13X2
729689	1/2-13X2-1/4
729690	1/2-13X2-1/2
729691	1/2-13X3
729692	1/2-13X3-1/2
729693	1/2-13X4
729694	1/2-13X4-1/2
729695	1/2-13X5
729696	1/2-13X5-1/2
729697	1/2-13X6
729698	1/2-13X6-1/2
729699	1/2-13X7
729700	1/2-13X7-1/2
729701	1/2-13X8
729702	1/2-13X9
729703	1/2-13X10
729704	1/2-13X12
729705	1/2-13X14
729706	5/8-11X1-1/4
729707	5/8-11X1-1/2
729708	5/8-11X1-3/4
729709	5/8-11X2-1/4
729710	5/8-11X2-1/2
729711	5/8-11X2-3/4
729712	5/8-11X3
729713	5/8-11X3-1/2
729714	5/8-11X4
729715	5/8-11X4-1/2
729716	5/8-11X5
729717	5/8-11X6

PART #	SIZE
729718	5/8-11X6-1/2
729719	5/8-11X7
729720	5/8-11X7-1/2
729721	5/8-11X8
729722	5/8-11X9
729723	5/8-11X10
729724	5/8-11X11
729725	5/8-11X12
729726	3/4-10X1-3/4
729727	3/4-10X2
729728	3/4-10X2-1/2
729729	3/4-10X3
729730	3/4-10X3-1/2
729731	3/4-10X4
729732	3/4-10X5
729733	3/4-10X6
729734	3/4-10X6-1/2
729735	3/4-10X7
729736	3/4-10X7-1/2
729737	3/4-10X8
729738	3/4-10X9
729739	3/4-10X10
729740	3/4-10X12
729741	3/4-10X14

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280 Wedge Anchors



WEDGE ANCHORS – 18-8 STAINLESS STEEL

PART #	SIZE	QUANTITY/BOX
729562	1/4" x 1-3/4"	100 per box
729563	1/4" x 2-1/4"	100 per box
729564	1/4" x 3-1/4"	100 per box
729565	5/16" x 2-3/4"	100 per box
729566	5/16" x 3-1/2"	100 per box
729567	3/8" x 2-1/4"	50 per box
729568	3/8" x 2-3/4"	50 per box
729569	3/8" x 3"	50 per box
729570	3/8" x 3-1/2"	50 per box
729571	3/8" x 3-3/4"	50 per box
729572	3/8" x 5"	50 per box
729573	3/8" x 6-1/2"	50 per box
729574	1/2" x 2-3/4"	50 per box
729575	1/2" x 3-3/4"	25 per box
729576	1/2" x 4-1/4"	25 per box
729577	1/2" x 5-1/2"	25 per box
729578	1/2" x 7"	25 per box
729579	1/2" x 8-1/2"	25 per box
729580	1/2" x 10"	25 per box
729581	1/2" x 12"	25 per box
729582	5/8" x 3-1/2"	25 per box
729583	5/8" x 4-1/2"	25 per box
729584	5/8" x 5"	25 per box
729585	5/8" x 6"	25 per box
729586	5/8" x 7"	25 per box
729587	5/8" x 8-1/2"	25 per box
729588	5/8" x 10"	20 per box
729589	5/8" x 12"	20 per box
729590	3/4" x 4-1/4"	20 per box
729591	3/4" x 4-3/4"	20 per box
729592	3/4" x 5-1/2"	20 per box
729593	3/4" x 6-1/4"	20 per box
729594	3/4" x 7"	10 per box
729595	3/4" x 8-1/2"	10 per box
729596	3/4" x 10"	10 per box
729597	3/4" x 12"	10 per box
729598	7/8" x 6"	5 per box
729599	7/8" x 8"	5 per box
729600	7/8" x 10"	5 per box
729601	7/8" x 12"	5 per box
729602	1" x 6"	5 per box
729603	1" x 9"	5 per box
729604	1" x 12"	5 per box
729605	1-1/4" x 9"	5 per box
729606	1-1/4" x 12"	5 per box

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Concrete Anchors - Tapcons



CONCRETE ANCHORS & FASTENERS
(HEX & FLAT TAPCONS)

PART #	SIZE	HEAD STYLE	QUANTITY/BOX
729607	3/16" x 1-1/4"	Hex	100 per bx
729608	3/16" x 1-3/4"	Hex	100 per bx
729609	3/16" x 2-1/4"	Hex	100 per bx
729610	3/16" x 2-3/4"	Hex	100 per bx
729611	3/16" x 3-1/4"	Hex	100 per bx
729612	3/16" x 3-3/4"	Hex	100 per bx
729613	3/16" x 4"	Hex	100 per bx
729614	3/16" x 1-1/4	Flat	100 per bx
729615	3/16" x 1-3/4"	Flat	100 per bx
729616	3/16" x 2-1/4"	Flat	100 per bx
729617	3/16" x 2-3/4"	Flat	100 per bx
729618	3/16" x 3-1/4"	Flat	100 per bx
729619	3/16" x 3-3/4"	Flat	100 per bx
729620	3/16" x 4"	Flat	100 per bx
KP78822	1/4" x 1-1/4"	Hex	100 per bx
984357	1/4" x 1-3/4"	Hex	100 per bx
984358	1/4" x 2-1/4"	Hex	100 per bx
984359	1/4" x 2-3/4"	Hex	100 per bx
729621	1/4" x 3-1/4"	Hex	100 per bx
729622	1/4" x 3-3/4"	Hex	100 per bx
729623	1/4" x 4"	Hex	100 per bx
729624	1/4" x 5"	Hex	100 per box
729625	1/4" x 6"	Hex	100 per box
729626	1/4" x 1-1/4"	Flat	100 per bx
729627	1/4" x 1-3/4"	Flat	100 per bx
729628	1/4" x 2-1/4"	Flat	100 per bx
729629	1/4" x 2-3/4"	Flat	100 per bx
729630	1/4" x 3-1/4"	Flat	100 per bx
729631	1/4" x 3-3/4"	Flat	100 per bx
729632	1/4" x 4"	Flat	100 per bx
729633	1/4" x 5"	Flat	100 per bx
729634	1/4" x 6"	Flat	100 per bx
729635	3/8" x 1-3/4"	Hex	50 per bx
729636	3/8" x 2-1/2"	Hex	50 per bx
729637	3/8" x 3"	Hex	50 per bx
729638	3/8" x 4"	Hex	50 per bx
729639	3/8" x 5"	Hex	25 per bx
729640	1/2" x 2-1/2"	Hex	50 per bx
729641	1/2" x 3"	Hex	25 per bx
729642	1/2" x 4"	Hex	50 per bx
729643	1/2" x 5"	Hex	25 per bx
729644	1/2" x 6"	Hex	20 per bx
729645	5/8" x 3"	Hex	10 per bx
729646	5/8" x 4"	Hex	10 per bx
729647	5/8" x 5"	Hex	10 per bx
729648	5/8" x 6"	Hex	10 per bx
729649	3/4" x 4-1/2"	Hex	10 per bx
729650	3/4" x 5-1/2"	Hex	10 per bx
729651	3/4" x 6-1/4"	Hex	10 per bx

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TOOLS

Hacksaw Blade Frame



7954

UNIT PACKAGE: 1

HACKSAW BLADES



Special Flexible Alloy Steel
Hacksaw Blades
Blade Size 12" x 1/2"
Intended For General Purpose Use In Sawing Mild Steel, Brass, Aluminum, Copper and Similar Metals. Recommended For Hand And Light Power Use.

Part No.	Type	Teeth Per Inch	Pcs. Per Unit
10678	Special Flexible Alloy Steel	18	10 Blades
10679	Special Flexible Alloy Steel	24	10 Blades
10680	Special Flexible Alloy Steel	32	10 Blades

Flexible High Speed Steel
Hacksaw Blades
Blade Size 12" x 1/2"
High Speed Blades Last The Longest And Cut The Hardest Materials. These Blades While Possessing Superior Cutting Qualities Are Flexible To Resist Breaking.

Part No.	Type	Teeth Per Inch	Pcs. Per Unit
10686	Flexible High Speed Steel	18	10 Blades
10687	Flexible High Speed Steel	24	10 Blades
10688	Flexible High Speed Steel	32	10 Blades
10690	Flexible High Speed Steel	18	50 Blades

Blade Selection Chart
Recommended Number Of Teeth Per Inch

Material Thickness	Hard Materials	Soft Materials
Up to 1/8"	32	32
1/8" to 1/4"	24	24
1/4" to 1/2"	24	18
1/2" to 1"	18	14

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Air Products - Brass Hose Barbs

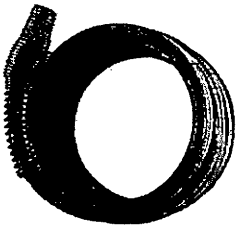
P.V.C. Air Hose With Ends



- Furnished with Brass Male Ends - 1/4 NPT
- Use with air, water or mild chemicals
- Hose rated to 300 psi working pressure
- Far more resistant to oil and gasoline than rubber
- Weighs less than comparable rubber hose

Part No.	Size	NPT	Unit
C93541	⅜ in x 25 ft.	¼	1
C93542	⅜ in x 50 ft.	¼	1

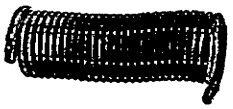
Service Air Hose



- Nylon self-storing air hose with spring guard. Yellow hose.
- Lightweight and permanently coiled; self-retracting hose eliminates dragging
- Withstands working pressures up to 200 psi
- Adaptable for horizontal or overhead installations
- For use with blow guns, nailers, staplers, and other air operated tools

Part No.	Male Pipe Thread (In.)	Length (ft.)	Working Pressure (PSI)	Unit
C84540	¼	25	170	1
C84541	⅜	25	170	1

Nylon Recoil Air Hose



- 360° swivel end fittings with spring guard
- Less than 1% moisture absorption
- Abrasion resistant
- Resistant to most chemicals including alkalies, hydrocarbons, keystones and esters
- Working temperature -20° to +170°F

Part No.	Hose I.D. (In.)	Pipe Thd. (In.)	Max. Working Press. (psi)	Feet Per Roll	Unit
2705N	¼	¼	180	25	1
2705-1	¼	¼	180	50	1
2706N	⅜	⅜	180	25	1
2706-1	⅜	⅜	180	50	1
KP78480	½	½	170	25	1

Low Pressure Hosewhip Assemblies



Part No.	Hose I.D. (In.)	Pipe Thd. (In.)	Length (In.)	Unit
◆CD553057	5/16	⅛	24	1
◆CD553058	5/16	⅛	36	1

◆Canada only

Reusable Fittings For Recoil Air Hose

Includes fitting body, nut, ferrule and spring guard

Rigid Male Pipe



Part No.	Tube I.D. (In.)	N.P.T. Size (In.)	Unit
KP67680	¼	¼	2

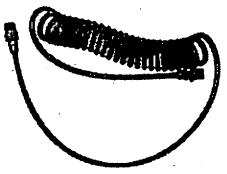
Male Pipe Swivel

Swivels in use



Part No.	Tube I.D. (In.)	N.P.T. Size (In.)	Unit
KP67685	¼	¼	2
KP67686	⅜	⅜	2
KP67687	½	½	2

NoMar™ Polyurethane Self-Coiling Air Hose



- Tough, flexible and kink resistant
- Abrasion and chemical resistant
- Pigtail lengths — 16" swivel end, 8" rigid end
- Working pressure: 125 psi at 73°F
- Minimum burst pressure 375 psi at 73°F
- Color: transparent blue
- Typical applications include: air tools, robotics, vacuum equipment, analytical instrumentation and medical/laboratory
- Reusable ¼" male pipe rigid fitting on one end with ¼" male pipe swivel fitting on other end

Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Pipe Thd. (In.)	Feet Per Roll	Unit
2665	⅛	¼	¼	10	1
2666N	¼	⅜	¼	25	1

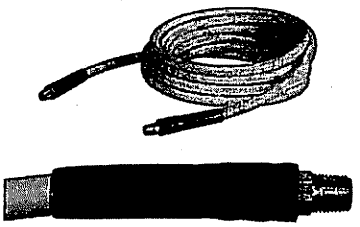
Flexeel, Reinforced Polyurethane Recoil Hose Assemblies



- Flexeel recoil hoses offer exceptional abrasion, oil and chemical resistance with UV stabilizers for outdoor applications
- Features a braided cord reinforcement that permits working pressures of up to 200 P.S.I., well above the limits of standard polyurethane hoses
- Extremely flexible and lightweight; only one third the weight of rubber hoses
- Unlike nylon recoil hoses, polyurethane cannot be permanently damaged by kinking
- Clear, blue color allows for visual inspection of accumulations of oils, moisture and other damaging debris
- Pressure rating: 200 P.S.I.
- Temperature range: -40°F to 165°F
- Hose end fittings: 1/4" NPTF male swivel ends with pre-applied sealant
- ALL UNIT QTY: 1

Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Length (Ft)
KP1868	¼	⅜	3
KP1869	¼	⅜	15
KP1870	¼	⅜	25

Superflex PVC Air Hose



- Constructed of the highest quality PVC, Superflex offers superior oil, chemical and abrasion resistance for unmatched durability and service life
- Extremely lightweight (only about 60% of the weight of comparable rubber hoses) for added maneuverability and reduced user fatigue
- Features factory quality crimped hose ends with strain relievers eliminating premature failure caused by pulling
- High visibility yellow cover is non-marking and improves shop safety
- Hose ends: Brass 1/4" N.P.T.F. male
- Temperature range: 0°-150°F
- Maximum rated pressure: 350 P.S.I.
- ALL UNIT QTY: 1

Part No.	Hose I.D. (In.)	Length (Ft)	Maximum Working Pressure (P.S.I.)
KP76140	⅜	25	350
KP76141	⅜	50	350

Red Rubber Air Hose Assemblies



- Heavy-duty 2-ply construction withstands 250 P.S.I. working pressure
- Each hose length comes complete with 1/4" N.P.T.F. male pipe hose ends attached
- ALL UNIT QTY: 1

Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Pipe Size Fitting	Length (Ft)
KP69745	¼	½	¼	25

Rubber Covered Air Hose



- Use with hose barb or barb-tite fittings
- ALL UNIT QTY: 1

Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Feet
KP66956	½	25/32	400	1600	25
KP77434	¼	½	400	1000	50
KP77435	⅜	⅝	400	1000	50
KP77436	½	25/32	400	1600	50

Red Rubber Hose Whip Assemblies



- Hose Whip Assemblies provide a wider range of motion when used with air-powered tools, reducing user fatigue
- Hose whips act as a shock absorber, dampening pressure surges and extending tool and coupler life
- Features a ball swivel end that provides a 60° range of motion and 360° rotation, improving maneuverability and relieving stresses that damage hoses
- Made of red EPDM rubber with a braided rayon cord reinforcement
- Pressure rating: 250 P.S.I.
- Temperature range: -40°F to 180°F
- Hose end fittings: 1/4" male NPTF ball swivel X 1/4" NPTF female rigid
- ALL UNIT QTY: 1

Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Length (In.)
KP1733	¼	17/32	12
KP1734	¼	17/32	24
KP1735	⅜	21/32	18
KP1736	⅜	21/32	30

Flexeel, Reinforced Polyurethane Hose Whip Assemblies



- Flexeel Hose Whip Assemblies offer all of the same features as Red Rubber Hose Whips with the additional advantages of polyurethane construction
- Offers superior abrasion, chemical and oil resistance with UV stabilizers for outdoor use
- Extremely flexible and lightweight; only one third the weight of rubber hoses
- Braided cord reinforcement allows for a working pressure of 200 P.S.I. well above the range of standard polyurethane hoses
- Clear, blue color allows for visual inspection of accumulations of oils, moisture and other damaging debris
- Pressure rating: 200 P.S.I.
- Temperature range: -40°F to 165°F
- Hose end fittings: 1/4" male NPTF ball swivel X 1/4" NPTF female rigid
- ALL UNIT QTY: 1

Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Length (In.)
KP1737	¼	⅜	12
KP1738	¼	⅜	24
KP1739	⅜	9/16	18
KP1740	⅜	9/16	30

Emergency Air Hose Repair Kit



Complete Kit

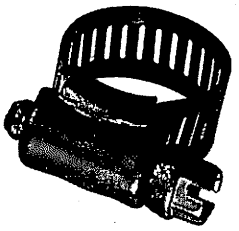
Part No. KP60834

- Kit will allow emergency repair for 3/8" I.D., 3/4" O.D. hose
- Kit contains:

1 - Coupler, Part No. 10973
2 - Clamps, Part No. 24109

- UNIT: 1

Parts for Emergency Air Hose Repair Kit:



Clamp

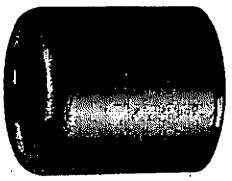
Part No. 24109



Coupler

Part No. 10973

Brass Air Hose Ferrules



- Solid brass ferrules can be easily crimped onto air hoses to form professional, permanent air hose assemblies
- Used with Kar's line of brass hose barb fittings, brass hose ferrules eliminate the need for hose clamps that can damage the hose outer cover and become snagged on objects in the shop
- To select correct ferrule, simply match hose O.D. to closest size ferrule I.D.

Part No.	I.D. (In.)	Length (In.)	Hose Size	Metal Thickness	Unit
KP84158	.450	.718	.328	.025	25
KP84159	.500	.718	.328	.025	25
KP84160	.550	.718	.406	.025	25
KP84161	.600	.968	.453	.025	25
KP84162	.650	.968	.453	.025	25
KP84163	.700	.968	.500	.025	25
KP84164	.750	.968	.500	.025	25
KP84165	.800	.968	.593	.025	25
KP84169	.850	.968	.687	.025	25
KP84170	.900	.968	.750	.025	10
KP84171	.950	.968	.750	.025	10
KP84172	1.000	.968	.875	.040	10

Hose Ferrule Crimping Tool

- Makes professional quality hose assemblies
- Crimps 1/4" single braid hose through 3/8" double braid hose
- Completely self contained
- Made of high strength ductile iron casting with 5 hardened steel ribbed dies
- One hand operation

Directions:
1. Slip ferrule over hose end.
2. Insert hose barb fitting into hose. (Lubricant is recommended for easier assembly)
3. Center ferrule in correct die opening and depress crimping arm fully.
4. Rotate hose 1/4 turn and repeat to finish crimp.



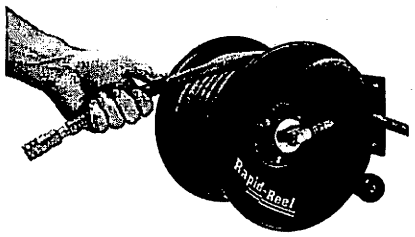
Part No.	Description	Unit
KP84229	Hose ferrule crimping tool	1
KP84230	Optional 7/16" die for welding hose	1
KP84231	Optional 13/16" die for 7/8" O.D. hose	1

Back to Index

Rapid Reel®

Manual Rewind Air Hose Reel

- RAPID REEL® air hose reel provides the perfect solution to hose storage and handling problems
- Manual rewind design; ergonomic handle permits easy, fast rewinding of hose
- Reduces shop hazards and extends air hose life
- Tension brake prevents hose from unrolling itself
- Crushproof drum with stamped steel beveled flanges for maximum durability and storage capacity
- Ready to hook up—comes complete with hose lead with 1/4" male N.P.T.F. end and mounting plate for floor, wall or bench mounting; optional hand caddy stand available separately
- Maximum working pressure: 300 P.S.I.
- Maximum temperature rating: 150°F, 65°C
- Maximum hose capacity: 3/8" I.D., hose-50'; 1/2" I.D., hose-30'



Part No.	Description	Unit
KP1446	Manual rewind air hose reel	1

(Hose not included)

Hand Carry Caddy for RAPID REEL®

- Hand carry caddy provides hose reel portability; great for off-site work, construction sites, etc.
- Tubular steel frame design with cushioned rubber feet for maximum durability and stability

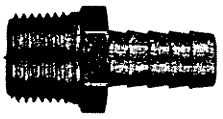


Part No.	Description	Unit
KP1447	Hand carry caddy for rapid reel	1

(Rapid Reel® and hose available separately)

Hose Barb Fittings-Brass

Male Pipe Hose Barb Fittings (Brass)



Part No.	Parker No.	Hose I.D. (In.)	Pipe Thd. (In.)	Unit
KP80657	125HBL-3-2	3/16	1/8	10
11300	125HBL-4-2	1/4	1/8	5
11301	125HBL-4-4	1/4	1/4	5
11302	125HBL-4-6	1/4	3/8	5
11303	125HBL-5-2	5/16	1/8	5
11304	125HBL-5-4	5/16	1/4	5
11305	125HBL-6-2	3/8	1/8	5
11306	125HBL-6-4	3/8	1/4	5
11307	125HBL-6-6	3/8	3/8	5
11307-1	125HBL-6-8	3/8	1/2	5
11308	125HBL-8-4	1/2	1/4	5
11309	125HBL-8-6	1/2	3/8	5
11310	125HBL-8-8	1/2	1/2	5
11311	125HBL-8-12	1/2	3/4	5
11312	125HBL-10-6	5/8	3/8	5
11313	125HBL-10-8	5/8	1/2	5
C23884	125HBL-10-12	5/8	3/4	5
11314	125HBL-12-8	3/4	1/2	5
11315	125HBL-12-12	3/4	3/4	5
11316	125HBL-16-6	1	3/4-14	5
11317	125HBL-16-16	1	1- 11 1/2	5

Swivel Male Barbed Insert (Brass)



Part No.	Parker No.	Hose I.D. (In.)	Pipe Thd. (In.)	Unit
2748	125HBL2V-4-4	1/4	1/4	5
2748-1	125HBLSV-6-4	3/8	1/4	25
2750	125HBLSV-6-6	3/8	3/8	5
2750-1	—	1/2	1/4	25

Female Pipe Hose Barb Fittings (Brass)



Part No.	Parker No.	Hose I.D. (In.)	Pipe Thd. (In.)	Unit
11320	126HBL-4-2	1/4	1/8	5
11321	126HBL-4-4	1/4	1/4	5
11322	126HBL-5-4	5/16	1/4	5
11323	126HBL-6-2	3/8	1/8	5
11324	126HBL-6-4	3/8	1/4	5
11325	126HBL-6-6	3/8	3/8	5
11326	126HBL-8-6	1/2	3/8	5
11327	126HBL-8-8	1/2	1/2	5

Hose Barb Fitting

Hose Barb to Female Ball End Swivel

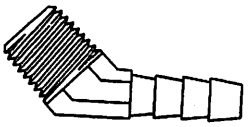
Brass



Part No.	Parker No.	Hose ID (In.)	Female Pipe Thd. (In.)	Unit
701000	128HBLSV-4-4	1/4	1/4-18	5
701001	128HBLSV-5-4	5/16	1/4-18	5
701002	128HBLSV-6-4	3/8	1/4-18	5
701003	128HBLSV-6-6	3/8	3/8-18	5
701004	128HBLSV-8-8	1/2	1/2-14	5

Hose Barb Fittings

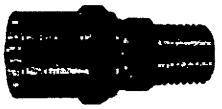
Male Pipe Rigid, 45° Elbow



- Brass

Part No.	Parker No.	Hose I.D. Size (In.)	Pipe Thread (In.)	Unit
11335	139HB-4-2	1/4	1/8	5
11336	139HB-4-4	1/4	1/4	5
11337	139HB-6-4	3/8	1/4	5

Reusable Hose Fittings (Brass)



Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Pipe Thd. (In.)	Unit
2741	1/4	5/8	1/4	5
2742	3/8	3/4	1/4	5

Polyurethane Air Hose Coils



- Kink resistant—polyurethane tubing cannot be permanently kinked
- Has excellent memory—even after being stretched, it snaps back to its original compact size
- Lasts up to 10 times longer than nylon coils
- Light and flexible
- Made in the U.S.A.
- Temperature -40°F to 180°F
- All hoses are complete with 1/4" N.P.T. swivel fittings
- ALL UNIT QTY: 1

Continued on next page

Continued from previous page

Part No.	Tube O.D. (In.)	Tube I.D. (In.)	Length (Ft)	Working Pressure At 75°F	At 100°F	At 125°F
KP84285	¼	.160	3	125	100	80
KP84114	¼	.160	15	125	100	80
KP84115	¼	.160	25	125	100	80
KP84286	⅜	.250	3	125	100	90
KP84116	⅜	.250	15	125	100	90
KP84117	⅜	.250	25	125	100	90

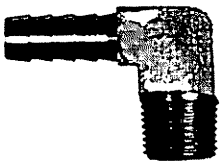
Reusable Fittings For Polyurethane Air Hose Coils



Male Pipe Swivel

Part No.	Tube O.D. (In.)	Tube I.D. (In.)	Pipe Size (In.)	Coupler Body Size (In.)	Unit
KP84395	⅜	.250	¼	—	2

Male Pipe Rigid 90° Elbow



Part No.	Parker No.	Hose I.D. (In.)	Pipe Thd. (In.)	Unit
11594	129HB-4-2	¼	⅛	5
11595	129HB-4-4	¼	¼	5
11596	129HB-6-4	⅜	¼	5
11597	129HB-6-6	⅜	⅜	5
11598	129HB-8-6	½	⅜	5

Barbed Hose Couplers (Brass)



Part No.	Parker No.	Hose I.D. (In.)	Unit
10970	122HBL-3	3/16	5
10971	122HBL-4	¼	5
10972	122HBL-5	5/16	5
10973	122HBL-6	⅜	10
10974	122HBL-8	½	5

Reusable Hose Splicer (Brass)



Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Unit
2746	¼	½	5
2747	¼	⅝	5
2749	⅜	¾	5

Low Pressure Hydraulic Hose

Industry Dash Numbers for Hose Sizes									
Actual I.D.	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	
Low Pressure Hose/ Standard Dash No.	-3	-4	-5	-6	-8	-10	-12		

Industry Dash Numbers for Hose Sizes								
Actual I.D.	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 13/16	2
Low Pressure Hose/ Standard Dash No.		-16		-20		-24		-32

- S.A.E. 100R6
- Tube: Buna-N, black, specially compounded, synthetic rubber
- Reinforcement: one fiber braid
- Cover: black, neoprene, oil and abrasion resistant, synthetic rubber
- Temperature range: -40°F to 200°F
- Most commonly used for flexible fuel, oil filter and power steering return lines
- Resistant to gasoline, oil, grease and other petroleum products, common hydraulic fluids, air and water
- ALL UNIT QTY: 1 - 25 ft. roll



Part No.	Weather-head No.	Hose I.D. (In.)	Hose O.D. (In.)	Working Pressure (P.S.I.)	Min. Burst Pressure (P.S.I.)	Min. Bend Radius (In.)
KP66953	H00904	¼	.50	400	1600	2.5
KP66954	H00905	5/16	.56	400	1600	3
KP66955	H00906	⅜	.63	400	1600	3
KP66956*	H00908	½	25/32	400	1600	4

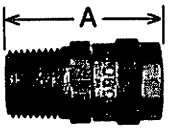
* Can be used as fuel line

Reusable Brass Hose Ends

- For use with SAE 100R6 low pressure hose
- UNIT: 4

Male Pipe Rigid

- UNIT: 4



Part No.	Weatherhead No.	Hose I.D. (In.)	Pipe Size (In.)	Thread Size (In.)	Approx. A (In.)
KP76668	00904B-104	¼	¼	¼-18	1⅜

Brass Fittings Air Brake Union DOT

Hose End Fitting Assembly Kit



- For DOT 106 and SAE J1402 air brake hose
- Includes: two ½" NPTF brass swivel fittings; two 5/16" hex head nylon barbs for 3/8" I.D. air brake hose (Type AS, AI and AII); four nylon shells; two brass retaining rings; instructions

Part No.	Description	Unit
2112-3	End Fitting Assembly Kit	1 Kit

Hose End Fitting Assembly Kit

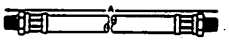


- For DOT 106 and SAE J1402 air brake hose
- Includes: two 3/8" NPTF brass swivel fittings; two 5/16" hex head nylon barbs for 3/8" I.D. air brake hose (Type AS, AI and AII); four nylon shells; two brass retaining rings; instructions

Part No.	Description	Unit
2112-2	End Fitting Assembly Kit	1 Kit

Air Brake- Hose Assemblies

Air Brake Hose Assemblies



Applications:

Air brake hose lines

Hydraulic Applications:

Maximum continuous operating temperature +200°F, maximum intermittent temperature +250°F. Temperature in excess of +250°F will shorten hose life

Air and Water Applications:

Maximum continuous temperature +160°F to +180°F depending on application

Inner Tube:

Synthetic rubber

Reinforcement:

2 fibre braids

Cover:

Synthetic rubber (perforated)

Temperature:

-40°F to 200°F

Pressure:

Maximum working pressure 125 psi. Proof test pressure 200 psi

With assembled fittings:

One end fixed with male NPTF rigid; one end with ABS swivel and adapter

Specifications:

Comm. version MIL-H-3992 Type I Class 1; meets DOT FMVSS571; 106 TYPE II; Penn State approved

Part No.	Hose I.D. (In.)	Hose O.D. (In.)	Pipe Thread on Both Ends	Unit	A (In.)
11751	3/8	3/4	1/4	1	24
11752	3/8	3/4	1/4	1	30
11753	3/8	3/4	1/4	1	32
11754	3/8	3/4	1/4	1	36
11756	3/8	3/4	3/8	1	36
11757	3/8	3/4	3/8	1	48
11759	1/2	7/8	3/8	1	24
11760	1/2	7/8	3/8	1	36
11761	1/2	7/8	3/8	1	48
11762	1/2	7/8	3/8	1	60

Heavy-Duty Air Brake Hose Assemblies



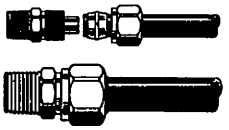
- With assembled fittings NPTF sizes
- Both ends swivel
- 125 psi Maximum working pressure
- 200 psi proof test pressure
- Meets DOT spec FMVSS 571.106 Type II and SAE J1402

For 3/8" I.D. Hose

Part No.	Pipe Thread on Both Ends	Length (In.)	Unit
11216-24	3/8-18	24	1
11216-36	3/8-18	36	1
11216-48	3/8-18	48	1

Air Brake- NTA- For Nylon Tubing- DOT

NTA Air Brake Fittings



Application:

Air brake systems, air control and gauge lines

Pressure Ranges:

150 psi

Temperature:

-40°F to 200°F

Used With:

SAE J844 Type 3A and 3B nylon airbrake tubing

Material:

Brass with stainless steel inserts and ribbed sleeve for compression and positive grip

Approvals:

Meets DOT FMVSSS 571.106

Note: Be sure to use proper sleeve. The flanged sleeve compression type fitting is intended foe use with nylon tubing per SAE J844.

Bulkhead Union



Part No.	Parker No.	Tube Size (In.)	Thread Size (In.)	Unit
10750-1	62ANBH-4	1/4	7/16-24	5
10751-1	62ANBH-6	3/8	17/32-24	5
10752-1	62ANBH-8	1/2	11/16-20	5
C99947	—	5/8	13/16-18	2

Sleeves

SAE 100115

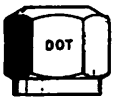


SAE 100115

Part No.	Parker No.	Tube Size (In.)	Unit
C85366	60NTA-2	1/8	100
10745-1	60NTA-3	3/16	25
10745	60NTA-4	1/4	25
10746	60NTA-6	3/8	25
10747	60NTA-8	1/2	10
10748	60NTA-10	5/8	10
10748-1	60NTA-12	3/4	10

Nuts

SAE 100110



Part No.	Parker No.	Tube Size (In.)	Unit
KP70219	61C-2	1/8	10
10737	61NTA-3	3/16	10
10740	61NTA-4	1/4	10
10741	61NTA-6	3/8	10
10742	61NTA-8	1/2	10
10743	61NTA-10	5/8	10
10848	61NTA-12	3/4	5

Stainless Steel Inserts



- Used to prevent collapse or damage of soft tubing
- For SAE J844 Tubing

Part No.	Parker No.	Insert O.D. (In.)	Fits Tube Size	Use with Tubing No.	Unit
10744-12*	—	9/64	1/8 (.023 wall)	10858	10
C511512	—		3/16 (.40 wall)	10859	1
10854-1*	—	7/32	5/16 (.040 wall)	10859-1	25
10893	63NTA-4	11/64	1/4 (.040 wall)	10859	25
10894	63NTA-6	15/64	3/8 (.062 wall)	10860	25
10895	63NTA-8	3/8	1/2 (.062 wall)	10861	25
10857	63NTA-10	7/16	5/8 (.092 wall)	10862	25
10857-1	63NTA-12	9/16	3/4 (.092 wall)	10863	15

*Brass

Union

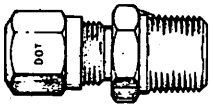
SAE 100101BA



Part No.	Parker No.	Tube Size (In.)	Unit
10750	62NTA-4	1/4	10
10751	62NTA-6	3/8	10
10752	62NTA-8	1/2	5
10753	62NTA-10	5/8	5
10753-1	62NTA-12	3/4	5

Male Connector

SAE 100102BA



Part No.	Parker No.	Tube Size (In.)	Pipe Thd. (In.)	Unit
10761-Y*	—	1/8	1/16	10
C85376	—	1/8	1/8	5
10761-1	VS68NTA-3-1	3/16	1/16	10
10761-2	VS68NTA-3-2	3/16	1/8	10
10761	VS68NTA-4-2	1/4	1/8	10
10762	VS68NTA-4-4	1/4	1/4	10
10762-1	VS68NTA-4-6	1/4	3/8	10
C99895	—	3/8	3/8	2
10763	VS68NTA-6-2	3/8	1/8	10
10764	VS68NTA-6-4	3/8	1/4	10
10765	VS68NTA-6-6	3/8	3/8	5
10765-X	VS68NTA-6-8	3/8	1/2	5
10765-2	VS68NTA-8-4	1/2	1/4	5
10765-1	VS68NTA-8-6	1/2	3/8	5
10766	VS68NTA-8-8	1/2	1/2	5
10767	VS68NTA-10-8	5/8	1/2	5
10767-1	VS68NTA-12-8	3/4	1/2	5
C99897	VS68NTA-12-12	3/4	3/4	2

*Not DOT

Male Connector

Swivel Male Pipe



2112-4



2112-5

Part No.	Tube Size (In.)	Swivel End Size NPTF (In.)	Tube Threads	Swivel Fitting Type	Unit
2112-4	1/8	1/8	17/32-24	Straight	5
2112-5	1/2	3/8	11/16-20	Straight	5
2112-6	3/8	3/8	17/32-24	45°	5
2112-7	1/2	1/2	11/16-20	45°	5

Female Connector

SAE 100103BA

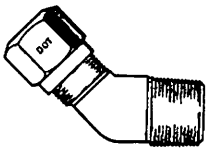


SAE 100103BA

Part No.	Parker No.	Tube Size (In.)	Thread Size (In.)	Pipe Thd. (In.)	Unit
10754-X	—	1/8	5/16-24	1/8	10
10754	66NTA-4-2	1/4	7/16-24	1/8	10
10755	66NTA-4-4	1/4	7/16-24	1/4	10
10756	66NTA-6-2	3/8	17/32-24	1/8	10
10757	66NTA-6-4	3/8	17/32-24	1/4	10
10758	66NTA-6-6	3/8	17/32-24	3/8	5
10758-1	66NTA-8-6	1/2	11/16-20	3/8	5
10759	66NA-8-8	1/2	11/16-20	1/2	5
10760	66NTA-10-8	5/8	13/16-18	1/2	5

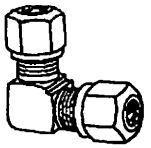
45° Male Elbow

SAE 100302BA



Part No.	Parker No.	Tube Size (In.)	Pipe Thd. (In.)	Unit
10781	VS279NTA-4-2	1/4	1/8	10
10782	VS279NTA-4-4	1/4	1/4	10
10783	VS279NTA-6-2	3/8	1/8	10
10784	VS279NTA-6-4	3/8	1/4	10
10785	VS279NTA-6-6	3/8	3/8	5
C99931	VS279NTA-6-8	3/8	1/2	2
10797	VS279NTA-8-4	1/2	1/4	5
10786	VS279NTA-8-6	1/2	3/8	5
10797-1	VS279NTA-8-8	1/2	1/2	5
C534864	VS279NTA-10-6	5/8	3/8	2
10787	VS279NTA-10-8	5/8	1/2	5

Union Elbow

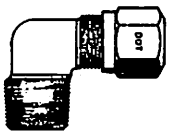


SAE No. 100201 BA

Part No.	Parker No.	Tube	Unit
C534700	265NTA-4	1/4	2
C84916	265NTA-6	3/8	2
C534704	265NTA-8	1/2	2
C534706	265NTA-10	5/8	2

90° Male Elbow

SAE 100202BA



Part No.	Parker No.	Tube Size (In.)	Thread Size (In.)	Pipe Thd. (In.)	Unit
10772-Y*	—	1/8	5/16-24	1/16	10
10772-1	VS269NTA-3-2	3/16	5/16-24	1/8	10
10772-2	VS269NTA-3-4	3/16	5/16-24	1/4	10
10772	VS269NTA-4-2	1/4	7/16-24	1/8	10
10773	VS269NTA-4-4	1/4	7/16-24	1/4	10
10774	VS269NTA-4-6	1/4	7/16-24	3/8	5
10775	VS269NTA-6-2	3/8	17/32-24	1/8	10
10776	VS269NTA-6-4	3/8	17/32-24	1/4	10
10777	VS269NTA-6-6	3/8	17/32-24	3/8	5
10778	VS269NTA-6-8	3/8	17/32-24	1/2	5
10778-1	VS269NTA-8-4	1/2	11/16-20	1/4	5
10779	VS269NTA-8-6	1/2	11/16-20	3/8	5
10779-1	VS269NTA-8-8	1/2	11/16-20	1/2	5
10779-2	VS269NTA-10-6	5/8	13/16-18	3/8	5
10780	VS269NTA-10-8	5/8	13/16-18	1/2	5
10780-1	VS269NTA-12-8	3/4	1-18	1/2	5

*Not DOT

Female Elbow

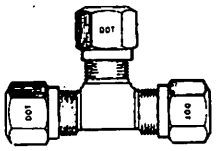


SAE No. 100203 BA

Part No.	Parker No.	O.D. (In.)	Pipe Size	Straight Thread	Unit
KP71349	270NTA-3-2	3/16	1/8	5/16-24	5
C99907	270NTA-4-2	1/4	1/8	7/16-24	5
C534761	270NTA-4-4	1/4	1/4	7/16-24	10
C99909	270NTA-6-2	3/8	1/8	17/32-24	2
C534762	270NTA-6-4	3/8	1/4	17/32-24	2
C534764	270NTA-6-6	3/8	3/8	17/32-24	2
KP70273	270NTA-8-8	1/2	1/2	11/16-20	3

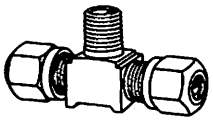
Brass Fittings Air Brake Union DOT

Union Tee
SAE 100401BA



Part No.	Parker No.	Tube Size (In.)	Unit
10768	264NTA-4	¼	10
10769	264NTA-6	⅜	10
10769-1	-----	⅜ x ¼	5
10770	264NTA-8	½	5
10771	264NTA-10	⅝	5

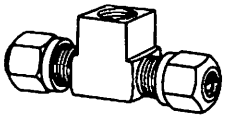
Male Branch Tee
SAE 100425BA



Part No.	Parker No.	Tube Size (In.)	Pipe Thd. (In.)	Unit
10793-2	—	3/16	⅛	5
10793-3	VS272NTA-4-2	¼	⅛	5
10793-4	VS272NTA-4-4	¼	¼	5
10793-5	VS272NTA-6-2	⅜	⅛	5
10793	—	⅜	¼	5
10793-1	VS272NTA-6-4-4	⅜ x ¼	¼	5
10794	VS272NTA-6-6	⅜	⅜	5
10793-6	VS272NTA-8-4	½	¼	5
10795-1	VS272NTA-8-8	½	½	5
10795	VS272NTA-8-6	½	⅜	5
10795-2	VS272NTA-10-8	⅝	½	5

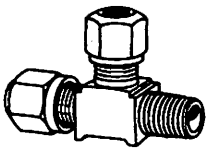
*Canada only

Female Branch Tee



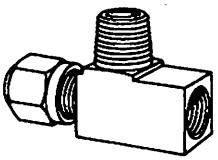
Part No.	Ind. Dash No.	Tube Size (In.)	Thread Size (In.)	Pipe Thd. (In.)	Unit
10796	6-4	⅜	17/32-24	¼	5

Male Run Tee
SAE 100424BA



Part No.	Parker No.	Tube Size (In.)	Male Pipe Thd. (In.)	Unit
10788	VS271NTA-4-2	¼	⅛	5
10788-1	VS271NTA-4-4	¼	¼	5
10791	VS271NTA-6-4	⅜	¼	5
10792	VS271NTA-6-6	⅜	⅜	5
10788-2	VS271NTA-8-6	½	⅜	5
10788-3	VS271NTA-8-8	½	½	5
10792-1	VS271NTA-10-8	⅝	½	5

Adapter Tee

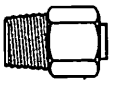


Part No.	Ind. Dash No.	Tube Size (In.)	Pipe Thd. M (In.)	Pipe Thd. F (In.)	Unit
10798	6-4-4	⅜	¼	¼	5
10799	6-6-4	⅜	⅜	¼	5

Prestomatic D.O.T. Air Shift Fittings

Male Connector

Tube to male N.P.T.



Part No.	Parker No.	Tube O.D. (In.)	T N.P.T.	Unit
12195	68PM-2-1	⅛	1/16	5
12195-1	68PM-2-2	⅛	⅛	5
12196	68PM-5/32-1	5/32	1/16	5
12196-1	68PM-5/32-2	5/32	⅛	5
715000	68PM-5/32-4	5/32	¼	5
KP150859	68PM-3-1	3/16	1/16	5
12197-1	68PM-3-2	3/16	⅛	5
12197-2	68PM-3-4	3/16	¼	5

Union

Tube to tube



Part No.	Parker No.	Tube O.D. (In.)	T N.P.T.	Unit
KP150104	32PM-2	⅛	—	5
KP150105	32PM-5/32	5/32	—	5
KP150106	32PM-3	3/16	—	5

Union Elbow

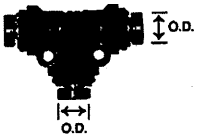
Tube to tube



Part No.	Parker No.	Tube O.D. (In.)	T N.P.T.	Unit
KP150110	365PM-2	⅛	—	5
KP150111	365PM-5/32	5/32	—	5
KP150112	365PM-3	3/16	—	5

Tee

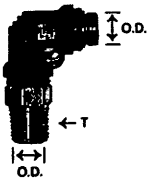
Tube to tube



Part No.	Parker No.	Tube O.D. (In.)	T N.P.T.	Unit
KP150107	364PM-2	⅛	—	5
KP150108	364PM-5/32	5/32	—	5
KP150109	364PM-3	3/16	—	5

Male Elbow

Tube to tube N.P.T.



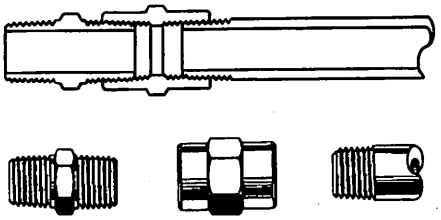
Part No.	Parker No.	Tube O.D. (In.)	T N.P.T.	Unit
KP150113	369PM-2-2	⅛	⅛	5
KP150114	369PM-2-4	⅛	¼	5
KP150115	369PM-5/32-2	5/32	⅛	5
KP150116	369PM-5/32-4	5/32	¼	5
KP150117	369PM-3-2	3/16	⅛	5
KP150118	369PM-3-4	3/16	¼	5

This fitting swivels 360° on its threaded base

Back to Index

Brass

Brass Pipe Fittings



Applications: Grease, fuels, LP and natural gas refrigeration, instrumentations & hydraulic systems

Used With: Brass, bronze and iron pipe

Maximum Working Pressure: up to 1200 psi

Operating Proof Pressure: Up to 15,000 psi on ⅛" and ¼" pipe; 5,000 psi on larger sizes

Vibration: Air resistance

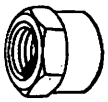
Temperature Range: -65°F to +250°F

Approvals: Meets specifications and standards of ASA, ASME, SAE

Advantages: Dryseal pipe threads; large range of styles and sizes

Assembly Instructions: Pipe fittings should be tightened approximately 2½ turns past hand tight

Caps



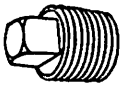
Part No.	Parker No.	Pipe Thrd. (In.)	Unit
11083-1	213P-2	⅛	5
11083-2	213P-4	¼	5
11085-1	213P-6	⅜	5
11085-2	213P-8	½	5

Plug, Slotted



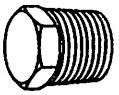
Part No.	Parker No.	Pipe Thd. (In.)	Unit
10829	220P-2	⅛	20
10830	220P-4	¼	10

Plug, Square Head



Part No.	Parker No.	Pipe Thd. (In.)	Unit
11082	211P-2	⅛	10
11081	211P-4	¼	10
11083-3	211P-6	⅜	5
11083-4	211P-8	½	5
MP11083-4	211P-8	½	3
11083-9	211P-12	¾	5

Plug, Hex Head



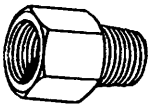
Part No.	Parker No.	Pipe Thrd. (In.)	Unit
11083	218P-2	⅛	10
11083-5	218P-4	¼	5
11083-6	218P-6	⅜	5
11083-7	218P-8	½	5
11083-8	218P-12	¾	2

Plug, Countersunk Hex Head



Part No.	Parker No.	Pipe Thd. (In.)	Unit
11087	219P-2	⅛	10
11087-1	219P-4	¼	10
11087-2	219P-6	⅜	10
11087-3	219P-8	½	10
C8883402	219P-12	¾	2

Adapters



Part No.	Parker No.	Male Pipe Thread (In.)	Female Pipe Thread (In.)	Unit
10831	222P-2-2	⅛	⅛	10
10832	222P-4-4	¼	¼	5
10833	222P-4-2	⅛	¼	10
11091-1	—	¼	⅜	5
+CD550168	222P-6-2	⅜	⅛	5
10833-1	222P-6-6	⅜	⅜	5
10834	—	⅜	½	5
10834-1	—	⅜	¾	2
+CD550169	222P-8-4	½	¼	5
+C530712	222P-8-8	½	½	2
10834-2	—	½	¾	2
KP9694	222P-12-12	¾	¾	4

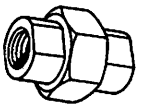
+Canada only

Bushings



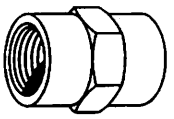
Part No.	Parker No.	Male Pipe Thread (In.)	Female Pipe Thread (In.)	Unit
11085	209P-4-2	¼	⅛	10
11088	209P-6-2	⅜	⅛	10
11089	209P-6-4	⅜	¼	5
11089-1	209P-8-2	½	⅛	5
11089-2	209P-8-4	½	¼	5
11089-3	209P-8-6	½	⅜	5
11089-4	209P-12-8	¾	½	2
11089-5	209P-12-6	¾	⅜	2
11089-6	—	¾	⅛	2
11089-7	—	¾	¼	2

Unions



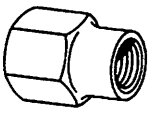
Part No.	Parker No.	Pipe Thd. (In.)	Unit
11118	—	⅛	5
11119	212P-4	¼	5
C99723	212P-6	⅜	2
C99724	—	½	2

Couplings



Part No.	Parker No.	Pipe Thd. (In.)	Unit
11090	207P-2	⅛	10
11090-1	207P-4	¼	5
11090-2	207P-6	⅜	5
11090-3	207P-8	½	5
MP11090-3	207P-8	½	2
11090-4	207P-12	¾	5

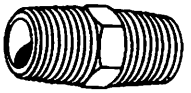
Coupling, Reducing



Part No.	Parker No.	Pipe Thd. (In.)	Unit
11091	208P-4-2	¼ x ⅛	5
MP11091	208P-4-2	¼ x ⅛	2
11091-2	—	⅜ x ⅛	5
11091-3	208P-6-4	⅜ x ¼	5
MP11091-3	208P-6-4	⅜ x ¼	2
+CD550167	208P-8-4	½ X ¼	5
11091-4	208P-8-6	½ x ⅜	5
MP11091-4	208P-8-6	½ x ⅜	2
KP9688	208P-12-8	¾ X ½	4

+Canada only

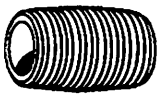
Nipple, Hex



Part No.	Parker No.	Pipe Thrd. (In.)	Pipe Thd. (In.)	Unit
11092	216P-2	⅛	⅛	10
10835	216P-4-2	¼	⅛	5
11097	216P-4	¼	¼	5
MP11097	216P-4	¼	¼	4
11097-2	216P-6-2	⅜	⅛	5
11097-5	216P-6-4	⅜	¼	5
11097-1	216P-6	⅜	⅜	5
C530225	216P-8-4	½	¼	10
11097-6	216P-8-6	½	⅜	5
11097-3	216P-8	½	½	5
C530227	216P-12-8	¾	½	10
11097-4	216P-12	¾	¾	5

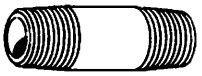
Brass Pipe Fittings

Nipple, Close



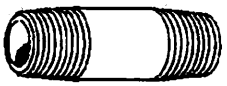
Part No.	Parker No.	Pipe Size (In.)	Unit
11095	215PN-2	⅛ X ¾L	10
11096	216PN-4	¼ X ⅞L	10
11096-1	215PN-6	⅜ X 1L	5
11096-2	215PN-8	½ X 1⅛L	5
11096-3	215PN-12	¾ X 1⅜6L	5

Nipple, Long



Part No.	Parker No.	Pipe Thd. (In.)	Length (In.)	Unit
11099	215PNL-2-15	⅛	1½	10
11099-2	215PNL-2-20	⅛	2	5
MP11099-2	215PNL-2-20	⅛	2	2
11099-4	215PNL-2-25	⅛	2½	5
11099-1	215PNL-4-15	¼	1½	5
MP11099-1	215PNL-4-15	¼	1½	2
11099-3	215PNL-4-20	¼	2	5
MP11099-3	215PNL-4-20	¼	2	2
10837	215PNL-4-25	¼	2½	5
10836-1	215PNL-6-15	⅜	1½	5
10836	215PNL-6-20	⅜	2	5
10836-2	215PNL-6-25	⅜	2½	5
11152-5	215PNL-5-18	½	1½	5
11152-6	215PNL-8-20	½	2	5
11152-7	215PNL-8-25	½	2½	5

Red Brass Long Nipples



Applications: Water, oil, air, natural gas and liquified petroleum products NOT RECOMMENDED FOR HYDRAULIC APPLICATIONS.

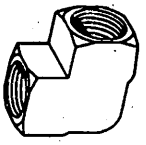
Used With: Brass or iron pipe

Approvals: Meets ASTM B43-91 specifications for CDA 230 alloy red brass pipe, meets ASTM B687-88 and MS51846 requirements

Features: American Standard taper threads (NPT), Schedule 40

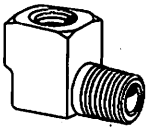
Part No.	Pipe Thd. (In.)	Length (In.)	Unit
11152	⅛	3	5
11152-3	⅛	3½	10
11099-5	⅛	4	5
11099-6	⅛	4½	5
11099-7	⅛	5	5
11099-8	⅛	5½	5
11099-9	⅛	6	5
11152-1	¼	3	5
11152-2	¼	3½	2
11099-10	¼	4	2
11099-11	¼	4½	2
11099-12	¼	5	2
11099-13	¼	5½	2
11099-14	¼	6	2
10836-3	⅜	3	5
10836-4	⅜	3½	5
10836-5	⅜	4	2
10836-6	⅜	4½	2
10836-7	⅜	5	2
10836-8	⅜	5½	2
10836-9	⅜	6	2
11152-8	½	3	5
11152-9	½	3½	5
11152-10	½	4	2
11152-11	½	4½	2
11152-12	½	5	2
11152-13	½	5½	2
11152-14	½	6	2
11153	¾	1½	2
11153-1	¾	2	2
11153-2	¾	2½	2
11153-3	¾	3	2
11153-4	¾	3½	2
11153-5	¾	4	2
11153-6	¾	4½	2
11153-7	¾	5	2
11153-8	¾	5½	2
11153-9	¾	6	2
11154	1	1½ (close)	2
11154-1	1	2	2
▭11154-2	1	2½	1
▭11154-3	1	3	1
11154-4	1	3½	2
▭11154-5	1	4	1
11154-6	1	4½	2
▭11154-7	1	5	1
11154-8	1	5½	2
▭11154-9	1	6	1

Elbow, Union



Part No.	Parker No.	Pipe Thd. (In.)	Unit
10842	2200P-2-2	⅛	10
10843	2200P-4-4	¼	10
10844	2200P-6-6	⅜	5
10845	2200P-8-8	½	2
10845-1	—	¾	2

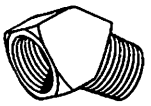
Elbow, Reducing



Part No.	Parker No.	Female Pipe Thread (In.)	Male Pipe Thread (In.)	Unit
10841	2202P-4-2	¼	⅛	5
WE3400X2W	-	118†	118††	10

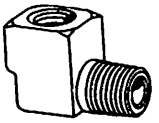
†PTF Short Thread
††PTF Special Short Thread

Elbow, 45° Street



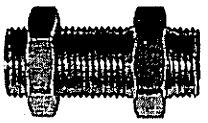
Part No.	Parker No.	Pipe Thd. (In.)	Unit
10838	2214P-2-2	⅛	5
11101-1	2214P-4-4	¼	5
10839	2214P-6-6	⅜	5
10839-1	2214P-8-8	½	2
10839-2	2214P-12-12	¾	2

Elbow, 90° Street



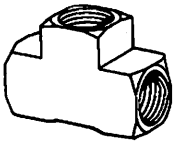
Part No.	Parker No.	Ind. Dash No.	Pipe Thd. (In.)	Unit
11101	2202P-2-2	-	⅛	10
11101-W	2202P-2-2	2	⅛	50
11100	2202P-4-4	-	¼	5
11101-X	2202P-6-6	-	⅜	5
10840	2202P-8-8	-	½	5
10840-1	2202P-12-12	-	¾	5

Bulkhead Coupling



Part No.	Parker No.	Pipe Size (In.)	Unit
▭KP25686	207ACBH-2	⅛	5
KP25687	207ACBH-4	¼	5
KP25688	207ACBH-6	⅜	2
KP25689	207ACBH-8	½	2

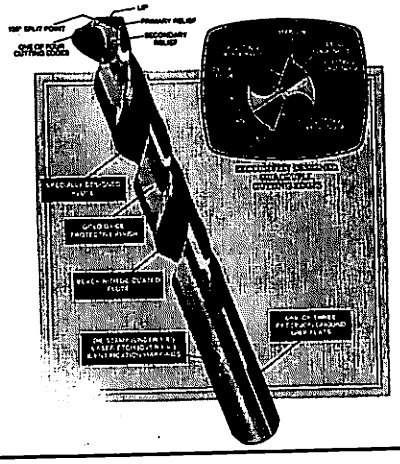
Tees



Part No.	Parker No.	Pipe Thd. (In.)	Unit
11148-1	1204P-2	⅛	5
MP11148-1	1204P-2	⅛	2
11148-2	1204P-4	¼	5
MP11148-2	1204P-4	¼	2
10846	1204P-6	⅜	5
10847	1204P-8	½	2
10847-1	—	¾	2

Quad-Cut® Drill Bits

Quad-Cut® Maintenance Length Drill Bits



Here is a drill bit designed to specifically meet the needs of the maintenance/repair profession.

- Bowman Maintenance Length Quad-Cut® bits are engineered for added efficiency and working ease in handheld drills.
- Developed with greater D/L (diameter to length ratio) to give new amazing stability and control with portable drills; decreases breakage potential.
- Quad-Cut® drill bits are manufactured of high alloy tool steel, providing superior strength and maximum tool life in a wide range of materials.
- The Quad-Cut® 135° split point features *four* cutting edges which eliminates the need for center punching. This drill bit will not "walk" even on curved surfaces.
- The specially contoured flute speeds chip removal and permits easier penetration into the metal.
- Three precision-ground flats* on the shank provides a more positive chuck-grip : . . eliminates bit slippage . . . reduces bit breakage.
- Black Oxide flute treatment promotes super-fast chip removal; longer tool life.
- Gold oxide treatment dissipates heat . . . keeps cutting edges sharper longer; prevents rust.
- Each Bowman Maintenance Length drill bit is laser etched with the drill's size, Bowman/Barnes logo, HSS and U.S.A.
- Each Bowman Maintenance Length drill bit over .250 (¼") is also lot-code marked for traceability; added assurance of quality.

*On ¼" diameter and larger.

Quad-Cut®

Maintenance Length Drill Bits Are Available in Sets or in Single Sizes



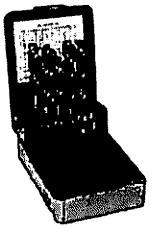
Part No.	Size Range (In.)	No. of Pcs.	Unit
20929	1/16 — 1/2 in 1/64 Increments	29	1
20930	1/16 — 1/2 in 1/32 Increments	15	1
20931	1/16 — 3/8 in 1/64 Increments	21	1
20932	1/16 — 1/4 in 1/64 Increments	13	1

Individual Quad-Cut® Maintenance Length Drill Sizes

Part No.	Dia.	OAL (In.)	Unit
20900-1	1/16	2	1
20900	1/16	2	3
20900-10	1/16	2	10
20901-1	5/64	2 1/8	1
20901	5/64	2 1/8	3
20901-10	5/64	2 1/8	10
20902-1	3/32	2 1/4	1
20902	3/32	2 1/4	3
20902-10	3/32	2 1/4	10
20903-1	7/64	2 3/8	1
20903	7/64	2 3/8	3
20903-10	7/64	2 3/8	10
20904-1	1/8	2 1/2	1
20904	1/8	2 1/2	3
20904-10	1/8	2 1/2	10
20905-1	9/64	2 5/8	1
20905	9/64	2 5/8	3
20905-10	9/64	2 5/8	10
20906-1	5/32	2 3/4	1
20906	5/32	2 3/4	3
20906-10	5/32	2 3/4	10
20907-1	11/64	2 7/8	1
20907	11/64	2 7/8	3
20907-10	11/64	2 7/8	10
20908-1	3/16	3	1
20908	3/16	3	3
20908-10	3/16	3	10
20909-1	13/64	3 1/8	1
20909	13/64	3 1/8	3
20909-10	13/64	3 1/8	10
20910-1	7/32	3 1/4	1
20910	7/32	3 1/4	3
20910-10	7/32	3 1/4	10
20911-1	15/64	3 3/8	1
20911	15/64	3 3/8	3
20911-10	15/64	3 3/8	10
20912-1	1/4	3 1/2	1
20912	1/4	3 1/2	3
20912-10	1/4	3 1/2	10
20913-1	17/64	3 5/8	1
20913	17/64	3 5/8	3
20913-10	17/64	3 5/8	10
20914-1	9/32	3 3/4	1
20914	9/32	3 3/4	3
20914-10	9/32	3 3/4	10
20915-1	19/64	3 7/8	1
20915	19/64	3 7/8	3
20915-5	19/64	3 7/8	5
20916-1	5/16	4	1
20916	5/16	4	3
20916-5	5/16	4	5
20917-1	21/64	4 1/16	1
20917	21/64	4 1/16	3
20917-5	21/64	4 1/16	5
20918-1	11/32	4 1/8	1
20918	11/32	4 1/8	3
20918-5	11/32	4 1/8	5
20919-1	23/64	4 3/16	1
20919	23/64	4 3/16	3
20919-5	23/64	4 3/16	5
20920-1	3/8	4 1/4	1
20920	3/8	4 1/4	3
20920-5	3/8	4 1/4	5
20921-1	25/64	4 5/16	1
20921	25/64	4 5/16	3
20921-5	25/64	4 5/16	5
20922-1	13/32	4 3/8	1
20922	13/32	4 3/8	3
20922-5	13/32	4 3/8	5
20923-1	27/64	4 7/16	1
20923	27/64	4 7/16	3
20923-5	27/64	4 7/16	5
20924-1	7/16	4 1/2	1
20924	7/16	4 1/2	3
20924-5	7/16	4 1/2	5
20925-1	29/64	4 5/8	1
20925	29/64	4 5/8	3
20925-5	29/64	4 5/8	5
20926-1	15/32	4 3/4	1
20926	15/32	4 3/4	3
20926-5	15/32	4 3/4	5
20927-1	31/64	4 7/8	1
20927	31/64	4 7/8	3
20927-5	31/64	4 7/8	5
20928-1	1/2	5	1
20928	1/2	5	3
20928-5	1/2	5	5

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® 3/8" Reduced Shank Drill Bits



Part No. 20936

- For drilling large diameter holes with 3/8" hand drill motors

Continued on next page

Cutting Tools - Drill Bits & Sets

Continued from previous page

Part No.	Dia. (In.)	OAL (In.)	Unit
20941	25/64	4 5/16	1
20942	13/32	4 3/8	1
20943	27/64	4 7/16	1
20944	7/16	4 1/2	1
20945	29/64	4 5/8	1
20946	15/32	4 3/4	1
20947	31/64	4 7/8	1
20948	1/2	5	1

Sets

Part No.	Size Range (In.)	No. of Pcs.	Unit
20934	25/64 — 1/2 in 1/64 Increments	8	1
20935	1/16 — 1/2 in 1/64 Increments	29	1
20936	1/16 — 1/2 in 1/32 Increments	15	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Wire Gauge Drill Bits



Part No.	Wire Ga. Size	Dia.	OAL (In.)	Unit
20801	1	.2280	3 7/8	3
20802	2	.2210	3 7/8	3
20803	3	.2130	3 3/4	3
20804	4	.2090	3 3/4	3
20805	5	.2055	3 3/4	3
20806	6	.2040	3 3/4	3
20807	7	.2010	3 5/8	3
20808	8	.1990	3 5/8	3
20809	9	.1960	3 5/8	3
20810	10	.1935	3 5/8	3
20811	11	.1910	3 1/2	3
20812	12	.1890	3 1/2	3
20813	13	.1850	3 1/2	3
20814	14	.1820	3 3/8	3
20815	15	.1800	3 3/8	3
20816	16	.1770	3 3/8	3
20817	17	.1730	3 3/8	3
20818	18	.1695	3 1/4	3
20819	19	.1660	3 1/4	3
20820	20	.1610	3 1/4	3
20821	21	.1590	3 1/4	3
20822	22	.1570	3 1/8	3
20823	23	.1540	3 1/8	3
20824	24	.1520	3 1/8	3
20825	25	.1495	3	3
20826	26	.1470	3	3
20827	27	.1440	3	3
20828	28	.1405	2 7/8	3
20829	29	.1360	2 7/8	3
20830	30	.1285	2 3/4	3
20831	31	.1200	2 3/4	3
20832	32	.1160	2 3/4	3
20833	33	.1130	2 5/8	3
20834	34	.1110	2 5/8	3
20835	35	.1100	2 5/8	3
20836	36	.1065	2 1/2	3
20837	37	.1040	2 1/2	3
20838	38	.1015	2 1/2	3
20839	39	.0995	2 3/8	3
20840	40	.0980	2 3/8	3
20841	41	.0960	2 3/8	3
20842	42	.0935	2 1/4	3
20843	43	.0890	2 1/4	3
20844	44	.0860	2 1/8	3
20845	45	.0820	2 1/8	3
20846	46	.0810	2 1/8	3
20847	47	.0785	2	3
20848	48	.0760	2	3
20849	49	.0730	2	3
20850	50	.0700	2	3
20851	51	.0670	2	3
20852	52	.0635	1 7/8	3
20853	53	.0595	1 7/8	3
20854	54	.0550	1 7/8	3
20855	55	.0520	1 7/8	3
20856	56	.0465	1 3/4	3
20857	57	.0430	1 3/4	3
20858	58	.0420	1 5/8	3
20859	59	.0410	1 5/8	3
20860	60	.0400	1 5/8	3

Quad-Cut® Wire Gauge Drill Bits Set

Part No.	Description	Unit
20800	1 each drill bit listed above in sturdy metal index	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Letter Drill Bits



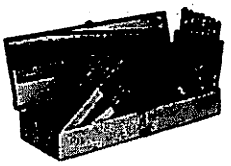
Part No.	Letter Size	Dia.	OAL (In.)	Unit
20870-A	A	.2340	3 1/2	3
20870-B	B	.2380	3 1/2	3
20870-C	C	.2420	3 1/2	3
20870-D	D	.2460	3 1/2	3
20870-E	E	.2500	3 1/2	3
20870-F	F	.2570	3 5/8	3
20870-G	G	.2610	3 5/8	3
20870-H	H	.2660	3 5/8	3
20870-I	I	.2720	3 3/4	3
20870-J	J	.2770	3 3/4	3
20870-K	K	.2810	3 3/4	3
20870-L	L	.2900	3 7/8	3
20870-M	M	.2950	3 7/8	3
20870-N	N	.3020	4	3
20870-O	O	.3160	4	3
20870-P	P	.3230	4 1/16	3
20870-Q	Q	.3320	4 1/8	3
20870-R	R	.3390	4 1/8	3
20870-S	S	.3480	4 3/16	3
20870-T	T	.3580	4 3/16	3
20870-U	U	.3680	4 1/4	3
20870-V	V	.3770	4 1/4	3
20870-W	W	.3860	4 5/16	3
20870-X	X	.3970	4 3/8	3
20870-Y	Y	.4040	4 3/8	3
20870-Z	Z	.4130	4 7/16	3

Quad-Cut® Letter Drill Bits Set

Part No.	Description	Unit
20870	1 each drill bit listed above in sturdy metal index	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

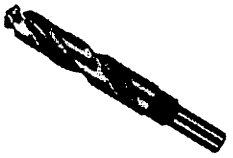
Quad-Cut® Master Drill Set



Part No.	Size Range	No. of Pcs.	Unit
20933	1-60 Wire Gauge A-Z Letter 1/16-1/2 Fractional	115	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® 1/2" Reduced Shank Drill Bits



- S & D style

Part No.	Dia. (In.)	OAL (In.)	Unit
20950-1	33/64	5 1/2	1
20951	17/32	5 1/2	1
20951-1	35/64	5 1/2	1
20952	9/16	5 1/2	1
20952-1	37/64	5 1/2	1
20953	19/32	5 1/2	1
20953-1	39/64	5 1/2	1
20954	5/8	5 1/2	1
20954-1	41/64	5 1/2	1
20955	21/32	5 1/2	1
20955-1	43/64	5 1/2	1
20956	11/16	5 1/2	1
20956-1	45/64	5 1/2	1
20957	23/32	5 1/2	1
20957-1	47/64	5 1/2	1
20958	3/4	5 1/2	1
20959	49/64	5 1/2	1
20960	25/32	5 1/2	1
20960-1	51/64	5 1/2	1
20961	13/16	5 1/2	1
20961-1	53/64	5 1/2	1
20962	27/32	5 1/2	1
20962-1	55/64	5 1/2	1
20963	7/8	5 1/2	1
20963-1	57/64	5 1/2	1
20964	29/32	5 1/2	1
20965	59/64	5 1/2	1
20966	15/16	5 1/2	1
20966-1	61/64	5 1/2	1
20967	31/32	5 1/2	1
20967-1	63/64	5 1/2	1
20968	1	5 1/2	1
20968-1	1 1/16	6	1
20969	1 1/8	6	1
20969-1	1 3/16	6	1
20970	1 1/4	6	1
20970-1	1 5/16	6	1
20971	1 3/8	6	1

NOTE: Sizes over 1" do not contain flats or split point features.

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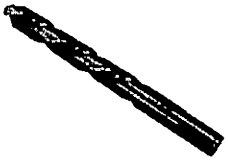
Part No. 20937

Quad-Cut® ½" Reduced Shank Drill Bit Set

Part No.	Size Range (In.)	No. of Pcs.	Unit
20937	1/16 — 1 in 1/16 Increments	8	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Left-Hand Drill Bits



- Maintenance Length
- Ideal for removing broken studs and bolts

Part No.	Dia. (In.)	OAL (In.)	Unit
20881-1	1/16	2	1
20881	1/8	2½	1
20882	3/16	3	1
20883	¼	3½	1
20884	5/16	4	1
20885	3/8	4¼	1
20886	7/16	4½	1
20887	½	5	1

Sets



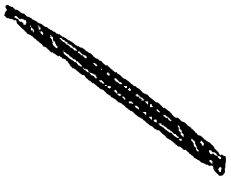
Part No. 20879

Part No.	Size Range (In.)	No. of Pcs.	Unit
20880	1/16 — ½ in 1/16 Increments	8	1

Part No.	Size Range (In.)	No. of Pcs.	Unit
20879	5 Bits: 1/16, 1/8, 3/16, ¼, 5/16, 5 Spiral Fluted Screw Extractors (#1 thru #5)	10	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Twin-End Drill Bits



- For use in drilling sheet steel or any thin gauge materials
- Use #11 for 5/16" rivets, and #30 for 1/8" rivets

Part No.	Size	Unit
20982	1/8" (.125) Dia.	3
20983	5/32" (.1562) Dia.	3
20984	3/16" (.1875) Dia.	3
20986	¼" (.250) Dia.	3
20987	No. 11 (.1910) Dia.	3
20989	No. 30 (.1285) Dia.	3

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Extra Length Drill Bits

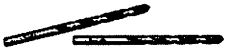


- Manufactured to NAS 907-B specifications
- For deep hole drilling to depths up to 20 times the drill diameter; special drilling techniques should be employed when using drill bits

Part No.	Dia. (In.)	OAL (In.)	Unit
20973	1/8	12	1
20974	3/16	12	1
20975	¼	12	1
20976	5/16	12	1
20977	3/8	12	1
20978	7/16	12	1
20979	½	12	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Metric Drill Bits



- Manufactured to DIN Standards

Part No.	Dia. (mm)	OAL (mm)	Flute Lgth. (mm)	Unit
20523	1.00	34	12	1
20524	1.50	40	18	1
20525	2.00	49	24	1
20526	2.50	57	30	1
20527	3.00	61	33	1
20528	3.50	70	39	1
20529	4.00	75	43	1
20530	4.50	80	47	1
20531	5.00	86	52	1
20532	5.50	93	57	1
20533	6.00	93	57	1
20534	6.50	101	63	1
20535	7.00	109	69	1
20536	7.50	109	69	1
20537	8.00	117	75	1
20538	8.50	117	75	1
20539	9.00	125	81	1
20540	9.50	125	81	1
20541	10.00	133	87	1
20542	10.50	133	87	1
20543	11.00	142	94	1
20544	11.50	142	94	1
20545	12.00	151	101	1
20546	12.50	151	101	1
20547	13.00	151	101	1

Metric Sets



Part No.	Size (mm)	No. of Pcs.	Unit
20549	1 through 13 x .5MM	25	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Cutting Tools - Drill Bits & Sets

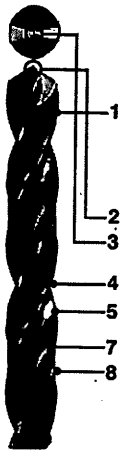
Remember that you can always call our Customer Service Department when you need a sample.

And if you're not sure of exactly what type of fastener you need, rest assured that one call to our Customer Service Department can get you the answer you are looking for!

We're here to serve you so feel free to call us with any questions you may have.

For All Your Fastener Needs!!

Quad-Cut® 4 x 4



FEATURES & BENEFITS

643

1. FOUR (4) MARGINS

- Four (4) support margins instead of the standard two. Helps align the drill bit in a 90° position to the work piece reducing vibration, resulting in straighter, rounder and closer tolerance holes with a smoother, cleaner finish.
- Helps reduce or eliminate some secondary operations such as reaming and boring; speeds up production.
- Closer to nominal hole size; provides higher productivity when tapping. Maximizes percentage of thread for increased fastener holding power.
- Minimizes need for drill bushings; reduces set-up time; lowers product costs.
- Reduces "run-out" effect, helps to compensate for worn spindles; closer tolerances from older machinery.
- Replaces special, high cost NC/CNC drill bits in numerous applications, providing substantial costs savings.
- Accurate drilling even in convex surfaces; high quality, consistent holes in curved workpieces.

2. 118° CONVENTIONAL POINT ANGLE

An industry standard, commonly used due to its respectable performance in a wide range of materials.

3. MODIFIED SPLIT POINT

Four (4) cutting edges reduce machine tool thrust requirements that result in increased penetration rates into the workpiece while reducing wear on the tool. Self-centering feature reduces need for center drilling and minimizes skidding or "walking" of the drill bit when starting the hole.

4. MANUFACTURED FROM HIGH STRENGTH MOLYBDENUM TOOL STEEL

Provides an outstanding combination of red hardness, toughness and abrasion resistance. Longer tool life. Fewer tool changes. Lower tool costs.

5. STANDARD JOBBER LENGTH

The standard for machine tools. No adjustments to programming required.

6. DIE-FORMED SIZE IDENTIFICATION STAMPED

For easy identification that will last the life of the bit.

7. SPECIALLY CONTOURED FLUTE

Assists and speeds chip removal. Minimizes clogging and binding of chips to increase chip flow. Saves drilling time.

8. OXIDE SURFACE TREATMENT

Dissipates heat, prevents corrosion, chipping and galling. Helps keep cutting edges sharper longer. Dramatically extends service life.

9. EXCEEDS AIRCRAFT SPEC. NAS907A FOR TOLERANCE

Assurance of high quality hole accuracy.

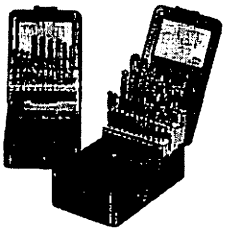
10. MADE IN U.S.A.

Quad-Cut® 4 x 4

AVAILABLE INDIVIDUALLY OR IN AN INDEXED ASSORTMENT CABINET!

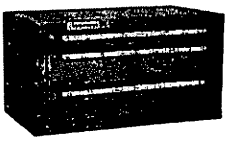
INDIVIDUAL SIZES ORDER CHART

Part No.	Dia. (In.)	OAL (In.)	Unit
22425-1	1/16	1 7/8	1
22425	1/16	1 7/8	12
22426-1	5/64	2	1
22426	5/64	2	12
22427-1	3/32	2 1/4	1
22427	3/32	2 1/4	12
22428-1	7/64	2 5/8	1
22428	7/64	2 5/8	12
22429-1	1/8	2 3/4	1
22429	1/8	2 3/4	12
22430-1	9/64	2 7/8	1
22430	9/64	2 7/8	12
22431-1	5/32	3 1/8	1
22431	5/32	3 1/8	12
22432-1	11/64	3 1/4	1
22432	11/64	3 1/4	12
22433-1	3/16	3 1/2	1
22433	3/16	3 1/2	12
22434-1	13/64	3 5/8	1
22434	13/64	3 5/8	12
22435-1	7/32	3 3/4	1
22435	7/32	3 3/4	12
22436-1	15/64	3 7/8	1
22436	15/64	3 7/8	12
22437-1	1/4	4	1
22437	1/4	4	12
22438-1	17/64	4 1/8	1
22438	17/64	4 1/8	12
22439-1	9/32	4 1/4	1
22439	9/32	4 1/4	12
22440-1	19/64	4 3/8	1
22440	19/64	4 3/8	6
22441-1	5/16	4 1/2	1
22441	5/16	4 1/2	6
22442-1	21/64	4 5/8	1
22442	21/64	4 5/8	6
22443-1	11/32	4 3/4	1
22443	11/32	4 3/4	6
22444-1	23/64	4 7/8	1
22444	23/64	4 7/8	6
22445-1	3/8	5	1
22445	3/8	5	6
22446-1	25/64	5 1/8	1
22446	25/64	5 1/8	6
22447-1	13/32	5 1/4	1
22447	13/32	5 1/4	6
22448-1	27/64	5 3/8	1
22448	27/64	5 3/8	6
22449-1	7/16	5 1/2	1
22449	7/16	5 1/2	6
22450-1	29/64	5 5/8	1
22450	29/64	5 5/8	6
22451-1	15/32	5 3/4	1
22451	15/32	5 3/4	6
22452-1	31/64	5 7/8	1
22452	31/64	5 7/8	6
22453-1	1/2	6	1
22453	1/2	6	6



Drill Sets Quad-Cut® 4 x 4

Part No.	Size Range (In.)	No. of Pcs.	Unit
22455	1/16 - 1/2 in 1/64 increments	29	1
22456	1/16 - 1/2 in 1/32 increments	15	1



Part No. 59809B

- 29 Items, 83 Pieces

ASSORTMENT CONTENTS

Part No.	Description	Unit
59809B	Quad-Cut 4 x 4 assortment contains 3 each 1/16" through 7/16" by 1/64" and 2 each 29/64" through 1/2" by 1/64" increments	1

Quad-Cut® Master Tap & Drill Set



This 22-piece set contains 11 Quad-Cut® machine screw/fractional plug taps and 11 Quad-Cut® Tap Drill sizes

Part No.	Description	Unit
20876	Quad-Cut® Master Tap & Drill Set; contains 1 plug tap & 1 tap drill for the sizes listed	1

Replacement Tap Part No.	Quad-Cut® Machine Screw & Fractional Plug Tap Sizes	Replacement Tap Drill Part No.	Quad-Cut® Tap Drill Sizes
20700	4-40	20843	No. 43
20702	6-32	20836	No. 36
20703	8-32	20829	No. 29
20704	10-24	20825	No. 25
20754	10-32	20821	No. 21
20705	12-24	20816	No. 16
20706	1/4"-20	20807	No. 7
20707	5/16"-18	20870-F	No. F
20708	3/8"-16	20916	5/16"
20709	7/16"-14	20870-U	No. U
20710	1/2"-13	20923	27/64"

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Fractional Tap & Drill Set



This 10-piece set contains five Quad-Cut® Fractional Plug Taps and five Quad-Cut® Tap Drill sizes

Part No.	Description	Unit
20877	Quad-Cut® Fractional Tap & Drill Set; contains 1 plug tap & 1 tap drill for the sizes listed	1

Replacement Tap Part No.	Quad-Cut® Fractional Plug Tap Sizes	Replacement Tap Drill Part No.	Quad-Cut® Tap Drill Sizes
20706	1/4"-20	20807	No. 7
20707	5/16"-18	20870-F	No. F
20708	3/8"-16	20916	5/16"
20709	7/16"-14	20870-U	No. U
20710	1/2"-13	20923	27/64"

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Machine Screw Tap & Drill Set



This 12-piece set contains six Quad-Cut® machine screw plug taps and six Quad-Cut® Tap Drill sizes

Part No.	Description	Unit
20878	Quad-Cut® Machine Screw Tap & Drill Set; contains 1 plug tap & 1 tap drill for sizes listed	1

Replacement Tap Part No.	Quad-Cut® Machine Screw Plug Tap Sizes	Replacement Tap Drill Part No.	Quad-Cut® Tap Drill Sizes
20700	4-40	20843	No. 43
20702	6-32	20836	No. 36
20703	8-32	20829	No. 29
20704	10-24	20825	No. 25
20754	10-32	20821	No. 21
20705	12-24	20816	No. 16

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Cutting Tools - Drill Bits & Sets

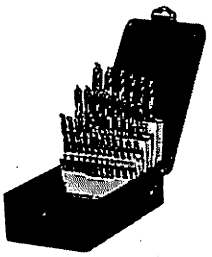
Duralloy Drill Bits

Duralloy Drill Bits

- High speed steel construction
- 135° split point - self centering and reduces thrust
- Unique flute form enhances chip ejection; improves coolant flow to the point
- Heavy duty web construction - offers greater stength and rigidity; improves hole tolerances, resists deflection and permits higher feed rates
- Black and gold oxide - provides added lubricity; dissipates heat
- Made in U.S.A.

Fractional Size - Jobber Length

Part No.	Dia. (In.)	OAL (In.)	Unit
C87737-1	1/16	1 7/8	1
C87737	1/16	1 7/8	6
C87737-12	1/16	1 7/8	12
C87738-1	5/64	2	1
C87738	5/64	2	6
C87738-12	5/64	2	12
C87739-1	3/32	2 1/4	1
C87739	3/32	2 1/4	6
C87739-12	3/32	2 1/4	12
C87740-1	7/64	2 5/8	1
C87740	7/64	2 5/8	6
C87740-12	7/64	2 5/8	12
C87741-1	1/8	2 3/4	1
C87741	1/8	2 3/4	6
C87741-12	1/8	2 3/4	12
C87742-1	9/64	2 7/8	1
C87742	9/64	2 7/8	6
C87742-12	9/64	2 7/8	12
C87743-1	5/32	3 1/8	1
C87743	5/32	3 1/8	6
C87743-12	5/32	3 1/8	12
C87744-1	11/64	3 1/4	1
C87744	11/64	3 1/4	3
C87744-12	11/64	3 1/4	12
C87745-1	3/16	3 1/2	1
C87745	3/16	3 1/2	3
C87745-12	3/16	3 1/2	12
C87746-1	13/64	3 5/8	1
C87746	13/64	3 5/8	3
C87746-12	13/64	3 5/8	12
C87747-1	7/32	3 3/4	1
C87747	7/32	3 3/4	3
C87747-12	7/32	3 3/4	12
C87748-1	15/64	3 7/8	1
C87748	15/64	3 7/8	3
C87748-12	15/64	3 7/8	12
C87749-1	1/4	4	1
C87749	1/4	4	3
C87749-12	1/4	4	12
C87750-1	17/64	4 1/8	1
C87750	17/64	4 1/8	2
C87750-12	17/64	4 1/8	12
C87751-1	9/32	4 1/4	1
C87751	9/32	4 1/4	2
C87751-12	9/32	4 1/4	12
C87752-1	19/64	4 3/8	1
C87752	19/64	4 3/8	2
C87752-6	19/64	4 3/8	6
C87753-1	5/16	4 1/2	1
C87753	5/16	4 1/2	2
C87753-6	5/16	4 1/2	6
C87754	21/64	4 5/8	1
C87754-6	21/64	4 5/8	6
C87755	11/32	4 3/4	1
C87755-6	11/32	4 3/4	6
C87756	23/64	4 7/8	1
C87756-6	23/64	4 7/8	6
C87757	3/8	5	1
C87757-6	3/8	5	6
C87758	25/64	5 1/8	1
C87758-6	25/64	5 1/8	6
C87759	13/32	5 1/4	1
C87759-6	13/32	5 1/4	6
C87760	27/64	5 3/8	1
C87760-6	27/64	5 3/8	6
C87761	7/16	5 1/2	1
C87761-6	7/16	5 1/2	6
C87762	29/64	5 5/8	1
C87762-6	29/64	5 5/8	6
C87763	15/32	5 3/4	1
C87763-6	15/32	5 3/4	6
C87764	31/64	5 7/8	1
C87764-6	31/64	5 7/8	6
C87765	1/2	6	1
C87765-6	1/2	6	6



Drill Sets for Duralloy Drill Bits

Part No.	Size Range (In.)	No. of Pcs.	Unit
C87736	1/16 - 1/2 in., 1/64 increments	29	1
C87735	1/16 - 1/2 in., 1/32 increments	15	1
C87734	1/16 - 1/4 in., 1/64 increments	13	1
C88107	1/16 - 3/8 in., 1/64 increments	21	1

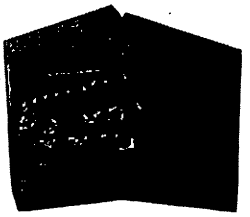
Tin Coated Drill Bits

Titanium "TiN" Coated



- Jobber length
- Straight shank style
- 135° split point, self-centering and starting
- High speed moly tool steel
- Made in the U.S.A.
- Titanium Nitride "TiN" coating - provides the tool with a very high wear resistance and thermal barrier which reduces friction and chip welding
- Recommedned applications - production and maintenance portable drilling of ferrous materials below RC 40 and non-ferrous materials

Part No.	Dia. Size (In.)	Overall Length	Unit
KP61943	1/16	1 7/8	1
KP61944	5/64	2	1
KP61945	3/32	2 1/4	1
KP61946	7/64	2 5/8	1
KP61947	1/8	2 3/4	1
KP61948	9/64	2 7/8	1
KP61949	5/32	3 1/8	1
KP61950	11/64	3 1/4	1
KP61952	3/16	3 1/2	1
KP61953	13/64	3 5/8	1
KP61954	7/32	3 3/4	1
KP61955	15/64	3 7/8	1
KP61956	1/4	4	1
KP61957	17/64	4 1/8	1
KP61958	9/32	4 1/2	1
KP61959	19/64	4 3/8	1
KP61960	5/16	4 1/2	1
KP61961	21/64	4 5/8	1
KP61962	11/32	4 3/4	1
KP61963	23/64	4 7/8	1
KP61964	3/8	5	1
KP61965	25/64	5 1/8	1
KP61966	13/32	5 1/4	1
KP61967	27/64	5 3/8	1
KP61968	7/16	5 1/2	1
KP61969	29/64	5 5/8	1
KP61970	15/32	5 3/4	1
KP61972	31/64	5 7/8	1
KP61973	1/2	6	1

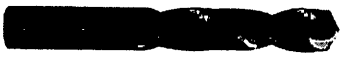


Sets

Part No.	Description	No. of Pieces	Unit
KP61975	1/16"-1/2", 1/64 Increments	29	1
KP61974	1/16"-1/2", 1/32 Increments	15	1

Screw Machine Drills

Screw Machine Drills



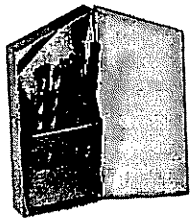
- Screw machine length
- Straight shank style
- 135° split point, self-centering and starting
- M-2 high speed tool steel
- Manufactured to National Aerospace Standard 907
- Made in the U.S.A.

Part No.	Dia. (In.)	OAL (In.)	Unit
KP84662	1/16	1 5/8	1
KP65224	1/8	1 7/8	1
KP65228	3/16	2 1/4	1
KP65230	1/4	2 1/2	1
KP65623	5/16	2 3/4	1
KP78977	3/8	3 1/8	1
KP65627	7/16	3 1/2	1
KP65629	1/2	3 3/4	1

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Cobalt Drill Bits

Cobalt Jobber Length Drill Bits



- Heavy-duty — 135° split point
- Higher red hardness than standard HSS drills — accepts higher heat ranges
- Recommended for drilling high-tensile materials and work hardening materials such as high strength alloy steels, stainless steel, titanium, inconel and armor plate
- Meets NAS 907, Type J specifications
- Made in U.S.A.

Fractional Sizes:

Part No.	Dia. (In.)	OAL (In.)	Unit
KP150527	3/64	1 7/8	1
28808	1/16	1 7/8	12
KP71472	1/16	1 7/8	1
28809	5/64	2	12
KP71473	5/64	2	1
28810	3/32	2 1/4	12
KP71474	3/32	2 1/4	1
28811	7/64	2 5/8	12
KP71475	7/64	2 5/8	1
28812	1/8	2 3/4	12
KP71476	1/8	2 3/4	1
28813	9/64	2 7/8	12
KP71477	9/64	2 7/8	1
28814	5/32	3 1/8	12
KP71478	5/32	3 1/8	1
28815	11/64	3 1/4	12
KP71479	11/64	3 1/4	1
28816	3/16	3 1/2	12
KP71480	3/16	3 1/2	1
28817	13/64	3 5/8	12
KP71481	13/64	3 5/8	1
28818	7/32	3 3/4	12
KP71482	7/32	3 3/4	1
28819	15/64	3 7/8	12
KP71483	15/64	3 7/8	1
28820	1/4	4	12
KP71484	1/4	4	1
28821	17/64	4 1/8	12
KP71485	17/64	4 1/8	1
28822	9/32	4 1/4	12
KP71486	9/32	4 1/4	1
28823	19/64	4 3/8	6
KP71487	19/64	4 3/8	1
28824	5/16	4 1/2	6
KP71488	5/16	4 1/2	1
28825	21/64	4 5/8	6
KP71489	21/64	4 3/8	1
28826	11/32	4 3/4	6
KP71490	11/32	4 3/4	1
28827	23/64	4 7/8	6
KP71491	23/64	4 7/8	1
28828	3/8	5	6
KP71492	3/8	5	1
28829	25/64	5 1/8	6
KP71493	25/64	5 1/8	1
28830	13/32	5 1/4	6
KP71494	13/32	5 1/4	1
28831	27/64	5 3/8	6
KP71495	27/64	5 3/8	1
28832	7/16	5 1/2	6
KP71496	7/16	5 1/2	1
28833	29/64	5 5/8	6
KP71497	29/64	5 5/8	1
28834	15/32	5 3/4	6
KP71498	15/32	5 3/4	1
28835	31/64	5 7/8	6
KP71499	31/64	5 7/8	1
28836	1/2	6	6
KP71500	1/2	6	1

Sets

Part No.	Size Range (In.)	No. of Pcs.	Unit
28837	1/16 - 1/2 in., 1/64 increments	29	1
CA10340	1/16 - 1/2 in., 1/32 increments	15	1

Cobalt Drills

- Jobber length
- Straight shank style
- 135° split point — self-centering and starting
- M-42 high speed cobalt tool steel
- High heat resistant; excellent for alloys, high tensile, and abrasive material
- Manufactured to National Aerospace Standard 907
- Made in the U.S.A.

Part No.	Size	Dec. Equiv.	OAL (In.)	Unit
KP73360	#1	.2282	3 1/8	1
KP73361	#2	.2210	3 1/8	1
KP73362	#3	.2130	3 1/4	1
KP73363	#4	.2090	3 1/4	1
KP73364	#5	.2055	3 1/4	1
KP73365	#6	.2040	3 1/4	1
KP73366	#7	.2010	3 3/8	1
KP73367	#8	.1990	3 3/8	1
KP73368	#9	.1960	3 3/8	1
KP73369	#10	.1935	3 3/8	1
KP73370	#11	.1910	3 1/2	1
KP73371	#12	.1890	3 1/2	1
KP73372	#13	.1850	3 1/2	1
KP73373	#14	.1820	3 3/8	1
KP73374	#15	.1800	3 3/8	1
KP73375	#16	.1770	3 3/8	1
KP73376	#17	.1730	3 3/8	1
KP73377	#18	.1695	3 1/4	1
KP73378	#19	.1660	3 1/4	1
KP73379	#20	.1610	3 1/4	1
KP73380	#21	.1590	3 1/4	1
KP73381	#22	.1570	3 1/8	1
KP73382	#23	.1540	3 1/8	1
KP73383	#24	.1520	3 1/8	1
KP73384	#25	.1495	3	1
KP73385	#26	.1470	3	1
KP73386	#27	.1440	3	1
KP73387	#28	.1405	2 7/8	1
KP73388	#29	.1360	2 7/8	1
KP73389	#30	.1285	2 3/4	1
KP73390	#31	.1200	2 3/4	1
KP73391	#32	.1160	2 3/4	1
KP73392	#33	.1130	2 5/8	1
KP73393	#34	.1110	2 5/8	1
KP73394	#35	.1100	2 5/8	1
KP73395	#36	.1065	2 1/2	1
KP73396	#37	.1040	2 1/2	1
KP73397	#38	.1015	2 1/2	1
KP73398	#39	.0995	2 3/8	1
KP73399	#40	.0980	2 3/8	1
KP73400	#41	.0960	2 3/8	1
KP73401	#42	.0935	2 1/4	1
KP73402	#43	.0890	2 1/4	1
KP73403	#44	.0860	2 1/8	1
KP73404	#45	.0820	2 1/8	1
KP150537	#46	.0810	2 1/8	1
KP150536	#47	.785	2	1
KP150535	#48	.0760	2	1
KP150534	#49	.0730	2	1
KP150533	#50	.0700	2	1
KP150532	#51	.0670	2	1
KP150531	#52	.0635	1 7/8	1
KP150530	#53	.0595	1 7/8	1
KP150529	#54	.0550	1 7/8	1
KP150528	#55	.0520	1 7/8	1

Letter Sizes

Surface Treated Part No.	Letter Size	Dec. Equiv.	OAL	Unit
KP150538	F	.2570	4 1/8	1
KP150539	I	.2720	4 1/8	1
KP150540	Q	.3320	4 3/4	1
KP150541	R	.3390	4 3/4	1
KP150542	S	.3480	4 7/8	1
KP150543	U	.3680	5	1

Car-Bide Drills

Solid Carbide Extreme Performance Drills



- Short length, straight flute style
- Solid micrograin carbide
- 140° radius split point provides ease of penetration
- Flute design increases edge strength, and provides good control
- For production or hand drill usage that is no deeper than three times the drill diameter
- Designed to drill difficult materials, including nickel alloys, chrome alloys, steel weldments, titanium alloys, high temperature alloys, and stainless steel
- For use on material up to a 50-65 Rockwell "C" range
- Made in the U.S.A.

Part No.	Dia. Size	Dec. Equiv.	Flute Length	Overall Length	Unit
KP61513	1/8	.1250	7/8	1 7/8	1
KP61515	3/16	.1875	1 1/8	2 3/16	1
KP61517	1/4	.2500	1 3/8	2 1/2	1
KP61518	5/16	.3125	1 3/8	2 13/16	1
KP61519	3/8	.3750	1 13/16	3 1/8	1
KP61521	1/2	.5000	2 1/4	3 3/4	1

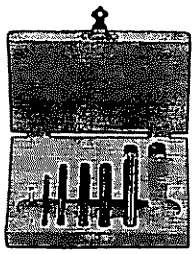
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Cutting Tools - Drill Bits & Sets

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Continued from previous page

Set



- Packaged in solid wood case

Part No.	Description	No. of Pieces	Unit
KP61522	Contains 1 Ea: 1/8, 5/16, 1/4, 5/16, 3/8	5	1

Carbide Tipped Drills



- Designed for drilling glass, tile, mirrors and ceramics
- Spear point reduces cutting pressure for a deaner cut hole
- Carbide tipped point
- M-7 high speed tool steel
- All are Unit = 1

Part No.	Dia. Size	Dec. Equiv.	Actual Dia.	Shank Dia.	OAL (in.)
KP72145	1/8"	.1250	.135	1/4"	2 1/4
KP72146	3/16"	.1875	.197	3/16"	2 9/32
KP72147	1/4"	.2500	.260	3/16"	2 9/32
KP72148	5/16"	.3125	.322	1/4"	3
KP72149	3/8"	.3750	.385	1/4"	3 55/64
KP72150	1/2"	.5000	.515	1/4"	3 55/64

Jobber Length Drill Bits

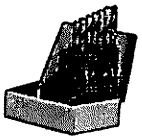
General-Purpose Jobber Length Drill Bits



- 118° point
- High-speed steel construction; provides satisfactory drilling results in a wide variety of materials
- General-purpose jobber length; adapts to all types of drilling equipment
- Designed for drilling in a wide range of materials including steel and cast iron
- Surface treated for added abrasion resistance and improved chip flow
- Made in U.S.A.

Fractional Sizes

Surface-Treated Part No.	Bright Finish Part No.	Dia. (In.)	OAL (In.)	Unit
22353	22353-B	1/16	1 7/8	12
22354	22354-B	5/64	2	12
22355	22355-B	3/32	2 1/4	12
22356	22356-B	7/64	2 5/8	12
22357	22357-B	1/8	2 3/4	12
22358	22358-B	9/64	2 7/8	12
22359	22359-B	5/32	3 1/8	12
22360	22360-B	11/64	3 1/4	12
22361	22361-B	3/16	3 1/2	12
22362	22362-B	13/64	3 5/8	12
22363	22363-B	7/32	3 3/4	12
22364	22364-B	15/64	3 7/8	12
22365	22365-B	1/4	4	12
22366	22366-B	17/64	4 1/8	12
22367	22367-B	9/32	4 1/4	12
22368	22368-B	19/64	4 3/8	6
22369	22369-B	5/16	4 1/2	6
22370	22370-B	21/64	4 5/8	6
22371	22371-B	11/32	4 3/4	6
22372	22372-B	23/64	4 7/8	6
22373	22373-B	3/8	5	6
22374	22374-B	25/64	5 1/8	6
22375	22375-B	13/32	5 1/4	6
22376	22376-B	27/64	5 3/8	6
22377	22377-B	7/16	5 1/2	6
22378	22378-B	29/64	5 5/8	6
22379	22379-B	15/32	5 3/4	6
22380	22380-B	31/64	5 7/8	6
22381	22381-B	1/2	6	6
—	KP65007	1/64	3/4	1
—	KP65008	1/32	1 3/8	1
—	KP65009	3/64	1 3/4	1
—	KP65010	1/16	1 7/8	1
—	KP65011	5/64	2	1
KP65012	—	3/32	2 1/4	1
KP65013	—	7/64	2 5/8	1
KP65014	—	1/8	2 3/4	1
KP65015	—	9/64	2 7/8	1
KP65016	—	5/32	3 1/8	1
KP65017	—	11/64	3 1/4	1
KP65018	—	3/16	3 1/2	1
KP65019	—	13/64	3 5/8	1
KP65020	—	7/32	3 3/4	1
KP65021	—	15/64	3 7/8	1
KP65022	—	1/4	4	1
KP65023	—	17/64	4 1/8	1
KP65024	—	9/32	4 1/4	1
KP65025	—	19/64	4 3/8	1
KP65026	—	5/16	4 1/2	1
KP65027	—	21/64	4 5/8	1
KP65028	—	11/32	4 3/4	1
KP65029	—	23/64	4 7/8	1
KP65030	—	3/8	5	1
KP65031	—	25/64	5 1/8	1
KP65032	—	13/32	5 1/4	1
KP65033	—	27/64	5 3/8	1
KP65034	—	7/16	5 1/2	1
KP65035	—	29/64	5 5/8	1
KP65036	—	15/32	5 3/4	1
KP65037	—	31/64	5 7/8	1
KP65038	—	1/2	6	1



Drill Sets for Fractional Sizes

- Surface Treated

Part No.	Size	No. of Pcs.	Unit
22350	1/16 — 1/2 by 1/64 increments	29	1
22351	1/16 — 1/2 by 1/32 increments	15	1

Wire Gauge Sizes

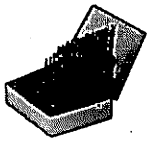
Surface-Treated Part No.	Bright Finish Part No.	Size	Dec. Equiv.	OAL (In.)	Unit
27501	¤27501-B	1	0.2280	3 1/8	12
27502	¤27502-B	2	0.2210	3 1/8	12
27503	¤27503-B	3	0.2130	3 1/4	12
27504	¤27504-B	4	0.2090	3 1/4	12
27505	¤27505-B	5	0.2055	3 1/4	12
27506	¤27506-B	6	0.2040	3 1/4	12
27507	¤27507-B	7	0.2010	3 3/8	12
27508	¤27508-B	8	0.1990	3 3/8	12
27509	¤27509-B	9	0.1960	3 3/8	12
27510	¤27510-B	10	0.1935	3 3/8	12
27511	¤27511-B	11	0.1910	3 1/2	12
27512	¤27512-B	12	0.1890	3 1/2	12
27513	¤27513-B	13	0.1850	3 1/2	12
27514	¤27514-B	14	0.1820	3 3/8	12
27515	¤27515-B	15	0.1800	3 3/8	12
27516	¤27516-B	16	0.1770	3 3/8	12
27517	¤27517-B	17	0.1730	3 3/8	12
27518	¤27518-B	18	0.1695	3 1/4	12
27519	¤27519-B	19	0.1660	3 1/4	12
27520	¤27520-B	20	0.1610	3 1/4	12
27521	¤27521-B	21	0.1590	3 1/4	12
27522	¤27522-B	22	0.1570	3 1/8	12
27523	¤27523-B	23	0.1540	3 1/8	12
27524	¤27524-B	24	0.1520	3 1/8	12
27525	¤27525-B	25	0.1495	3	12
27526	¤27526-B	26	0.1470	3	12
27527	¤27527-B	27	0.1440	3	12
27528	¤27528-B	28	0.1405	2 7/8	12
27529	¤27529-B	29	0.1360	2 7/8	12
27530	¤27530-B	30	0.1285	2 3/4	12
27531	¤27531-B	31	0.1200	2 3/4	12
27532	¤27532-B	32	0.1160	2 3/4	12
27533	¤27533-B	33	0.1130	2 5/8	12
27534	¤27534-B	34	0.1110	2 5/8	12
27535	¤27535-B	35	0.1100	2 5/8	12
27536	¤27536-B	36	0.1065	2 1/2	12
27537	¤27537-B	37	0.1040	2 1/2	12
27538	¤27538-B	38	0.1015	2 1/2	12
27539	¤27539-B	39	0.0995	2 3/8	12
27540	¤27540-B	40	0.0980	2 3/8	12
27541	¤27541-B	41	0.0960	2 3/8	12
27542	¤27542-B	42	0.0935	2 1/4	12
27543	¤27543-B	43	0.0890	2 1/4	12
27544	¤27544-B	44	0.0860	2 1/8	12
27545	¤27545-B	45	0.0820	2 1/8	12
27546	¤27546-B	46	0.0810	2 1/8	12
27547	¤27547-B	47	0.0785	2	12
27548	¤27548-B	48	0.0760	2	12
27549	¤27549-B	49	0.0730	2	12
27550	¤27550-B	50	0.0700	2	12
27551	¤27551-B	51	0.0670	2	12
27552	¤27552-B	52	0.0635	1 7/8	12
27553	¤27553-B	53	0.0595	1 7/8	12
27554	¤27554-B	54	0.0550	1 7/8	12
27555	¤27555-B	55	0.0520	1 7/8	12
27556	¤27556-B	56	0.0465	1 3/4	12
27557	¤27557-B	57	0.0430	1 3/4	12
27558	¤27558-B	58	0.0420	1 5/8	12
27559	¤27559-B	59	0.0410	1 5/8	12
27560	¤27560-B	60	0.0400	1 5/8	12
¤27561	—	61	0.0390	1 5/8	12
¤27562	—	62	0.0380	1 1/2	12
¤27563	—	63	0.0370	1 1/2	12
¤27564	—	64	0.0360	1 1/2	12
¤27565	—	65	0.0350	1 1/2	12
¤27566	—	66	0.0330	1 3/8	12
¤27567	—	67	0.0320	1 3/8	12
¤27568	—	68	0.0310	1 3/8	12

Continued on next page

Cutting Tools - Drill Bits & Sets

Continued from previous page

Surface-Treated Part No.	Bright Finish Part No.	Size	Dec. Equiv.	OAL (In.)	Unit
¤27569	—	69	0.0292	1⅜	12
¤27570	—	70	0.0280	1¼	12
¤27571	—	71	0.0260	1¼	12
¤27572	—	72	0.0250	1⅛	12
¤27573	—	73	0.0240	1⅛	12
¤27574	—	74	0.0225	1	12
¤27575	—	75	0.0210	1	12
¤27576	—	76	0.0200	⅛	12
¤27577	—	77	0.0180	⅛	12
¤27578	—	78	0.0160	⅛	12
¤27579	—	79	0.0145	¾	12
¤27580	—	80	0.0135	¾	12
KP65042	—	#1	.2280	3⅞	1
KP65043	—	#2	.2210	3⅞	1
KP65044	—	#3	.2130	3¾	1
KP65045	—	#4	.2090	3¾	1
KP65046	—	#5	.2055	3¾	1
KP65047	—	#6	.2040	3¾	1
KP65048	—	#7	.2010	3⅝	1
KP65049	—	#8	.1990	3⅝	1
KP65050	—	#9	.1960	3⅝	1
KP65051	—	#10	.1935	3⅝	1
KP65052	—	#11	.1910	3½	1
KP65053	—	#12	.1890	3½	1
KP65054	—	#13	.1850	3½	1
KP65055	—	#14	.1820	3⅜	1
KP65056	—	#15	.1800	3⅜	1
KP65057	—	#16	.1770	3⅜	1
KP65058	—	#17	.1730	3⅜	1
KP65059	—	#18	.1695	3¼	1
KP65060	—	#19	.1660	3¼	1
KP65061	—	#20	.1610	3¼	1
KP65062	—	#21	.1590	3¼	1
KP65063	—	#22	.1570	3⅛	1
KP65064	—	#23	.1540	3⅛	1
KP65065	—	#24	.1520	3⅛	1
KP65066	—	#25	.1495	3	1
KP65067	—	#26	.1470	3	1
KP65068	—	#27	.1440	3	1
KP65069	—	#28	.1405	2⅞	1
KP65070	—	#29	.1360	2⅞	1
KP65071	—	#30	.1285	2¾	1
KP65072	—	#31	.1200	2¾	1
KP65073	—	#32	.1160	2¾	1
KP65074	—	#33	.1130	2⅝	1
KP65075	—	#34	.1110	2⅝	1
KP65076	—	#35	.1100	2⅝	1
KP65077	—	#36	.1065	2½	1
KP65078	—	#37	.1040	2½	1
KP65079	—	#38	.1015	2½	1
KP65080	—	#39	.0995	2⅜	1
KP65081	—	#40	.0980	2⅜	1
KP65082	—	#41	.0960	2⅜	1
KP65083	—	#42	.0935	2¼	1
KP65084	—	#43	.0890	2¼	1
KP65085	—	#44	.0860	2⅛	1
KP65086	—	#45	.0820	2⅛	1
KP65087	—	#46	.0810	2⅛	1
KP65088	—	#47	.0785	2	1
KP65089	—	#48	.0760	2	1
KP65090	—	#49	.0730	2	1
KP65091	—	#50	.0700	2	1
KP65092	—	#51	.0670	2	1
KP65093	—	#52	.0635	1⅞	1
KP65094	—	#53	.0595	1⅞	1
KP65095	—	#54	.0550	1⅞	1
KP65096	—	#55	.0520	1⅞	1
KP65097	—	#56	.0465	1¾	1
KP65098	—	#57	.0430	1¾	1
KP65099	—	#58	.0420	1⅝	1
KP65100	—	#59	.0410	1⅝	1
KP65101	—	#60	.0400	1⅝	1
—	KP64822	#61	.0390	1⅝	1
—	KP64823	#62	.0380	1½	1
—	KP64824	#63	.0370	1½	1
—	KP64825	#64	.0360	1½	1
—	KP64826	#65	.0350	1½	1
—	KP64827	#66	.0330	1⅜	1
—	KP64828	#67	.0320	1⅜	1
—	KP64829	#68	.0310	1⅜	1
—	KP64830	#69	.0292	1⅜	1
—	KP64831	#70	.0280	1¼	1
—	KP64832	#71	.0260	1¼	1
—	KP64833	#72	.0250	1⅛	1
—	KP64834	#73	.0240	1⅛	1
—	KP64835	#74	.0225	1	1
—	KP64836	#75	.0210	1	1
—	KP64837	#76	.0200	⅞	1
—	KP64838	#77	.0180	⅞	1
—	KP64839	#78	.0160	⅞	1
—	KP64840	#79	.0145	¾	1
—	KP64841	#80	.0135	¾	1



Drill Set for Wire Gauge Sizes

- Surface Treated

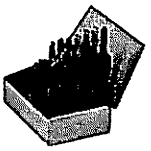
Part No.	Description	No. of Pcs.	Unit
27500	Sizes #1 through #60 in sturdy metal index	60	1

Letter Sizes

- Jobber Length
- 118° point

Surface-Treated Part No.	Bright Finish Part No.	Letter Size	Dec. Equiv.	OAL (In.)	Unit
22400-A	¤22400-AB	A	0.2340	3⅞	12
22400-B	¤22400-BB	B	0.2380	4	12
22400-C	¤22400-CB	C	0.2420	4	12
22400-D	¤22400-DB	D	0.2460	4	12
22400-E	¤22400-EB	E	0.2500	4	12
22400-F	¤22400-FB	F	0.2570	4⅛	12
22400-G	¤22400-GB	G	0.2610	4⅛	12
22400-H	¤22400-HB	H	0.2660	4⅛	12
22400-I	¤22400-IB	I	0.2720	4⅛	12
22400-J	¤22400-JB	J	0.2770	4⅛	12
22400-K	¤22400-KB	K	0.2810	4¼	12
22400-L	¤22400-LB	L	0.2900	4¼	12
22400-M	¤22400-MB	M	0.2950	4⅜	6
22400-N	¤22400-NB	N	0.3020	4⅜	6
22400-O	¤22400-OB	O	0.3160	4½	6
22400-P	¤22400-PB	P	0.3230	4⅝	6
22400-Q	¤22400-QB	Q	0.3320	4¾	6
22400-R	¤22400-RB	R	0.3390	4¾	6
22400-S	¤22400-SB	S	0.3480	4⅞	6
22400-T	¤22400-TB	T	0.3580	4⅞	6
22400-U	¤22400-UB	U	0.3680	5	6
22400-V	¤22400-VB	V	0.3770	5	6
22400-W	¤22400-WB	W	0.3860	5⅛	6
22400-X	¤22400-XB	X	0.3970	5⅛	6
22400-Y	¤22400-YB	Y	0.4040	5¼	6
22400-Z	¤22400-ZB	Z	0.4130	5¼	6
KP65102	—	A	.2340	3⅞	1

Surface-Treated Part No.	Bright Finish Part No.	Letter Size	Dec. Equiv.	OAL (In.)	Unit
KP65103	—	B	.2380	4	1
KP65104	—	C	.2420	4	1
KP65105	—	D	.2460	4	1
KP65106	—	E	.2500	4	1
KP65107	—	F	.2570	4⅛	1
KP65108	—	G	.2610	4⅛	1
KP65109	—	H	.2660	4⅛	1
KP65110	—	I	.2720	4⅛	1
KP65111	—	J	.2770	4⅛	1
KP65112	—	K	.2810	4¼	1
KP65113	—	L	.2900	4¼	1
KP65114	—	M	.2950	4⅜	1
KP65115	—	N	.3020	4⅜	1
KP65116	—	O	.3160	4½	1
KP65117	—	P	.3230	4⅝	1
KP65118	—	Q	.3320	4¾	1
KP65119	—	R	.3390	4¾	1
KP65120	—	S	.3480	4⅞	1
KP65121	—	T	.3580	4⅞	1
KP65122	—	U	.3680	5	1
KP65123	—	V	.3770	5	1
KP65124	—	W	.3860	5⅛	1
KP65125	—	X	.3970	5⅛	1
KP65126	—	Y	.4040	5¼	1
KP65127	—	Z	.4130	5¼	1



Drill Set for Letter Sizes

- Surface Treated

Part No.	Description	No. of Pcs.	Unit
22400	Sizes A through Z in sturdy metal index	26	1





Tip Drill Set

- For cleaning and sizing small openings in cutting torch tips, carburetor jets, furnace orifices and more
- This compact drill holds twelve even sized drills, numbers 52 through 74
- All aluminum handle and knurled for a sure grip

Part No.	Description	Unit
KP79084	Tip Drill Set	1
KP79085	12 Replacement Drills	1

Metric Sizes

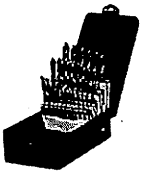
Surface Treated Finish Part No.	Bright Finish Part No.	Size	Dec. Equiv.	OAL (mm)	Unit
27400	—	0.5	0.0197	22	12
27402	—	1	0.0394	34	12
27403	—	1.5	0.0591	40	12
27404	—	2	0.0787	49	12
27405	—	2.5	0.0984	57	12
27406	—	3	0.1181	61	12
27409	—	3.4	0.1339	70	12
27410	—	3.5	0.1378	70	12

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Surface Treated Finish Part No.	Bright Finish Part No.	Size	Dec. Equiv.	OAL (mm)	Unit
27411	—	4	0.1575	75	12
27412	—	4.2	0.1654	75	12
27413	—	4.5	0.1772	80	12
27414	—	5	0.1968	86	12
27418	—	5.5	0.2165	93	12
27419	—	6	0.2362	93	12
27421	—	6.5	0.2559	101	12
27422	—	7	0.2756	109	12
27423	—	7.5	0.2953	109	12
27424	—	8	0.3150	117	6
27425	—	8.5	0.3346	117	6
27426	—	9	0.3543	125	6
27427	—	9.5	0.3740	125	6
27429	—	10	0.3937	133	6
27430	—	10.5	0.4134	133	6
27431	—	11	0.4331	142	6
27432	—	11.5	0.4528	142	6
27433	—	12	0.4724	151	6
27434	—	12.5	0.4921	151	6
27435	—	13	0.5118	151	6
¤27436	—	13.5	0.5315	160	6
¤27437	—	14	0.5512	160	6
¤27438	—	14.5	0.5709	169	6
¤27439	—	15	0.5906	169	6
¤27440	—	15.5	0.6102	178	6
¤27441	—	16	0.6299	178	6
¤27442	—	16.5	0.6496	184	6
¤27443	—	17	0.6693	184	6
¤27444	—	17.5	0.6890	191	6
—	KP70163	1.00MM	.0394	34	1
—	KP70164	1.50MM	.0591	40	1
—	KP70165	2.00MM	.0787	49	1
—	KP70166	2.50MM	.0984	57	1
—	KP70167	3.00MM	.1181	61	1
—	KP70168	3.50MM	.1378	70	1
—	KP70169	4.00MM	.1575	75	1
—	KP70170	4.50MM	.1772	80	1
—	KP70171	5.00MM	.1968	86	1
—	KP70172	5.50MM	.2165	93	1
—	KP70173	6.00MM	.2362	93	1
—	KP70174	6.50MM	.2559	101	1
—	KP70175	7.00MM	.2756	109	1
—	KP70176	7.50MM	.2953	109	1
—	KP70177	8.00MM	.3150	117	1
—	KP70178	8.50MM	.3346	117	1
—	KP70179	9.00MM	.3543	125	1
—	KP70180	9.50MM	.3740	133	1
—	KP70181	10.00MM	.3937	133	1
—	KP70182	10.50MM	.4134	137	1
—	KP70183	11.00MM	.4331	142	1
—	KP70184	11.50MM	.4528	142	1
—	KP70185	12.00MM	.4724	151	1
—	KP70186	12.50MM	.4921	151	1
—	KP70187	13.00MM	.5118	151	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.



Drill Set for Metric Sizes

Part No.	Description	No. of Pcs.	Unit
C96153	1 mm to 13 mm .5 increments	25	1

Combined Drill and Tap

Combined Drill & Tap



- High production tool designed to drill and tap in one pass
- Reduces machining operations and subsequent parts handling
- Drill end features a self-centering helical point
- All taps are manufactured to a GH-3 pitch diameter limit
- Fits standard tap holders
- Recommended for through holes up to twice the nominal diameter
- Excellent choice in CNC tapping where the ability to effectively change speeds from drilling to tapping can significantly improve productivity
- Unit for each is 1

Part No.	Size Pitch	OAL (In.)	Thd. Lngth. (In.)	Drill Lgth. (In.)	Drill Dia. (In.)
KP60117	4-40 NC	1⅛	3⁄16	¼	.091
20502	6-32 NC	2	7⁄16	¼	.112
20503	8-32 NC	2⅛	15⁄32	9⁄32	.138
20504	10-24 NC	2⅜	9⁄16	5⁄16	.155
20504-1	10-32 NC	2⅜	9⁄16	5⁄16	.165
KP60127	12-24 NC	2⅜	21⁄32	15⁄32	.180
20505	¼-20 NC	2½	5⁄8	3⁄8	.208
20506	5⁄16-18 NC	2 25⁄32	21⁄32	15⁄32	.266
20507	3⁄8-16 NC	2 15⁄16	23⁄32	17⁄32	.322
20509	½-13 NC	4 1⁄16	1 3⁄16	1 1⁄8	.435

Reduced Shank Drills

Silver & Deming Drills ½" Reduced Shank

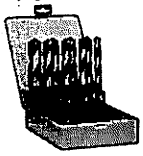


- High-speed steel
- 118° conventional drill point
- 6" O.A.L.; 3" flute length
- Black oxide treated; reduces galling and chip welding; increases the tools ability to retain lubricants
- Abrasion resistant
- Recommended for use in drill presses and portable electric drills
- Made in U.S.A.
- Standard 32nd and 64th sizes available through SSG

Part No.	Size (In.)	Dec. Equiv.	Unit
28650	33⁄64	.5156	1
28651	17⁄32	.5312	1
28652	35⁄64	.5469	1
28653	9⁄16	.5625	1
28654	37⁄64	.5781	1
28655	19⁄32	.5937	1
28656	39⁄64	.6094	1
28657	5⁄8	.6250	1
28658	41⁄64	.6406	1
28659	21⁄32	.6562	1
28660	43⁄64	.6719	1
28661	11⁄16	.6875	1
28662	45⁄64	.7031	1
28663	23⁄32	.7188	1
28664	47⁄64	.7344	1
28665	¾	.7500	1
28666	49⁄64	.7656	1
28667	25⁄32	.7812	1
28668	51⁄64	.7969	1
28669	13⁄16	.8125	1
28670	53⁄64	.8281	1
28671	27⁄32	.8438	1
28672	55⁄64	.8594	1
28673	⅞	.8750	1
28674	57⁄64	.8906	1
28675	29⁄32	.9062	1
28676	59⁄64	.9219	1
28677	15⁄16	.9375	1
28678	61⁄64	.9531	1
28679	31⁄32	.9688	1
28680	63⁄64	.9844	1
28681	1	1.0000	1
28681-1116	1 1⁄16	1.0625	1
28681-11/8	1⅛	1.1250	1
28681-1316	1 3⁄16	1.1850	1
28681-11/4	1¼	1.250	1
28681-1516	1 5⁄16	1.312	1
28681-13/8	1⅜	1.375	1
28681-11/2	1½	1.500	1

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Silver & Deming Set

Part No.	Size Range (In.)	No. of Pcs.	Unit
28685	9/16 — 1 1/16 increments	8	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Unibit Step Drills

Unibit® Step Drills & Set





- Constructed of industrial-grade, high-speed molybdenum steel, heat treated to a hardness of 61-63 RC ensuring maximum strength and long life
- Exclusive single radial concave flute design allows for drilling of perfectly round holes in thin material quickly and with less effort
- TIN SURFACE TREATMENT provides greater lubricity, reducing friction and the related heat stresses when drilling stainless steel and alloy steels - increases tool life
- Point design permits easy drilling into all materials without center drilling or center punching
- Can be used for drilling: steel, copper, brass, aluminum, wood, composition board, plexiglass, and plastics
- Set contains one piece each Unibit® No. 1, 2, and 3
- Unit is 1 for all part numbers

Individual Drills

TIN Part No.	Part No.	Unibit No.	No. of Holes	Size Range	Increments
22190	22188	1	13	1/8-1/2	1/32
22191	22188-1	2	6	3/16-1/2	1/16
22192	22189	3	9	1/4-3/4	1/16
22193	22189-1	4	12	3/16-7/8	1/16
—	22189-2	5	10	1/4-13/8	1/8
—	22189-3	10	1	1/2	—
—	22189-4	11	1	7/8	—
—	22189-5	12	1	3/8	—
—	22189-6	13	1	1 1/8	—
—	22189-7	20	8	9/16-1	1/16

Set

Part No.	Contents	Unit
22187	1 each Unibit® #1, #2, #3	1

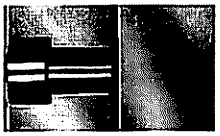
CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

HSS Step Drills

Standard Step Drills

- Jobbers length
- High speed steel
- One tool does two jobs in a single pass
- Tools can be sharpened repeatedly and easily modified for any special length-of-step

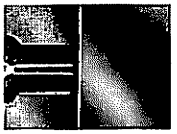
For Drilling & Counterboring Cap Screw Clearance Holes



Part No.	Screw Size	Minor Dia.	Major Dia.	Step Lgth.
¤28782	No. 10	.204	"Q"	5/8
¤28783	1/4	9/32	13/32	11/16
¤28784	5/16	11/32	1/2	3/4

Part No.	Flute Lgth. (In.)	OAL (In.)	Unit
¤28782	3 7/16	4 3/4	1
¤28783	3 7/8	5 1/4	1
¤28784	4 1/2	6	1

For Drilling & Countersinking 82° Flat Head Machine Screws



Part No.	Screw Size	Minor Dia.	Major Dia.	Step Lgth.
¤28792	No. 10	.196	"W"	5/8
¤28794	5/16	.320	5/8	3/4
¤28795	3/8	.383	3/4	7/8
¤28796	1/2	.510	7/8	1

Part No.	Flute Lgth.	OAL (In.)	Unit
¤28792	3 3/4	5 1/8	1
¤28794	5 3/16	7 1/8	1
¤28795	5 5/8	7 5/8	1
¤28796	3 1/2	5 1/2*	1

* Shorter than jobbers length

Extra Length Drills

Long Boy Extra Length Bits



- High speed steel construction for maximum strength and durability
- Straight shank; 118° point
- Bright finish
- Recommended for a wide range of deep hole drilling applications

Part No.	Dia. (In.)	OAL	Flute Length	Unit
C105408	1/8	12	9	1
KP86128	1/8	8	6	1
C105412	3/16	12	9	1
KP86135	1/4	8	6	1
C105416	1/4	12	9	1
KP86131	11/64	8	6	1
KP86132	3/16	8	6	1
KP86134	7/32	8	6	1
C105420	5/16	12	9	1
KP86138	5/16	8	6	1
C105424	3/8	12	9	1
C105428	7/16	12	9	1
C105432	1/2	12	9	1
C105434	9/16	12	9	1

Taper Shank Drills

Taper Shank Drills — Standard Shank



- Fractional sizes
- High speed steel designed for high performance drilling in a wide range of materials
- 118° chisel point — general purpose use
- Black oxide finish for added abrasion resistance and improved chip removal
- Manufactured to USCTI specifications and tolerances
- Standard 32nd and 64th sizes are available through SSG

Part No.	Size (In.)	Morse Taper No.	Approx. Flute Lgth. (In.)	Approx. OAL (In.)	Unit
27000	1/8	1	1 7/8	5 1/8	1
27004	3/16	1	2 1/2	5 3/4	1
27008	1/4	1	2 7/8	6 1/8	1
27012	5/16	1	3 1/8	6 3/8	1
27016	3/8	1	3 1/2	6 3/4	1
27020	7/16	1	3 7/8	7 1/4	1
27024	1/2	2	4 3/8	8 1/4	1
27026	17/32	2	4 5/8	8 1/2	1
27028	9/16	2	4 7/8	8 3/4	1
27030	19/32	2	4 7/8	8 3/4	1
27032	5/8	2	4 7/8	8 3/4	1
27034	21/32	2	5 1/8	9	1
27036	11/16	2	5 3/8	9 1/4	1
27038	23/32	2	5 5/8	9 1/2	1
27040	3/4	2	5 7/8	9 3/4	1
27042	25/32	2	6	9 7/8	1
27044	13/16	3	6 1/8	10 3/4	1
27046	27/32	3	6 1/8	10 3/4	1
27048	7/8	3	6 1/8	10 3/4	1
27050	29/32	3	6 1/8	10 3/4	1
27052	15/16	3	6 1/8	10 3/4	1
27054	31/32	3	6 3/4	11	1
27056	1	3	6 3/4	11	1
27060	1 1/16	3	6 3/4	11 1/4	1
27064	1 1/8	4	7 1/8	12 3/4	1
27068	1 3/16	4	7 3/8	13	1
27072	1 1/4	4	7 7/8	13 1/2	1
¤27076	1 5/16	4	8 3/8	14 1/4	1
¤27080	1 3/8	4	8 3/8	14 1/2	1
¤27084	1 7/16	4	9 1/8	14 3/4	1
¤27088	1 1/2	4	9 3/8	15	1
¤27092	1 9/16	5	9 3/8	16 5/8	1
¤27096	1 5/8	5	10	17	1

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Part No.	Size (In.)	Morse Taper No.	Approx. Flute Lgth. (In.)	Approx. OAL (In.)	Unit
¤27100	1 1/16	5	10 1/8	17 1/8	1
¤27104	1 1/4	5	10 1/8	17 1/8	1
¤27108	1 1/8	5	10 3/8	17 3/8	1
¤27112	2	5	10 3/8	17 3/8	1
¤27116	2 1/8	5	10 1/4	17 3/8	1
¤27120	2 1/4	5	10 1/8	17 3/8	1
¤27123	2 3/8	5	10 1/8	17 3/8	1
¤27126	2 1/2	5	11 1/4	18 3/4	1
¤27129	2 5/8	5	11 1/8	19 1/2	1
¤27131	2 3/4	5	12 3/4	20 3/8	1
¤27135	2 7/8	5	13 3/8	21 1/8	1
¤27137	3	5	14	21 3/4	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Taper Shank Drills — Shanks Smaller Than Standard



- Fractional sizes
- 118° general-purpose point
- Black oxide finish for added abrasion resistance and improved chip removal
- High-speed steel designed for high performance drilling in a wide range of different materials
- Manufactured to USCTI specifications and tolerance

Part No.	Size (In.)	Morse Taper No.	Approx. Flute Lgth. (In.)	Approx. OAL (In.)	Unit
¤27161	1/2	1	4 3/8	7 3/4	1
¤27165	9/16	1	4 7/8	8 1/4	1
¤27168	13/16	2	6 1/8	10	1
¤27172	7/8	2	6 1/8	10	1
¤27175	1	2	6 1/4	10 1/8	1
¤27179	1 1/8	3	7 1/8	11 3/4	1
¤27183	1 3/16	3	7 3/8	12	1
¤27187	1 1/4	3	7 7/8	12 1/2	1
¤27191	1 5/16	4	9 5/8	15 1/4	1
¤27195	1 3/8	4	10	15 5/8	1
¤27199	1 1/16	4	10 1/8	15 3/4	1

Part No.	Size (In.)	Morse Taper No.	Approx. Flute Lgth. (In.)	Approx. OAL (In.)	Unit
¤27203	1 3/4	4	10 3/8	16 1/4	1
¤27205	1 13/16	4	10 3/8	16 1/4	1
¤27207	1 7/8	4	10 1/2	16 1/2	1
¤27210	1 15/16	4	10 5/8	16 5/8	1
¤27212	2	4	10 5/8	16 5/8	1
¤27214	2 1/16	4	10 1/4	16 1/4	1
¤27216	2 1/8	4	10 1/4	16 1/4	1
¤27220	2 1/4	4	10 1/8	16 1/8	1
¤27222	2 3/8	4	10 1/8	16 1/8	1
¤27224	2 1/2	4	11 1/4	17 1/4	1
¤27225	2 5/8	4	11 7/8	18	1
¤27226	2 3/4	4	12 3/4	19 1/8	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Taper Shank Drills — Stub Length



- Fractional sizes
- 118° chisel point-general purpose
- Black-oxide finish for added abrasion resistance and improved chip removal
- High-speed steel designed for high-performance drilling in a wide range of different materials
- Recommended for use in boring mills, screw machines and lathes, or where short projection is required
- Manufactured to USCTI specifications and tolerances

Part No.	Size (In.)	Morse Taper No.	Approx. OAL (In.)	Approx. Flute Lgth. (In.)	Unit
¤27250	2	5	12	5	1
¤27252	2 1/8	5	12	5	1
¤27254	2 1/4	5	12	5	1
¤27256	2 3/8	5	12	5	1
¤27258	2 1/2	5	12	5	1
¤27259	2 5/8	5	12	5	1
¤27260	2 3/4	5	12	5	1
¤27261	2 7/8	5	12	5	1
¤27262	3	5	12	5	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Morse Taper Sleeves



- Available in hardened tang, or hardened and ground throughout
- Allows easy transition from small morse taper shank tool to larger size morse taper spindles
- For use with Bowman taper shank drills
- Unit is 1 for all part numbers

Hard Tang Only Part No.	Hard & Ground Part No.	Morse Taper No. Size	Internal	External	OAL (In.)
¤28700	¤28712	1 to 2	1	2	3 9/16
¤28701	¤28713	1 to 3	1	3	3 15/16
¤28702	¤28714	1 to 4	1	4	4 7/8
¤28703	¤28715	1 to 5	1	5	6 1/8
¤28704	¤28716	2 to 3	2	3	4 7/16
¤28705	¤28717	2 to 4	2	4	4 7/8
¤28706	¤28718	2 to 5	2	5	6 1/8
¤28707	¤28719	3 to 4	3	4	5 3/4

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Morse Taper Extension Sockets with Hardened Tang



- Perform similarly to taper sleeves — longer length allows you to get at places unreachable with normal length drills
- Adapt small taper shanks to larger spindles and larger taper shanks to smaller spindles

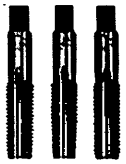
Part No.	Size	OAL (In.)	Unit
¤28724	1 to 2	6 7/8	1
¤28725	1 to 3	6 7/8	1
¤28726	1 to 4	7 7/8	1
¤28727	1 to 5	9 1/16	1
¤28728	2 to 1	6 1/4	1
¤28730	2 to 3	7 1/2	1
¤28731	2 to 4	8 1/2	1
¤27832	2 to 5	9 3/4	1
¤28733	3 to 2	7 5/8	1
¤28735	3 to 4	9 3/8	1
¤28736	3 to 5	10 5/8	1
¤28737	4 to 2	8 1/2	1
¤28738	4 to 3	9 3/8	1
¤28740	4 to 5	11 5/8	1
¤28742	5 to 4	11 1/16	1

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Cutting Tools - Taps

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UNC (USS)



3 Piece Tap Set

Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)	No. Flutes	Tap Drill Size
20670	No. 6	32	1 1/16	3	No. 36
20672	No. 8	32	3/4	4	No. 29
20674	No. 10	24	7/8	4	No. 25
20676	No. 12	24	1 5/16	4	No. 16
20678	1/4	20	1	4	No. 7
20680	5/16	18	1 1/8	4	No. F
20682	3/8	16	1 1/4	4	5/16
20684	7/16	14	1 7/16	4	No. U
20686	1/2	13	1 21/32	4	27/64
20688	9/16	12	1 21/32	4	31/64
20690	5/8	11	1 13/16	4	17/32
20692	3/4	10	2	4	21/32
20694	7/8	9	2 7/32	4	49/64
20696	1	8	2 1/2	4	7/8



Individual Taps

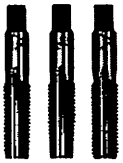
Taper Part No.	Plug Part No.	Bottom Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)
*	20698	*	No. 1	64	3/16
*	20699	*	No. 2	56	7/16
*	20699-1	*	No. 3	48	1/2
*	20700	*	No. 4	40	9/16
*	20701	*	No. 5	40	5/8
20718	20702*	20733*	No. 6	32	1 1/16
20719	20703	20734	No. 8	32	3/4
20720	20704	20735	No. 10	24	7/8
20721	20705	20736	No. 12	24	1 5/16
20722	20706	20737	1/4	20	1
20723	20707	20738	5/16	18	1 1/8
20724	20708	20739	3/8	16	1 1/4
20725	20709	20740	7/16	14	1 7/16
20726	20710	20741	1/2	13	1 21/32
20727	20711	20742	9/16	12	1 21/32
20728	20712	20743	5/8	11	1 13/16
20729	20713	20744	3/4	10	2
20730	20714	20745	7/8	9	2 7/32
20731	20715	20746	1	8	2 1/2

*Item not available

NOTE: Unit is one for each tap set. Unit is one for each individual tap.

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

UNF (SAE)



3 Piece Tap Set

Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)	No. Flute	Tap Drill Size
20671	No. 6	40	1 1/16	3	No. 33
20673	No. 8	36	3/4	4	No. 29
20675	No. 10	32	7/8	4	No. 21
20677	No. 12	28	1 5/16	4	No. 14
20679	1/4	28	1	4	No. 3
20681	5/16	24	1 1/8	4	No. I
20683	3/8	24	1 1/4	4	No. Q
20685	7/16	20	1 7/16	4	25/64
20687	1/2	20	1 21/32	4	29/64
20689	9/16	18	1 21/32	4	1/2
20691	5/8	18	1 13/16	4	9/16
20693	3/4	16	2	4	21/32
20695	7/8	14	2 7/32	4	49/64
20697	1	12	2 1/2	4	57/64
20697-1	1	14	2 1/2	4	15/16

Individual Taps



Taper Part No.	Plug Part No.	Bottom Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)
*	20747	*	No. 0	80	5/16
*	20748	*	No. 1	72	3/8
*	20749	*	No. 2	64	7/16
*	20750	*	No. 3	56	1/2
*	20751	*	No. 4	48	9/16
*	20751-1	*	No. 5	44	5/8
20768	20752	20783	No. 6	40	1 1/16
20769	20753	20784	No. 8	36	3/4
20770	20754	20785	No. 10	32	7/8
20771	20755	20786	No. 12	28	1 5/16
20772	20756	20787	1/4	28	1
20773	20757	20788	5/16	24	1 1/8
20774	20758	20789	3/8	24	1 1/4
20775	20759	20790	7/16	20	1 7/16
20776	20760	20791	1/2	20	1 21/32
20777	20761	20792	9/16	18	1 21/32
20778	20762	20793	5/8	18	1 13/16
20779	20763	20794	3/4	16	2
20780	20764	20795	7/8	14	2 7/32
20781	20765	20796	1	12	2 1/2
20781-1	20765-1	20796-1	1	14	2 1/2

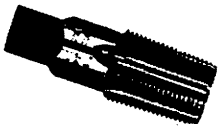
*Item not available

NOTE: Unit is one for each tap set. Unit is one for each individual tap.

NOTE: Bowman carries 1"-14 pitch thread fasteners only. Be sure a 1"-14 tap is used when tapping a hole for these fasteners.

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® Pipe Taps



- NPT and NPS thread forms
- Unit is 1 for all part numbers

NPT

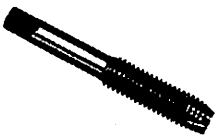
Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)	No. Flutes	Tap Drill Size
20649	1/16	27	1 1/16	4	D
20650	1/8	27	3/4	4	No. R
20651	1/4	18	1 1/16	4	7/16
20652	3/8	18	1 1/16	4	37/64
20653	1/2	14	1 3/8	4	23/32
20654	3/4	14	1 3/8	5	59/64
20655	1	11 1/2	1 3/4	5	1 5/32

NPS

Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)	No. Flutes	Tap Drill Size
20600	1/8	27	3/4	4	11/32
20601	1/4	18	1 1/16	4	29/64
20602	3/8	18	1 1/16	4	37/64
20603	1/2	14	1 3/8	4	23/32
20604	3/4	14	1 3/8	5	59/64
20605	1	11 1/2	1 3/4	5	1 5/32

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

Quad-Cut® "Spiral-Point" Gun Taps



- Plug style
- UNC and UNF thread form
- Special spiral point cleanly shears chips; curls them forward ahead of the tap as it threads; ideal for quick tapping in through hole applications
- Unit is 1 for all part numbers

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Cutting Tools - Taps

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UNC (USS)

Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)	No. Flutes	Tap Drill Size
20338	#1	64	3/8	2	No. 53
20340	#2	56	7/16	2	No. 51
20342	#3	48	1/2	2	5/64
20610	#4	40	9/16	2	No. 43
20612	#6	32	11/16	2	No. 36
20614	#8	32	3/4	2	No. 29
20616	#10	24	7/8	2	No. 25
20618	#12	24	15/16	2	No. 17
20660	1/4	20	1	2	No. 7
20661	5/16	18	1 1/8	2	No. F
20662	3/8	16	1 1/4	3	5/16
20663	7/16	14	1 7/16	3	No. U
20664	1/2	13	1 21/32	3	27/64
20344	9/16	12	1 21/32	3	31/64
20346	5/8	11	1 13/16	3	17/32
20348	3/4	10	2	3	21/32
20350	7/8	9	2 1/32	4	49/64

UNF (SAE)

Part No.	Dia. (In.)	Threads Per Inch	Thread Lgth. (In.)	No. Flutes	Tap Drill Size
20337	#0	80	5/16	2	3/64
20339	#1	72	3/8	2	No. 53
20341	#2	64	7/16	2	No. 50
20343	#3	56	1/2	2	No. 46
20611	#4	48	9/16	2	No. 42
20613	#6	40	11/16	2	No. 33
20615	#8	36	3/4	2	No. 29
20617	#10	32	7/8	2	No. 21
20619	#12	28	15/16	2	No. 15
20665	1/4	28	1	2	No. 3
20666	5/16	24	1 1/8	2	No. I
20667	3/8	24	1 1/4	3	No. Q
20668	7/16	20	1 7/16	3	25/64
20669	1/2	20	1 21/32	3	29/64
20345	9/16	18	1 21/32	3	33/64
20347	5/8	18	1 13/16	3	37/64
20349	3/4	16	2	3	11/16
20349-1	7/8	14	2 1/32	4	13/16

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

HSS Taps

Metric Hand Taps



- High-speed steel
- Ground thread
- Dimensions conform to standards set by the Metal Cutting Tool Institute
- Sizes follow the ISO metric thread recommendations
- Tap pitch diameter limits are those set for class 6H tolerances
- Unit is 1 for all part numbers

3 Piece Tap Set

Part No.	Nom. Size & Pitch (mm)	No. Flutes	Tap Drill mm	Tap Drill In.
20421	M3 x 0.5	3	2.5	No. 39
20422	M4 x 0.7	4	3.4	No. 29
20423	M5 x 0.8	4	4.2	No. 18
20424	M6 x 1.0	4	5.0	No. 8
20425	M7 x 1.0	4	6.0	B
20426	M8 x 1.0	4	7.0	J
20427	M8 x 1.25	4	6.8	I
20428	M10 x 1.25	4	8.75	S
20429	M10 x 1.5	4	8.5	R
20430	M12 x 1.25	4	11.0	27/64
20431	M12 x 1.75	4	10.3	13/32
20432	M14 x 1.50	4	12.5	1/2
20433	M14 x 2.0	4	12.0	31/64
20434	M16 x 1.5	4	14.5	37/64
20435	M16 x 2.0	4	14	9/16
20436	M18 x 1.5	4	16.5	21/32
20437	M18 x 2.5	4	15.5	5/8
20438	M20 x 1.5	4	18.5	47/64
20439	M20 x 2.5	4	17.5	45/64

Individual Taper Taps

Part No.	Nom. Size & Pitch (mm)	No. Flutes	Tap Drill mm	Tap Drill In.
20421-T	M3 x 0.5	3	2.5	No. 39
20422-T	M4 x 0.7	4	3.4	No. 29
20423-T	M5 x 0.8	4	4.2	No. 18
20424-T	M6 x 1.0	4	5.0	No. 8
20425-T	M7 x 1.0	4	6.0	B
20426-T	M8 x 1.0	4	7.0	J
20427-T	M8 x 1.25	4	6.8	I
20428-T	M10 x 1.25	4	8.75	S
20429-T	M10 x 1.5	4	8.5	R
20430-T	M12 x 1.25	4	11.0	27/64
20431-T	M12 x 1.75	4	10.3	13/32
20432-T	M14 x 1.50	4	12.5	1/2
20433-T	M14 x 2.0	4	12.0	31/64
20434-T	M16 x 1.5	4	14.5	37/64
20435-T	M16 x 2.0	4	14	9/16
20436-T	M18 x 1.5	4	16.5	21/32
20437-T	M18 x 2.5	4	15.5	5/8
20438-T	M20 x 1.5	4	18.5	47/64
20439-T	M20 x 2.5	4	17.5	45/64
KP8761	M24 X 3.0	4	21.0	53/64

Individual Plug Taps

Part No.	Nom. Size & Pitch (mm)	No. Flutes	Tap Drill mm	Tap Drill In.
20421-P	M3 x 0.5	3	2.5	No. 39
20422-P	M4 x 0.7	4	3.4	No. 29
20423-P	M5 x 0.8	4	4.2	No. 18
20424-P	M6 x 1.0	4	5.0	No. 8
KP74121	M6.3 X 1.0	4	5.3	4
20425-P	M7 x 1.0	4	6.0	B
20426-P	M8 x 1.0	4	7.0	J
20427-P	M8 x 1.25	4	6.8	I
20428-P	M10 x 1.25	4	8.75	S
20429-P	M10 x 1.5	4	8.5	R
KP74413	M11 X 1.0	4	10.0	X
20430-P	M12 x 1.25	4	11.0	27/64
20431-P	M12 x 1.75	4	10.3	13/32
20432-P	M14 x 1.50	4	12.5	1/2
20433-P	M14 x 2.0	4	12.0	31/64
20434-P	M16 x 1.5	4	14.5	37/64
20435-P	M16 x 2.0	4	14	9/16
20436-P	M18 x 1.5	4	16.5	21/32
20437-P	M18 x 2.5	4	15.5	5/8
20438-P	M20 x 1.5	4	18.5	47/64
20439-P	M20 x 2.5	4	17.5	45/64
KP74130	M24 X 3.0	4	21.0	53/64

Individual Bottoming Taps

Part No.	Nom. Size & Pitch (mm)	No. Flutes	Tap Drill mm	Tap Drill In.
20421-B	M3 x 0.5	3	2.5	No. 39
20422-B	M4 x 0.7	4	3.4	No. 29
20423-B	M5 x 0.8	4	4.2	No. 18
20424-B	M6 x 1.0	4	5.0	No. 8
20425-B	M7 x 1.0	4	6.0	B
20426-B	M8 x 1.0	4	7.0	J
20427-B	M8 x 1.25	4	6.8	I
20428-B	M10 x 1.25	4	8.75	S
20429-B	M10 x 1.5	4	8.5	R
20430-B	M12 x 1.25	4	11.0	27/64
20431-B	M12 x 1.75	4	10.3	13/32
20432-B	M14 x 1.50	4	12.5	1/2
20433-B	M14 x 2.0	4	12.0	
20434-B	M16 x 1.5	4	14.5	37/64
20435-B	M16 x 2.0	4	14	9/16
20436-B	M18 x 1.5	4	16.5	21/32
20437-B	M18 x 2.5	4	15.5	5/8
20438-B	M20 x 1.5	4	18.5	47/64
20439-B	M20 x 2.5	4	17.5	45/64
KP8762	M20 x 2.5	4	21.0	53/64

Metric Spiral Point (Gun) Taps, Plug Style



- High-speed steel
- Ground thread
- Bright finish
- Dimensions conform to USCTI specification
- Unit is 1 for all part numbers

Metric Spiral Point

Part No.	Nom. Size & Pitch (mm)	No. Flutes	Tap Drill Size mm	Tap Drill Size In.
27360	M3 x .5	2	2.5	No. 39
27361	M4 x .7	2	3.4	No. 29
27362	M5 x .8	2	4.2	No. 18
27363	M6 x 1.0	2	5.0	No. 8
27364	M7 x 1.0	2	6.0	B
27365	M8 x 1.25	2	10.3	I
27366	M10 x 1.5	3	8.5	R
27367	M12 x 1.75	3	10.3	10.3
27368	M14 x 2.0	3	12.0	31/64
27369	M16 x 2.0	3	14.0	9/16
27370	M18 x 2.5	3	15.5	5/8
27371	M20 x 2.5	3	17.5	45/64

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always wear safety glasses when using cutting tools.

STI Hand Taps



- High-speed steel
- Ground thread
- Plug-style chamfer
- Dimensions conform to standards set by the Metal Cutting Tool Institute
- For use with Heli-Coil-type threaded inserts
- Unit is 1 for all part numbers

Fine Thread

STI Taps Part No.	Size (In.)	Thread Lgth. (In.)	No. Flutes	Tap Drill Size (In.)
22589	10 - 32	1	3	13/64
22591	1/4 - 28	1 1/8	3	17/64
22593	5/16 - 24	1 1/4	4	21/64
22595	3/8 - 24	1 21/32	4	25/64
22597	7/16 - 20	1 21/32	4	29/64
22599	1/2 - 20	1 21/32	4	33/64
¤22599-1	9/16 - 18	1 13/16	4	37/64
¤22599-2	5/8 - 18	1 13/16	4	41/64
¤22599-3	3/4 - 16	2	4	49/64
¤22599-5	7/8 - 14	2 1/2	4	57/64
¤22599-7	1 - 14	2 9/16	4	1 1/64
¤22599-9	1 - 12	2 9/16	4	1 1/64
¤22599-11	1 1/8 - 12	2 9/16	4	1 5/32
¤22599-13	1 1/4 - 12	3	4	1 9/32
¤22599-15	1 3/8 - 12	3	4	1 13/32
¤22599-17	1 1/2 - 12	3 3/16	4	1 17/32

Coarse Thread

STI Taps Part No.	Size (In.)	Thread Lgth. (In.)	No. Flutes	Tap Drill Size (In.)
¤22590-1	8 - 32	15/16	3	No. 16
22590-2	10 - 24	1	3	No. 5
¤22590-3	12 - 24	1	3	15/64
22590	1/4 - 20	1 1/8	3	H
22592	5/16 - 18	1 1/4	4	Q
22594	3/8 - 16	1 21/32	4	X
22596	7/16 - 14	1 21/32	4	29/64
22598	1/2 - 13	1 13/16	4	17/32
22598-1	9/16 - 12	1 13/16	4	19/32
22598-2	5/8 - 11	2	4	21/32
22598-3	3/4 - 10	2 1/32	4	25/32
¤22598-4	7/8 - 9	2 1/2	4	29/32
¤22598-6	1 - 8	2 9/16	4	1 1/32
¤22598-8	1 1/8 - 7	3	4	1 5/32
¤22598-10	1 1/4 - 7	3	4	1 9/32
¤22598-12	1 3/8 - 6	3 3/16	4	1 13/32
¤22598-14	1 1/2 - 6	3 3/16	4	1 17/32

Metric Thread

STI Taps Part No.	Size (In.)	Thread Lgth. (In.)	No. Flutes	Tap Drill Size (In.)
¤22585-3	M3 x 0.50	4.5	3	No. 16
¤22585-4	M4 x 0.70	6.0	3	No. 5
¤22585-5	M5 x 0.80	7.5	3	15/64
22442-6	M6 x 1.00	9.0	3	H
¤22585-7	M7 x 1.00	10.5	3	Q
22442-8	M8 x 1.25	12.0	4	X
¤22585-9	M9 x 1.25	13.5	4	29/64
22442-10	M10 x 1.50	15.0	4	17/32
¤22585-11	M11 x 1.50	16.5	4	19/32
22442-12	M12 x 1.75	18.0	4	21/32
¤22585-14	M14 x 2.00	21.0	4	25/32
¤22585-16	M16 x 2.00	24.0	4	29/32
¤22585-18	M18 x 2.50	27.0	4	1 1/32
¤22585-20	M20 x 2.50	30.0	4	1 5/32

CAUTION: Improper speeds and/or feeds may cause cutting tools to shatter. Always use safety glasses when using cutting tools.

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Part No.	Effective Range Min. (mm)	Max. (mm)	Band Width (mm)	Unit
24060	8	12	7.5	10
24061	10	16	7.5	10
24062	12	20	9	10
24063	16	25	9	10
24064	20	32	9	10
24065	23	35	9	10
24066	25	40	9	10
24067	30	45	9	10
24068	32	50	9	10
24069	40	60	9	10
24070	50	70	9	10
24071	60	80	9	10
24072	70	90	9	10
24073	80	100	9	10

Protective Liner Worm Gear Clamps

Designed for Silicone Hose Applications

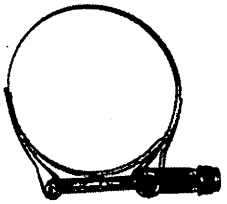


- Stainless steel band, saddle and housing
- Carbon steel slotted hex head screw
- Heavy-duty, four-piece Quadra-lock construction enables far more tightening torque to be delivered to the perforations while maximizing vibration resistance
- Liners protect soft surface hose (silicone and others) from damage caused by extrusion or shearing through the band slots

Part No.	Mfg. No.	Effective Range Min.	Max.	Unit
24144	6	9/16 (14mm)	13/16 (21mm)	10
24145	8	11/16 (17mm)	15/16 (24mm)	10
24146	10	13/16 (21mm)	1 1/16 (27mm)	10
24146-1	12	15/16 (24mm)	1 1/4 (32mm)	10
24147	16	13/16 (21mm)	1 1/2 (38mm)	10
24147-1	20	13/16 (21mm)	1 3/4 (44mm)	10
24148	24	1 1/16 (30mm)	2 (51mm)	10
24148-1	28	1 5/16 (33mm)	2 1/4 (57mm)	10
24149	32	1 9/16 (40mm)	2 1/2 (64mm)	10
24149-1	36	1 13/16 (46mm)	2 3/4 (70mm)	10
24150	40	2 1/16 (52mm)	3 (76mm)	10
24150-1	44	2 5/16 (59mm)	3 1/4 (83mm)	10
24151	48	2 9/16 (65mm)	3 1/2 (89mm)	10
24151-1	52	2 13/16 (71mm)	3 3/4 (95mm)	10
24157	56	3 1/16 (78mm)	4 (102mm)	10
24157-1	60	3 5/16 (84mm)	4 1/4 (108mm)	10
24158	64	3 9/16 (91mm)	4 1/2 (114mm)	10
24158-1	72	4 1/16 (102mm)	5 (125mm)	10
24159	80	4 5/8 (118mm)	5 1/2 (140mm)	10
24159-1	88	5 1/8 (128mm)	6 (150mm)	10
24160	96	5 9/16 (141mm)	6 1/2 (165mm)	10
24160-1	104	6 3/16 (156mm)	7 (175mm)	10

NOTE: Meets Peterbilt's silicone hose installation specifications

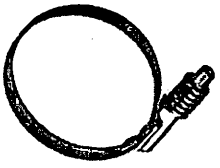
Heavy-Duty T-Bolt Clamps



- 1/4"-28 UNF-2A x 2 3/4" length steel plated T-bolt
- Band size: 3/4" wide x .025 thick
- 301 stainless steel floating bridge liner, trunnion and band

Part No.	Diameter Min. (In.)	Nom. (In.)	Max. (In.)	Unit
KP78838	1.78	2	2.09	5
KP78839	2.03	2 1/4	2.34	5
KP78840	2.28	2 1/2	2.59	5
9913	2.50	2.75	2.81	10
9914	2.75	3.00	3.06	10
9915	3.00	3.25	3.31	10
9916	3.25	3.37	3.56	10
9917	3.44	3.62	3.75	10
9918	3.75	4.00	4.06	10
KP82458	4.25	4.03	4.34	1
9919	4.25	4.50	4.56	10
KP79489	4.50	4.28	4.59	1
9920	4.75	5.00	5.06	10
KP78848	5.28	5 1/2	5.59	1
KP78849	5.78	6	6.09	1
KP78850	6.78	7	7.05	1
KP78851	7.78	8	8.09	1
KP79489	4.50	4.28	4.59	1

Torque Hose Clamps



- Control automatic clamp adjustment or applications requiring:
  — higher torque
  — large diameters
  — extremes of heat and cold or system expansion or contraction

Part No.	Effective Diameter Min. (In.)	Max. (In.)	Unit
24166	1.00	1.75	10
24166-1	1.25	2.13	10
24167	1.75	2.63	10
24168	2.25	3.13	10
24169	2.75	3.63	10
24170	3.25	4.13	10
24171	3.75	4.63	10

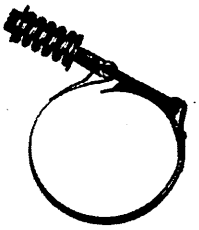
Hi-Torque Clamps



- All purpose hose clamps are made to fit every application—automotive, marine, industry, plumbing and heavy equipment
- Guaranteed to withstand 150 in./lbs. screw torque
- Manufactured with the finest stainless steel band and housing for maximum protection against rest and corrosion

Part No.	Min. (In.)	Max. (In.)	Unit
KP61025	1 1/4	2 5/8	25
KP61026	2 1/8	4 1/8	25
KP61028	6 1/8	9	10

Heavy-Duty Large Spring T-Bolt Clamps



- 1/4"-28 UNF-2A x 3 1/2" length steel-plated T-bolt
- 7/16"-diameter plated steel spring
- Band size: 3/4" wide x .025" thick
- 301 stainless steel floating bridge liner, trunnion and band

Part No.	Diameter Min. (In.)	Nom. (In.)	Max. (In.)	Unit
9921	3.13	3.25	3.44	5
9924	4.13	4.25	4.44	5
9925	6.38	6.50	6.69	5

Two-Ear Hose Clamps



- Formed from steel tubing
- Zinc plated
- Unit 10

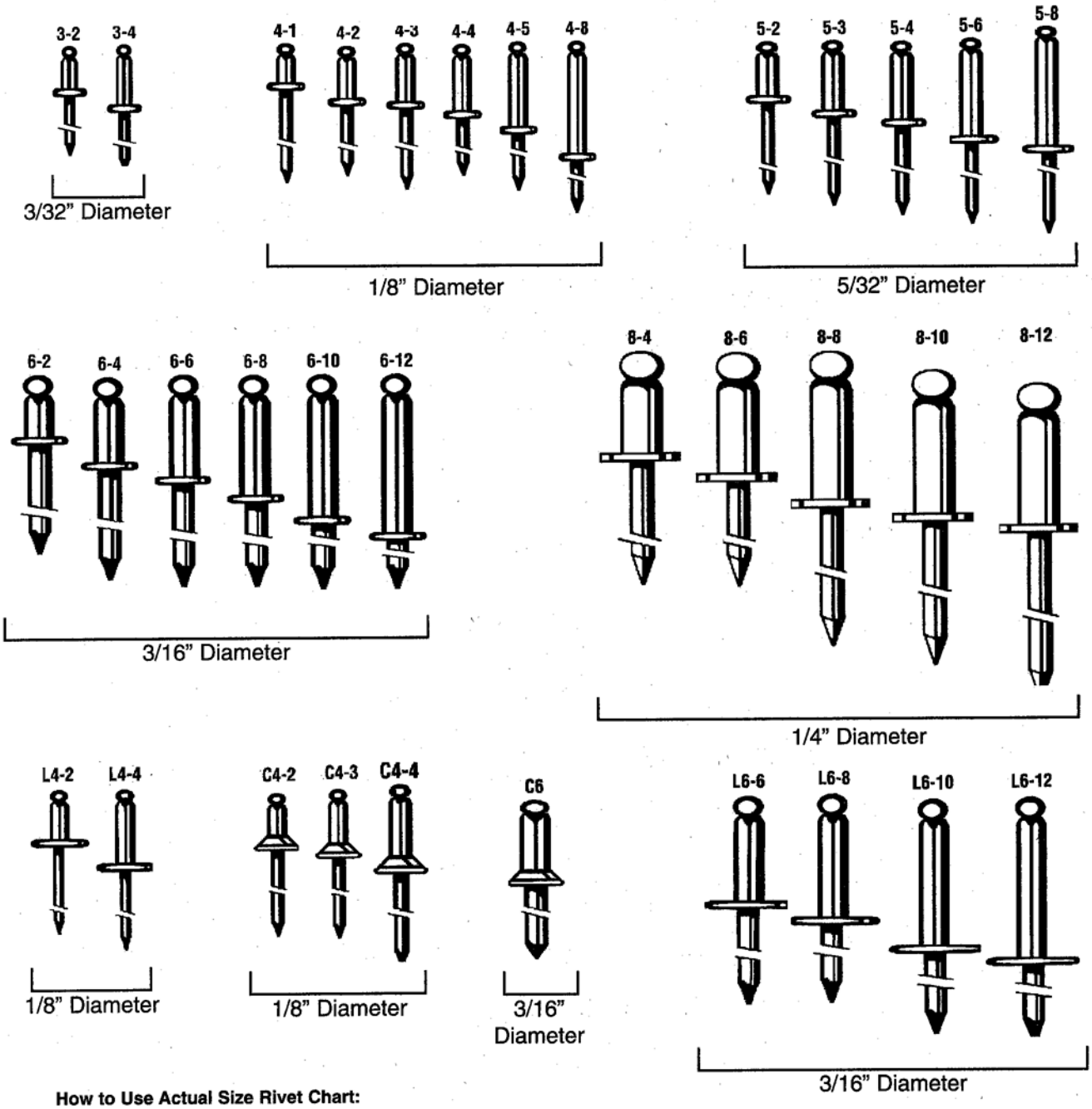
Part No.	Nom. Size (In.)	Closed-Open (In.)	mm	Width Inch	mm
24049-1/4	1/4	.197-.276	5-7	.236	6.0
24049-5/16	5/16	.276-.354	7-9	.276	7.0
24049-3/8	3/8	.315-.433	8-11	.276	7.0
24049-7/16	7/16	.354-.433	9-11	.276	7.0
24049-1/2	1/2	.433-.512	11-13	.276	7.0
24049-9/16	9/16	.512-.591	13-15	.295	7.5
24049-1932	19/32	.591-.669	15-17	.315	8.0
24049-5/8	5/8	.591-.708	15-18	.315	8.0
24049-3/4	3/4	.669-.787	17-20	.335	8.5
24049-1316	13/16	.748-.866	19-22	.354	9.0
24049-7/8	7/8	.787-.905	20-23	.354	9.0
24049-1	1	.905-1.063	23-27	.394	10.0
24049-1516	1 5/16	1.220-1.339	31-34	.394	10.0

NOTE: Select nominal clamp size nearest to, but always larger than, O.D. of material to be clamped after insert has been fitted.

Open End Blind Rivets

Button Head Blind Rivet Size Chart

Actual Size



How to Use Actual Size Rivet Chart:

Place rivet on chart, lining up rivet head with chart, Mandrel (nail portion) length does not determine rivet size. If rivet length is between 2 sizes (i.e. 4-2 and 4-3) choose the larger size.

How to find part number:

1. Locate desired size – head designation on chart
2. Locate desired material combination column
3. Correct part number and rivet code number are across from size – head under material combination

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