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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

709EC011

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ADDRESS CORRESPONDENCE TO ATTENTION OF:
MICHAEL AUSTIN
304-558-2402

*709035314 304-485-4410
MATHENY MOTOR TRUCK COMPANY
PO BOX 1304

PARKERSBURG WV 26102-1304

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
BRUSHY FORK ROAD
BUCKHANNON, WV

CKHANNUN, WV 26201 304-472-1750

DATE PRINTED TERMS OF SALE SHIP VIA FOB. FREIGHT TERMS 01/14/2009 NET 15 DAYS BUCKHANNON, WV PREPAID BID OPENING DATE: 02/25/2009 BID OPENING TIME 01:30PM CAT NO. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT Method 1919 you of matter 0001 EA 065-30 1 :\$106,050.00 <u>\$106,050.00</u> PROVIDE 33,000 GVW CAB AND CHASSIS WITH WV TRACTOR BODY OPEN END CONTRACT TO PROVIDE 33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM FOR THE WEST VIRGINIA DIVISION OF HIGHWAYS PER THE ATTACHED SPECIFICATIONS. A MANDATORY PRE-BID CONFERENCE WILL BE HELD ON 02/05/09 10:00 AM AT THE EQUIPMENT DIVISION, BUCKHANNON, WV 26201. FAILURE TO ATTEND PRE-BID WILL RESULT IN BID DISQUALIFICATION. QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00 PM EST.) ON FRIDAY, 01/30/2009. SEND YOUR QUESTIONS TO: PURCHASING DIVISION ATTENTION MICHAEL AUSTIN 2019 WASHINGTON ST. EAST CHARLESTON, WV 25305 QUESTIONS MAY BE SENT VIA FAX, E-MAIL, OR REGULAR MAIL. E-MAIL: MICHAEL.D.AUSTINOWV.GOV FAX: 304-558-4115 IT IS THE VENDORS RESPONIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402. 2009 MAR 25 AM 9: 06 EXHIBIT 2 WV PURCHASING DIVISION SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE 3<u>04-485-4418 ext</u> 03/23/09 CEO 55-032-0770 ADDRESS CHANGES TO BE NOTED ABOVE

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division.
- 4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
- Payment may only be made after the delivery and acceptance of goods or services.
- 7. Interest may be paid for late payment in accordance with the West Virginia Code.
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
- 12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 13. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
- 14. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 15. WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT: If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division.
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Complete all sections of the quotation form.
- 4. Unit prices shall prevail in case of discrepancy.
- 5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 6. BID SUBMISSION: All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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DIVISION OF HIGHWAYS
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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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DIVISION OF HIGHWAYS EQUIPMENT DIVISION ROUTE 33 BRUSHY FORK ROAD BUCKHANNON, WV

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PO BOX 1304

State of West Virginia
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2019 Washington Street East
Post Office Box 50130 Charleston, WV 25305-0130

MATHENY MOTOR TRUCK COMPANY

PARKERSBURG WV 26102-1304

304-485-4410

Request for

RFQ NUMBER 709EC011

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MICHAEL AUSTIN

ADDRESS CORRESPONDENCE TO ATTENTION OF

DIVISION OF HIGHWAYS EQUIPMENT DIVISION ROUTE 33 **BRUSHY FORK ROAD** BUCKHANNON, WV

26201

304-558-2402

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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code**. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code** and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the **West Virginia Code** may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: _	MATHENY	MOTOR	TRUCK	COMPANY					
Authorized Signat	ure: <u>M</u> /	Malto	the		Date:	March	23,	2009	-

Purchasing Affidavit (Revised 01/01/09)



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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston WV 25305 0130 Charleston, WV 25305-0130

RFQ NUMBER 709EC011

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ADDRESS CORRESPONDENCE TO ATTENTION OF: MICHAEL AUSTIN

304-485-4410 *709035314 MATHENY MOTOR TRUCK COMPANY PO BOX 1304

PARKERSBURG WV .26102-1304

DIVISION OF HIGHWAYS SH-P-TO EQUIPMENT DIVISION ROUTE 33 BRUSHY FORK ROAD

BUCKHANNON, WV

304-558-2402

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*709035314 304-485-4410 MATHENY MOTOR TRUCK COMPANY PO BOX 1304 PARKERSBURG WV 26102-1304

DIVISION OF HIGHWAYS SH-P EQUIPMENT DIVISION ROUTE 33 T O BRUSHY FORK ROAD

BUCKHANNON, WV

26201

DATE PRINTED		TERMS OF SALE				SHI	P VIA		F.O.B.	FREIGHTTERMS
03/06/	2009	NET 1	NET 15 DAYS			GROUND B			BUCKHANNON, WV	PREPAID
BID OPENING DATÉ:		3/25/	2009		Taran Sansas			BID (OPENING TIME 01	.: 30PM
LINE	QUAN	ujusid heridikis yaki [UOP	CAT. NO.		ITEM:N	NUMBER		UNIT PRICE	AMOUNT
			•	ADDEN	DUM	NO.	2			
	BID OPI	ENING	DATE .	AND T	IME	CHAN	IGED			
	FROM:	03/11	/09 A	Г 1:3	ο Р.	М.				
ı	ro:	03/25	/09 A	r 1:3	0 P.	Μ.				
:	NO OTHE	ER CHAI	NGES							
0001 '		1	EΑ		065-	30				
-	33,000	GVW C	AB ANI	о сна	ssis	;				
	****	THIS	IS TI	HE EN	O OF	RFQ	. 70	09EC)11 ***** TOTAL:	
				·						
SIGNATURE 🔼 .				SEE RE	VERSE.	SIDE FOR	R TERMS TELEPI		IDITIONS DATE	
SIGNATURE MIL	1 mass	TAIN					3(04-48	35-4418 ext 601	03/25/09
TITLE CEO		FE	55-	-032-0	0770)			ADDRESS CHANGES	TO BE NOTED ABOVE



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFONUMBER 709EC011

PAGE	
1	

ADDRESS CORRESPONDENCE TO ATTENTION OF:

MICHAEL AUSTIN 304-558-2402

MATHI V PO BO N PARKI

*709035314 304-485-4410 MATHENY MOTOR TRUCK COMPANY PO BOX 1304

PARKERSBURG WV 26102-1304

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
BRUSHY FORK ROAD
BUCKHANNON, WV
26201 304-4

DATE PRINTED TERMS OF SALE		SHIP VIA	FOB	FREIGHT TERMS
	NET 15 DAYS	GROUND BU	CKHANNON, WV	PREPAID
BID OPENING DATE: 0	3/25/2009	BID OP	ENING TIME 01	:30PM
LINE QUÂNT	TITY UOP CAT,	ITEM NUMBER	UNIT PRICE	AMOUNT
	ADDEN	DUM NO. 3		
CHANGES	TO THE SPECIFI	CATIONS ATTACHED.		
BID OPE	NING DATE AND T	IME REMAINS 03/25/	09 a 1:30 P.M.	
NO OTHE	R CHANGES.			
0001	1	065-30		
33,000	GVW CAB AND CHA	SSIS		
****	THIS IS THE EN	D OF RFQ 709EC01	1 ***** TOTAL:	

	SEE RE	L VERSE SIDE FOR TERMS AND CONDIT	TIONS	
SIGNATURE W. J. Wall		TELEPHONE 304-485	-4418 ext 601	03/23/09
TITLE CEO	FEIN 55-032-0	0770	ADDRESS CHANGES	TO BE NOTED ABOVE

PREBID ADDENDUM #3 OPEN END CONTRACT 709EC011

CHANGES TO	D BIDDER'S EVALUATION REPORT:
FROM: TITLE:	33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM
TO: TITLE:	MINIMUM 33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM
NO CHANGE 1.0	REQUIRED: PÜRPOSE
NO CHANGE X4.2.2	REQUIRED: Delivery date of balance of completed units: 222 calendar days after receipt of SEE "EXCEPTIONS TO SPECIFICATIONS" purchase agreement
NO CHANGE X4.2.1	REQUIRED: Delivery date of completed representative unit: 132 calendar days after receipt SEE "EXCEPTIONS TO SPECIFICATIONS of purchase agreement
NO CHANGE X6.1 Manus	REQUIRED: facturer, model, series, and date of manufacture of proposed unit:
Cab a	nd Chassis: HINO, MODEL 338, 300 SERIES, 2010 MODEL YEAR
Dump	Body: HENDERSON, MODEL MUNI II, WV09, 2009 MODEL YEAR
Piston	Pump Hydraulics: COMPONENT TECHNOLOGY SG03040008 WV
	criptive literature, fully describing proposed unit attached to your bid? XYESNO
If not,	why?

FRON X8.1	M:	GVW plate rating: lbs.					
TO: X8.1		GVW plate rating: 33,000 lbs.			,		
		VRITTEN: base: 152.0 inches, set forward design				applications	S
LEAV X8.4.3		VRITTEN: Is the truck chassis frame rails free of obstruations the left outside frame rail 23 inches to cab for installation of the spinner chute	uctions 38 incl	insic	de the fr	ame rails a	
FROM X8.5	Cab: Is premiu	cab manufacturer's standard steel and/or fiberg m or manufacturers highest level interior trim v 80 dba in compliance with Federal regulations	with insi	de n	oise leve	el rating not	to
	Does it	have an ambient temperature display for ou		_		NO	
	Is hood	a tilt hood and fenders either steel and/or fi	iberglas	ss	YE	SNC)
	Is rear	air bag suspension provided			YES_	NO	
	Inner f	ender panels that are adequate to keep mate				ompartmer NO	ıŧ
TO: X8.5	premiu	cab manufacturer's standard steel and/or fiberg n or manufacturers highest level interior trim w 80 dba in compliance with Federal regulations	vith insi	đe no	oise leve		to
	Does it	have an ambient temperature display for ou		_		NO	
	Is hood	a tilt hood and fenders either steel and/or fi	iberglas	ss	X YES	SNO)
	Inner f	ender panels that are adequate to keep mate			ngine co YES	ompartmen NO	it

LEAVE A	S WRITTEN:
X8.5.2	Seats: Driver – Fully adjustable high back with head rest, air rides, bucket style; seat includes air lumbar, hip bolsters, side bolsters, and back bolsters, with full cloth on
	entire seat
FROM:	
X8.5.7.8	Manufacturers stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount Bug screen provided behind grille YES NO YES NO
TO: X8.5.7.8	Manufacturer shall provide for stationary grille, grille with cutout area, or a hood which tilts for easy access to the engine to allow tilt hood to clear snow plow mount Bug screen provided behind grille XYES NO NO
DELETE: X8.5.7.11	Does unit include kit for front mounted CB radio and all power and ground wiring to include co-ax cable, antenna, speaker, etc. DELETE All cable and wiring routed using grommets and wire looms DELETE
	Radio make and model: DELETE
LEAVE A X8.6	S WRITTEN: Engine:
2.0.0	Make: HINO Model: JOSE-TW
	HP Torque @585 lb. ft.
	S WRITTEN:
X8.6.2	Fuel heater/water separator mounted inside engine compartmentYES _X NO SEE "EXCEPTIONS TO SPECIFICATIONS"
	Manufacturer: DAVCO

NO CHA	NGE REQUIRED:				
X8.7.1	Is cooling system capable of maintaining engine tem manufacturers recommended range during continuo	-			
	operation	X	YES	_NO	
				_	
	Does unit provide an automatic "on-off" fan drive w	ith ny	lon fan bla	des	
	•		_ YES	NO	
	Manufacturary HINO				
	Manufacturer: HINO		<u>.</u>		
FROM:					
X8.7.3	Does the radiator provide adequate clearance to faci	ilitate	the installa	tion of a	
	crankshaft driven PTO drive shaft		_YES	_NO	
	The distance between the extreme tip of the radiator				e
	of the crankshaft is inches to insure ade	quate	clearance t	or PTO	
	drive shaft				
	Radiator and heater hoses are silicone type or approved	eaniv	alent with co	onstant	
	torque clamps or equivalent utilized on radiator hoses to				
			YES		
TO:					
X8.7.3	Does the radiator provide adequate clearance to faci			tion of a	
	crankshaft or transmission X driven PTO	drive	e shaft	NIO	
		<u>X</u>	_YES	_NO	
	The distance between the extreme tip of the radiator	· fan h	Jada and th	a contorlin	0
	of the crankshaft is _* inches to insure adequate				C
	shaft *NOT APPLICABLE SINCE PROVIDING				ጋሞር
	Shart was introduced of the live of the	TIVE	ADITEDUTOR	DIVEATIN	FIO
	Radiator and heater hoses are silicone type or approved	equiv	alent with co	onstant	p=4
	torque clamps or equivalent utilized on radiator hoses to	o mini	mize cold w	ater leaks	
			YES		
	NGE REQUIRED:	100 FT	700 375	27.0	
X8.8.1	Capacity: 52 US gallons. Does tank comply with	FIVIV	'88 <u>X</u> YE	SNO	
	Filler can is shein tethered X VEC NO				
	Filler cap is chain tethered X YES NO				

NO CHAI	NGE REQUIRED:			
X8.9.2.1	Cold Crank AMPS 1800 AMPS with sealed to	ermin	ıals	
	AS WRITTEN:			
X8.9.6.4	Will manufacturer provide body builder circuits – the	hree ((3) switche	s located in
	the dash instrument panel with one (1) weather prot connection box or module located at the rear under	cab_	X YES	NO
	Is the power module 20 amps per channel, 8- amps n	naxin	num outpu	ıt
	* · · · · · · · · · · · · · · · · · · ·	_X	YES	NO
	Do the dash switches control the power module with	LED) hacklight	ino
	SEE "EXCEPTIONS TO SPECIFICATIONS"			
FROM:				
X9.8.7	For future potential pre-wet application, will the cor	nbina	ation body	be capable of
	accepting frame mounted approximately 85 gallon p	oly li	quid tanks	\$
	Will the body be designed to allow maximum protec		YES o the tank	
	Will the body be designed to allow maximum protect	tion t	YES	NO
	•			
TO:	For future potential pre-wet application, will the cor	nhine	ation hadv	be canable of
X9.8.7	accepting fender mounted approximately 75 gallon p			
		<u> </u>	YES	NO
	Will the body be designed to allow maximum protec	tion t	o the tent	c
	Will the body be designed to anow maximum protect	X	YES	NO
		,		,
•	AS WRITTEN:	Х	VEC	NO
X9.12	Is the body a unibody design - no crossmember		res	NO

FROM: X9.12.1	The body has one (1) piece sides and floor which incorporates a sloping floor to side radius to adequately feed material to the conveyor chainYESNO
TO: X9.12.1	Does the body have one (1) piece sides and floor which incorporates a sloping floor to side radius YES NO
	Degree of slope to adequately feed material to the conveyor chain 35
	AS WRITTEN: The boxed top rail i8s sloped inward to shed debris X YES NO
FROM: X9.14	Full length 304 stainless steel integral rear fenders which incorporate prewet liquid reservoirs (85 gallon)YESNO
TO: X9.14	Full length 304 stainless steel integral rear fenders which incorporate prewet liquid reservoirs (75 gallon) YES NO
	AS WRITTEN: Conveyor width – 25 inches or more X YES NO
	AS WRITTEN: Conveyor is driven with 25:1 planetary gearbox drives or equal on both the front and rear shafts with 5.0 CIR hydraulic motors X YES NO
	One (1) motor has an integral conveyor speed sensor X YES NO
DELETE	
X9.16.3	For rear spreading a (DELETE) gauge 304 stainless steel (DELETE) x (DELETE) inch rear feedgate in the body tailgate

FROM: X9.16.5	The front spinner bracket and chute is mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets are installed by the successful vendorYESNO
TO: X9.16.5	Is the front spinner bracket and chute mounted to the truck chassis frame and installed by successful vendor YES NO
FROM: X9.16.6	The spinner assembly is universal and may be used at front or rear_YES_NO
TO: X9.16.6	The spinner is universal and mounted at the front for delivery and may be used at front or rear X YES NO
	AS WRITTEN: Is the spinner 409 or 304 stainless steel X YES NO
	AS WRITTEN: Trunnion Mount _ X _ YES NO
FROM: X9.17.4	Hoist cylinder has three (3) stages with inches of stroke with a four (4) inch diameter first stageYESNO Manufacturer and part number:
TO: X9.17.4	Single acting hoist cylinder has three (3) stages with 90 inches of stroke with a four (4) inch diameter first stage YESNO
	Manufacturer and part number: CS90-4-3 MAILHOT
LEAVE A X9.17.7	AS WRITTEN: A five (5) degree oscillating cylinder collar protects the cylinder against side Stress NO

	S WRITTEN:
X9.18.7	Does the unit have air operated tailgate with dual brake chamber air tailgate latches (one on each side) X YES NO
	Pivot shafts included stainless steel bushings to eliminate seizing XYESNO
DELETE: X9.18.8	1½ inch 304 stainless steel grip strut walk rail installed on both sides of the bod (DELETE)
FROM: X9.25.9	Load covering system provided with a oz. black vinyl tarp to fit 14 foot 6 inch body YES NO
TO: X9.25.9	Load covering system provided with a 18 oz. black vinyl tarp to fit 10 foot body X YES NO
FROM X10.3.13	Snowplow power angle control section is 4 way three (3) position spring centered motor spool for operation of worm gear driven type reversing systemYESNC
TO: X10.3.13	Snowplow power angle control section is 4 way three (3) position spring centered cylinder spool for operation of a power angle plowXYESNO

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT NO. 371-2-G

33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM

NOTE TO BIDDER: Procurement Specification No. 371-2-G, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.:	
Bidder's Name: MATHENY MOTOR TRUCK COMPANY	
Address: PO BOX 1304, PARKERSBURG WV 26102-1304	
Telephone Number: 304-485-4418 ext.601	
Years Bidder has been registered to do business with the State of West Virginia: 87	_YRS
Years Company has been an authorized dealer for proposed unit: 1 Yr. 6 MO.	_YRS.
X3.2 Have you complied with all mandatory specifications? X YES NO	
X4.2 DELIVERY: X4.2.1 Delivery date of completed representative unit: SEE ADDENDUM 3 & "EXCEPTIONS TO SPECIFICATIONS" Receipt of Purchase Agreement	
X4.2.2 Delivery date of balance of completed units: 132 Calendar Days After Receipt of SEE ADDENDUM 3 & "EXCEPTIONS TO SPECIFICATIONS" Purchase Agreement Purchase Agreement Purchase Agreement Calendar Days After Receipt of	

The "Bidder's Evaluation Report" is available for download on Purchasing's Web site at www.state.wv.us/admin/purchase

X5.0	AWARD CRITERIA;		
X5.1	Prices for units:	1-25	\$106,050.00 per unit
		26-50	\$106,.050.00 per unit
		51 and over	\$106, 050.00 per unit
X6.0 X6.1	SPECIFICATIONS - GENERAL Manufacturer, model, series, and date of a	manufacture o	f proposed unit:
	Cab and Chassis: HINO, MODEL 338,	300 SERIE	S, 2010 MODEL YEAR
	Dump Body:Viking Proline CB10/11	PRINCE TO THE PR	
	Piston Pump Hydraulics:Component Te	chnology Mod	el SG03040008 West Virgina
	Is descriptive literature, fully describing pro-	posed unit attac	ched to your bid?X YES NO
	If not, why?		
X6.2	Will the required number of service manu Equipment Division at Buckhannon upon	uals, and comp	lete parts list be delivered to the delivery of total units?
	Will the required Equipment Preventive I Report) be provided upon inspection of the	Maintenance F ie pilot unit?	orm (Section X6.2 of Bidders Evaluation X YES NO

TO BE COMPLETED PRIOR TO DELIVERY OF REPRESENTATIVE TRUCK

X6.2 2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION:				MAK	B:	
M	ODEL:		YEAR:	PURO	CHASE AMOUNT	*
					FUEL TYPE:	
	HORSEPOWER:		CYLINDER:	ENG	INE SERIAL:	
	COOLING SYSTE	M CAPACITY:				
BELTS:				PART NUMB	ERS:	
						REAR:
GVW:		AXLE	CAPACII I:	FRONT.		KLAUC
TIRES:	FRONT MAKE &	SIZE:				
	REAR MAKE & S	IZE:				
DIMENSIO	ONS OF UNIT:	LENGTH:	····	WIDTH:		LENGTH:
VENDOR	CONTACT PERSON				PHONE:	
PARTS:						
BATTERY	/ MAKE:		MODEL:		CCA:	
TOP OR S	IDE POST:		DIMENSIONS	: LENGTH	WIDTH	HEIGHT
SPARK PI	LUGS OR FUEL INJ	ECTORS MAKE: _		PART#		
FUEL PUI	MP OR INJECTION I	PUMP MAKE:		MODEL:		
ALTERNA	ATOR MAKE:			PAKI#;		
STARTER	MAKE:			PARI #:		
TURBOC	HARGER MAKE:	MODE	77 •	TAIL T.	ALITO/MANIL	AT.:
HYDRAU	AAKE: LIC PUMP MAKE:	MODI	,L	MODEL:		AL:
	MAKE			RICANT		URER TYPE
OIL			ENGI	NE		**************************************
	ER	<u></u>	IKAN	ISMISSION		
AIR OUT	ER		POW	ER STEERING _		
FUEL PRI	IMARY		HYDI	RAULIC		
FUEL SEC	CONDARY		DIFF	ERENTIALS		
	T			KE FLUID		
HYDRAU	TIC					
OTHER			OTHI	ER		

MATHEM CHASSIS

₹6.3	TRAINING:
	Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training
	Will you conduct training with each purchase order against this open end contract? X_YESNO
	Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order? YES NO
	If NO, explain time frame
	Will an Operator's Manual be furnished directly to Training Academy prior to the delivery of the pilot?
X6.4	If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training?
X6.4.	Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit? If NO, explain
X6.5	WARRANTY AND SERVICE POLICY
	Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications X YES NO
	Is warranty literature attached? X_YES NO
	Is a minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items included? Describe: WARRANTY PROTECTS AGAINST DEFECTS IN MATERIAL & WORKMANSHIP FOR
	24 MONTHS/UNLIMITED MILEAGE. ADJUSTMENTS, EXPENDABLES SUCH AS
	BULBS & FUSES ARE COVERED FOR 90 DAYS/3,000 MILES. BATTERIES ARE COVERED FOR ONE (1) YEAR. SEE ATTACHMENT

WY TRACTOR BODY

X6.3	TRAINING:				
	Will training seminar be conducted on Preventive Maintenance, Ope		Mecharx_YES		-
	Will you conduct training with each purchase order against this		l contra KYE		_ NO
	Will training be conducted within 2 working days from the delivery purchase order?		ot unit o _x_ YE		
	If NO, explain time frame			······	
	Will an Operator's Manual be furnished directly to Training Addelivery of the pilot?		rior to t x YE!		_NO
X6.4	If you are the successful vendor, will you furnish all training aid in conducting the training?x_ YES NO	ls, i.e., vid	eos, pro	ojector	rs, required
X6.4.1	part of the state		YES	proced	lures, and _NO
X6.5	WARRANTY AND SERVICE POLICY				
	Will the warranty and service you provide comply with all areas as s	tated in Se _xYES			pecifications
	Is warranty literature attached?	_xYE	S	NO	
	Is a minimum two (2) year bumper to bumper basic parts and la and normal wear items included? Describe:	bor warr _x YES			g abuse
	Two years parts and labor bumper to bumper			***************************************	

WY TRACTOR BODY

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.

(If additional lines are needed, make copies of form.) 1. Define the terms of the standard warranty. If not offered, so state. (Attach copy) Standard warranty extended to two years parts and labor bumper to bumper 2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative. Most work under warranty to be performed at West Virginia Tractor Company in Charleston 3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known. Viking parts available at West Virginia Tractor Company in Charleston 4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner. A. Terms: Net 30 Manufacturer's published list price less: ______ % discount Manufacturer's published list price less: ______ % discount В. Terms: Net 60 C. Terms: Net 90 Manufacturer's published list price less: ______ % discount 5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? ___x_YES___NO 6. During the term of warranty, list the guaranteed rates charged for repair to the unit. Α. Shop Rate \$_75.00____per mechanic hour \$_75.00____ per mechanic hour В. Travel Time Charge (Specify if one-way) _____; port to port ___x___ \$__2.00____ per vehicle mile C. Mileage Charge (Specify if one-way _____; port to port ____x___ D. Field Mechanic Rate \$___75.00__ per mechanic hour E. Specify period of time that prices are in effect: _one year____

Surcharge for miscellaneous items: holidays and overtime 150 %

F.

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID. (If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy) BASE VEHICLE & DRIVE TRAIN - 24 MO/UNLIMITED MILES 100% PARTS & LABOR; FRAME - 60 MO 100% PARTS & LABOR
ENGINE - 36 MO/UNLIMITED MILES
CAB - 36 MO/UNLIMITED MILES - 100 % PARTS & LABOR
2. Define warranty service to be performed at DOH facilities and warranty service to be performed at
manufacturer's representative facility. List name and location of manufacturer's representative.
DOH CAN PERFORM CHASSIS, BODY & PUMP WARRANTY EXCEPT INTERNAL ENGINE WORK.
WORK MUST HAVE PRIOR DEALER APPROVAL AND FOLLOW ALL CHASSIS, BODY & PUMP
POLICY & PROCEDURES. 3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if
known. CHASSIS - PARKERSBURG - AVAILABILITY LEVEL TBD
4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that
bidder will sell the parts to owner.
A Terms: Net 30 Manufacturer's published list price less: 20 % discount
A. Tenns: Net 30 Windiadataror & patrioled list price loss: 15 % discount
B. Terms: Net 60 Manufacturer's published list price less:
5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of
Highways? X YES NO
6. During the term of warranty, list the guaranteed rates charged for repair to the unit.
A. Shop Rate \$ 85.00 per mechanic hour
B. Travel Time Charge \$ 105.00 per mechanic hour
(Specify if one-way) ; port to port YES
C. Mileage Charge \$\sqrt{NO}\$ CHARGE per vehicle mile \$\sqrt{NO}\$ CHARGE; port to port \$\sqrt{NO}\$ CHARGE
(Specify if one-way NO CHARGE; port to port NO CHARGE
D. Field Mechanic Rate \$\frac{105.00}{} \text{ per mechanic hour}\$
E. Specify period of time that prices are in effect: ONE (1) YEAR
F. Surcharge for miscellaneous items: 10 % OF LABOR WITH MAXIMUM OF \$50.00
F. Surcharge for miscenaneous nems.

•		J. (**)		1 Here	11 11	
X6.6	EVALUATION CO	OMMITTÉE RÉC	UIREM	ENTS	(

	Is all component specifications, product literature, component models	-			
	Committee bid determination?	X	_ YES	NO	
X6.7	Will all parts, equipment, accessories, material, design and perform specified herein, but which are necessary to provide a complete us and conform in strength, quality of material, and quality of works advertised and provided to the market in general by the unit industrial.	nit, ma ıstr	be furni nship to	shed with the unit those which are	
X6.7.1	Are all parts and accessories adequate and regularly supplied as s				ŧ
	those which may be duplications of specifications herein, and exce	ept		specification are	
X6.7.2	2 Are all standard safety features that are required by Federal and		ite statut _YES		?
X7.0	SPECIFICATIONS OF THE QUOTED UNIT The bidder should complete the following schedule in order for the Diunit to the specifications. Should the bidder except a requirement, the the basis that such feature is not offered by the manufacturer. The Didiscretion as to whether the bidder's substitution meets the requirement	en s visi	uch exce _l on will h	ption may be only only only only only only only only	
X8.0	SPECIFICATIONS – CAB AND CHASSIS				
	Manufacturer: HINO Model:	33	38		
X8.1	GVW plate rating: 33,000 Lbs. SEE ADDENDUM 3				
X8.2	Cab to axle dimension: 84.6 Inches.				
X8.2.1	Cab to end of frame: 134.6 inches				
X8.3	Wheelbase: 152.0 inches, set forward design for our snowplow SEE ADDENDUM 3	ар	plications	s <u> </u>	МО
X8.4	Frame: Will you provide a frame that meets or exceeds all Federa specified that has an integral front frame extension with no frame installation?		touts exc		ie
	Will extension extend forward of the grille area a minimum of 12	inc	hesX	YESNO	
•	Warranty on frame: 5 years and conform to the following:				

	X8.4.1	Frame steel: 120,000 PSI yield strength minimum	YES NO
	X8.4.2	R.B.M.: 3,866,400 Ins./Lb.	
	X8.4.3	Is the truck chassis frame rails free of obstructions insi- outside frame rail 23 inches to 38 inches from the back spinner chute SEE ADDENDUM 3	de the frame rails and along the left of the cab for installation of theNO
	X8.4.4	Have you omitted the factory installed bumper and compli-	ed with our building of a front bumper X YESNO
	man	: Is cab manufacturer's standard steel and/or fiberglass and/or ufacturers highest level interior trim with inside noise level rapliance with Federal regulations	aluminum with premium or ting not to exceed 80 dba in YES NO
J	Does	s it have an ambient temperature display for outside temp	erature X YES NO
	DENDUK Is h	ood a tilt hood and fenders either steel and/or fiberglass	X_YESNO
	MBER (Is re	ear air bag suspension provided - NOT APPLICABLE	
	Inne	er fender panels that are adequate to keep materials from	engine compartmentX_YESNO
er V	X8.5.1	Is unit equipped with manufacturers tilt steering column w	vith cruise control feature X YES NO
		Provide locking hand operated throttle	YESX_NO
	X8.5.2	Seats: Driver – Fully adjustable high back with head rest, air ride lumbar, hip bolsters, side bolsters, and back bolsters, with SEE ADDENDUM 3	e, bucket style; seat includes air full cloth on entire seat YESNO
₹. *		Material is Modura YES X NO OR approve SEE "EXCEPTIONS TO SPECIFICATIONS"	ed equal: SEARS 70
	X8.5.2.1	Passenger seat fully adjustable high back with leave covered or cloth insert in vinyl	head rest, air ride, bucket style, clothX_YESNO
		Clearance between drivers and passenger seats	12 inches
× .	X8.5.3	Floor mats: Rubber floor mats throughout cab area with n	on-absorbent backing under matsX_YESNO
	X8.5.4	Heater and defroster: Fresh air type, heaviest duty	X YES NO

X8.5.5	Windshield wipers and washers: Manufacturers heaviest du	-		vith intermi NO	ttent feature
	Wipers equipped with snow type blades	X	YES	NO	
X8.5.6	Instruments: Are manufacturer's gauges with visual an programmable warning to inform driver when operating				ed included:
X8.5.6.1	Voltmeter or ammeter		X	YES	_NO
X8.5.6.2	Engine RPM tachometer		X	YES	_NO
X8.5.6.3	Speedometer with odometer Are provisions for dual speedometers leads availa				Ю
X8.5.6.4	Air pressure gauge(s)		X	YES	_NO
X8.5.6.5	Air filter to be manufacturers heaviest element ty	pe	. X	YES	_NO
X8.5.6.6	Air filter restriction indicator dash mounted		X	YES	NO
X8.5.6.7	Engine hourmeter (controlled by engine operation	n)	X	YES	_NO
X8.5.6.8	Fuel gauge(s) with low fuel warning indicator	<u>X</u>	_YES_	NO	
X8.5.6.9	Is unit equipped with front air intake Is an air actuated or cable control valve provided intake to engine compartment while in snow plov	l to en	able or pplicat		livert air
X8.5.6.10	Oil pressure gauge	X	_YES_	NO	
X8.5.6.11	Temperature gauge	<u>X</u>	_YES_	NO	
X8.5.6.12	Low coolant indicator		X	_YES	_NO ~
X8.5.7	Accessories:				
X8.5.7.1	Manufacturers dash mounted extended two (2) cup of SEE "EXCEPTIONS TO SPECIFICATIONS	drink l 3 "		× NO	
X8.5.7.2	Air horns with snow shields		YES	x NO	
	If cab mounted, adequate clearance for future install		_	body cab	protector
	Single horn without snow shield	Х	YES	NO	
	Mounted downward on frame rail under hood	X	YES		

X8.5.7.3	Rearview Mirrors: Heated dual, West Coast Type YESX_NO Size: Power adjustable with convex spot mirrorX YES NO (OR)
	to include fore and aft breakaway feature with corrosive resistant finish equal to stainless steel, powder coat or aluminum or molded plastic housing and mounting brackets X_X_YESNO
X8.5.7.4	Grab Handle: Right hand and left hand sides internal or external mounting to rear of door opening X YES NO
	If inside handles, one (1) outside, left, mounted grab handle with non-slip insert for
	bed aggregate inspection furnished X YES NO
X8.5.7.5	Glass: Manufacturers tinted safety glass; front, sides, and rear_X_YESNO
X8.5.7.5.1	Dual power windows X YES NO
X8.5.7.6	Radio: Manufacturers standard AM/FM stereo X YES NO Weather band radio feature X YES NO
X8.5.7.7	Air Conditioning: Manufacturers fresh air type heaviest duty with APADS or equivalent RCD system to include replaceable fresh air filter YES NO
X8.5.7.8	Manufacturers stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount *SEE ADDENDUM 3 * YES * NO Bug screen provided behind grille X YES NO
X8.5.7.9	Front mudflaps manufacturers standard for unit bid X YES NO
X8.5.7.10	Emergency triangle warning kit, with hold down or stowed in the cab X YES NO
	Make/Model: KD LAMP CO./KD610-464S
X8.5.7.11	Does unit include kit for front mounted CB radio and all power and ground wiring to include co-ax cable, antenna, speaker, etc. * YES * NO
*SEE ADDENDUM 3	All cable and wiring routed using grommets and wire looms * YES * NO
	Radio make and model: CUSTOM RADIO, MODEL NO. CSS6500
X8.5.7.12	Two (2) front frame mounted tow hooks or eyes X YES NO

	DUAL OVERHEAD COMPARTMENTS, POWER DOOR LOCKS, COAT HOOK,
	FULL INTERIOR TRIM, CIGARETTE LIGHTER, TILT & TELESCOPIC
X8.6 Eng	ine: STEERING WHEEL
Mak	re: HINO Model: JOSE-TW
_2	60 HP. Torque @ 585 Lb. Ft.
X8.6.1	Has engine manufacturer made provisions for front mounted hydraulic pump to crankshaft p
X8.6.2	Fuel heater/water separator mounted inside engine compartment YES X NO SEE "EXCEPTIONS TO SPECIFICATIONS"
	Manufacturer: DAVCO
X8.6.3	Engine block heater 1000 watt/ 120 v rating includes weather proof spring loaded cap over plug X YES NO
X8.6.4	Single vertical exhaust pipe with horizontal muffler that meets all Federal noise abatement requirementsX_YESNO
	Exhaust frame mounted on the passenger side of unit with heat shield on vertical exhaust YES NO
X8.6.5	Engine equipped with engine brake XYES_NO
	Compression YES _X NO (or) Compression/Exhaust YES _X NO (or) Exhaust YES _X NO
	Manufacturer: HINO
X8.6.6	Is engine oil pan zinc nickel plated YESX_ NO (OR)
	Aluminum YES X NO (OR) Non-Corrosive coated X YESNO
X8.6.7	Engine provides electronic speed control including throttle and cruise control features X YES NO
X8.7 Coo	ling System:
X8.7.1	Is cooling system capable of maintaining engine temperature within the manufacturers recommended range during continuous winter/summer operation_*YES*_NO
DENDUM	Does unit provide an automatic "on-off" fan drive with nylon fan blades*_YES*_NO
	Manufacturer: *

	X8.7.2	rated at a -34°F minimum X YES NO	пί
	X8.7.3	Does the radiator provide adequate clearance to facilitate the installation of a crankshaf driven PTO drive shaft * YES* NO	t
*SE AD 3	E DENDUM	The distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft is inches to insure adequate clearance for PTO drive shaft	
		Radiator and heater hoses are silicone type or approved equivalent with constant torque clamp or equivalent utilized on radiator hoses to minimize cold water leaksX_ YESNO	S
	X8.8 Fuel		
	X8.8.1	Capacity: 52 US gallons. Does tank comply with FMVSS X YES NO	
		Filler Cap is chain tethered X YES NO	
	X8.9 Elect	trical System:	
	X8.9.1	Type: 12 volt negative ground system includes manual reset circuit breakers (main panel) SAE Type III with trip indicators to replace all fuses except for 5 amp fuses. YES X SEE "EXCEPTIONS TO BID"	NC
	X8.9.2	Batteries:	
	X8.9.2.1	Cold Crank AMPS 1800 AMPS with sealed terminals	
	X8.9.2.2	Jump start studs mounted on outside of battery box XYES NO	
	X8.9.3	Alternator Capacity: 105 AMPS brushless with internal regulator	
	X8.9.4	Lighting:All lighting conforms to the West Virginia Motor Vehicle CodeX_YESNO	
		Unit features daytime running lights X_YESNO	
		Cab marker lights are LED type with halogen headlamps. X YES NO	
	X8.9.5	Is auxiliary snow plow lighting package included YES NO	
	X8.9.5.1	Will truck vendor eliminate rear taillights X YES NO Is there at least eight (8) foot of wiring bundled at end of frame for body vendor hookup of taillights provided in dump bed body X YES NO	
	X8.9.6	Will manufacturer YES _X _NO or successful vendor _X _YES NO make provisions for manufacture approved wiring and weatherproof disconnect plug	
		X YESNO	
		Manufacturer and Part number WEATHER PAC, PART NO. 1211075	
		Will there be three (3) foot "pigtail" to operate front combination left and right turn/park	
		lights/auxiliary headlights. XYES NO	

54	v.	
X8.9.6.1	Is weatherproof disconnect plug located at lower left front grille/bumper area YES NO	
	Are all wiring connections weatherproof with wiring encased in wire looms X YES NO	
X8.9.6.2	Are provisions for 7-way trailer connection light socket mounted at rear of truck frame	
	Manufacturer and Part number COLE HERSEE, PART NO. 12063	
X8.9.6.3	Will manufacturer provide body builder circuit interface capability with connection Plug located at rear of frame for body builder connection to stop, tail, and marker light circuits, ignition controlled auxiliary feed to ground to provide splice free chassis wiring integrity XYESNO	
X8.9.6.4	Will manufacturer provide body builder circuits – three (3) switches located in the dash instrument panel with one (1) weather protected body builder connection bo	
	or module located at the rear under cab. XYESNO	
	Is this power module 20 amps per channel, 80 amp maximum output X YES NO	
	Do the dash switches control the power module with LED backlighting SEE "EXCEPTIONS TO SPECIFICATIONS" X YES X NO	
X8.10 Transn	nission	
Manuf	acturer: ALLISON Model: 3500 RDS2	
	ne: SPICER SPL 140 SEE "EXCEPTIONS TO SPECIFICATIONS" have a greasable main shaft X YESNO	
X8.12 Rear A X8.12.1	xle: Rated Capacity: 23,000 Lbs. Single reduction includes driver controlled main locking differentialXYESNO	ğ.
X8.12.2	Rear Spring Capacity: 23,000 Lbs. including 4,500 lb. capacity load stabilizer Springsx_YESNO	
	Does it provide sufficient clearance between spring, brake chambers, and tires to operate with single tire chains YES NO	;
X8.12.3	Gear ratio: 6.14 Are vehicles capable of a top speed of 70 MPH X YES NO	

X8.12.4	Is rear axle differential, transmission, and front wheel lubrication reservoirs filled with synthetic type lubrication and provided with magnetic drain plugs where applicable
X8.13 Front A X8.13.1	Axle: Capacity: 14,000 lbs. I-beam type
X8.13.2	Front Spring Capacity: $14,000$ lbs.; $14,000$ lbs. rating for use with front plow
X8.13.3	Manufacturers heavy duty shock absorbers X YES NO Make: HINO
X8.13.4	Front wheel oil lubricated wheel seals X YES NO Make: STEMCO
X8.14 Brakes	s:
X8.14.1	Type: Full air, with manufacturers ABS with traction control in compliance with the most current FMVSS requirements YES NO
X8.14.2	Compressor: Model and Make: DENSO 10.0 CFM
X8.14.3	Service Brake Size:
X8.14.3.1	Front: 16.5"x5.0"
X8.14.3.2	Rear: 16.5"x7.0"
X8.14.4	Parking Brake: Spring set, air release actuating rear axle service brakes XYESNO
	Instrument panel control X YES NO YES MGM
X8.4.4.1	Are all brake chambers sealed brake chambers with epoxy exterior coat on front and rear chambersX YESNO Make: _MGM
X8.14.5	Air dryer with heater X YES NO Make and Model: BENDIX AD-IP
X8.14.6	Manufacturer's standard air tanks for service brakes; auxiliary tank for parking brake YES NO
X8.14.7	Low air pressure warning light and buzzer YES NO
X8.14.8	Do brakes meet all current Federal and State FMVSS requirements X YES NO
X8.14.9	Are brake dust covers installed on all wheels YES NO
X8.14.10	Is unit equipped with tractor protection valve and hand control valve to accommodate installation of glad hands at rear of frame rails to enable unit to pull an air-braked trailer

X8.14.10.1	Are glad hand recessed as not to stick out past end of fra			0	
	<u>A</u>	XES_	N	U	
X8.15 Tires					
X8.15.1	Wheel, Front and Rear $\underline{22.5}$ x $\underline{8.25}$ hub piloted steel disc t specified tire size			modate NO	
	Make and Model: ACCURIDE - 28828 with 0.472 inches	thickn	essX	_YES	NO
	All wheels include wheel guard separators SEE "EXCEPTIONS TO SPECIFICATIONS"	YES_	X N	0	
X8.15.2.1	Tires: (Describe) SEE Front: BRIDGESTONE 11R22.5/H/16PLY HIGHWA N TO SY BCIFICA TIONS "	Y R2	50		
X8.15.2.2	Rear: BRIDGESTONE 11R22.5/G/14PLY ON/OFF	HIG	HWAY N	1725	
X8.16 Manu	afacturers standard power steering for front axle specified X	YES_	N	0	
Manu	ufacturer: TRW				
X8.17 Feati	res considered as standard equipment not specifically addressed	:			
3 <u>Y</u>	R/24 HOUR EMERGENCY ROADSIDE ASSISTANCE				
770.40 70 1			····		
X8.18 Paint X8.18.1	Specify cab exterior and interior color and paint type:				
	BOTH INTERIOR & EXTERIOR ARE HINO WHITE & US	E IM	RON F3	3405Hl	**************************************
X8.18.2	Is truck grille manufacturer's standard similar to silver/aluminum in	a color	?_X	YES	_NO
X8.18.3	Are fuel tanks, steps, air tanks and battery box non-corrosive coated	1?X	YES	N)
X8.18.3.1	Is wheel paint provided as specified?	X	YES_	NO	
X8.18.4	Detail/Decorative Stripes with Logo:				
X8.18.4.1	Are stripes provided 2" type with taper at front of hood?	X	YES_	NO	
X8.18.4.2	Does the conspicuity striping material provided meet rec 8.18.4.3 through 8.18.4.6 of the specification section?			Section NO	
	Will you install the striping?	X	YES_	NO	
X8.18.4.7	Is your proposed paint plan attached with your bid?	X	YES_	NO	
•	If not why?				

X8.18.4	4.8	Will	you use mar	ufacturer's sta	andard	plant procedure		oping of cab	
X8.19	Does th	e proposed	unit meet o	r exceed the '	'OSHA	A of 1970" and	or subse	quent chan	ges?
X8 20	Does th	e unit confor	m to the adv	vertising guide	lines?	(Describe)		X YES _	NO
210.20			•	IFICATION					
	AS S.	PECIFIED	IN SPEC.	LEICALION	0.20				<u> </u>
			1			***************************************		·····	
X8.21	Prevent	ive Maintena	nce and Op	erator's Traini	ing Sch	ool:		•	
X8.21.	1	Will a preve	ntative mai	intenance and	l opera	ator's training	seminar _X	be provide YES	d? NO
X8.21.2		If you are the required in co			ou furr	ish all training	aids, i.e.,	videos, pro YES	jectors, NO
X8.21.	;	service sched	lule be deliv	ered with eacl	h unit?	eventive maint	X	YES	edures, and NO
X9.0	The bid unit to the basi	der should co he specificat s that such fe	omplete the ions. Shoul	following sch d the bidder e offered by the	edule i xcept a manu	MBINATION Donorder for the larequirement, the facturer. The Donorder irements of the	Division t hen such o Division w	o compare t exception m ill have the	he actual bid ay be only on
	Referen	ce Requisitio	on No. on re	equest for prop	osal: _	709EC011		*********	
	Bidder'	s Name:	VEST VIR	GINIA TRA	CTOR	COMPANY			
	Addres	s: <u>PO BO</u>	473, C	HARLESTON	, WV	25322			
	Teleph	one Number:	304-34	6-5301		·			e
	Years (Company has	been an aut	horized deale	r for pr	oposed unit:	5	Yr	s.
	Manufa	acturer, mode	el, series, an	d date of man	ufactur	e of proposed c	ombinatio	on dump/spi	eader body:
	VIKI	NG PROLII	NE MODEL	CBlOllLW	10'	STAINLESS	STEEL	COMBINA	rion
	BODY	MANUFAC:	rured in	2009 OR	LATE	R AS ORDERI	ED		

	Is descriptive literature, fully describing proposed dump/spreader body attached to your bid? YES	NO
	If NO, why	
	When will required number of operating manuals, service manuals, and complete parts list be to the Equipment Division at Buckhannon? prior to delivery of unit orWITH_	
	Will combination dump/spreader body have minimum 2 year basis warranty including plabor excluding abuse and normal wear items YES	
X9.1	Body capacity 6 cubic yards water level	
X9.2.	Sideboard pockets and tailgate height provide additional capacities of 1.5 cubic yard	
X9.3	Front body bulkhead 3/16 inch 304 stainless steelX_YES	NO
X9.4	Cab shield has sufficient clearance to ensure shield will not hit exhaust when dumping on terrain? X_YES	
X9.5	Two (2) front truck frame mounted tow hooks or eyes accessible through the bumper X YES	NO
X9.6 X9.6.1	Dimensions:	
X9.6.2	Inside width of body 96 inches wide to maximize capacity and lower the cen gravity of the unit	ter of
X9.6.3	Outside width of body inches at the integral fenders	
X9.6.4	Body spacing from cab inches	
X9.6.5	Basic minimum side height36inches (measure from the floor to top rail)
X9.6.6	Tailgate minimum height 46 inches (measure from the floor to top rail)	~
X9.6.7	Body overhang 10 inches to 18 inches (measure from center of him	ge pin)
X9.6.8	Cab protector 24 inches x 96 inches with adequate clearance for ca air horns	b mounted
X9.7	Is cab protector sloped rearward for drainage purposes X YES	NO
X9.8	Construction of the body sides, front, head, and tailgate conform to the following minim Specifications	um
	Steel types are 304 stainless steelX_ YES	NO
X9.8.1	Floor:1/4_ inch thickness	

X9.8.2	2	Sides:3/16 inch thickness					
X9.8.3	3	Tailgate plate:3/16 inch thickness					
X9.8.4	1	Top rail:3/16 inch thickness					
X9.8.5	5	Cab protector:10 gauge					
X9.8.6	5	Longitudinal:12 inch7 gauge 304 stainless steel for stainless steel formed with internal stainless steel gussets every				gauge 3	304
X9.8.7	7	For future potential pre-wet application, will the combination frame mounted approximately 75 gallon poly liquid tanks.	body b	e capal _ YES _	ble of	'accept NO	ing
		Will the body be designed to allow maximum protection to the	e tanks .	_X	YES]	NO
X9.9	Is all v	velding inside the body continuous, not skip welded.	_X_	_YES_		NO	
	Are all	rails and posts continuous welded	X	_YES_		NO	
X9.10	Are the	e rear corner posts full length, one (1) piece construction	X	_YES_		NO	
X9.10.	.1	Is a rear bolt on spreader apron provided Is it integrated into the rear of the bed		YES _			
X9.11		otector sides, formed with gussets, extend forward _24 inches. is3_ inches	Clearar	ice abo	ve hig	ghest po	int
X9.12	Is the	body a unibody design – no crossmembers	X_	_YES_	····	NO	
X9.12.	.1	Does the body have one (1) piece sides and floor which incorportion to side radius			g	NO	
		Degree of slope to adequately feed material to the conveyor ch	ain	_35			
X9.12.	2	Do the sides of the body slope to the conveyor to facilitate self clear	-	f body v _YES _			ıg
X9.13	The bo	xed top rail is sloped inward to shed debris	X	YES _		NO	
X9.14	Full leagallon)	ngth 304 stainless steel integral rear fenders which incorporate		liquid YES_			75
X9.15		egrated center conveyor provides the ability of the body to conv		nular n VES	nateri	ials wit	h

X9.15.1	Does the conveyor have no more than 12 inch truck frame to bod	ly floor height for lowe	r center
	of gravity and lower mounting height	XYES	NO
X9.15.1.1	Have you used wood YES _X NO Type of mate	rial: _Poly	·····
X9.15.2	1/4 inch 304 stainless steel conveyor floor YESX steel (AR400)	NO or ¼ inch abrasion _X_ YES1	
X9.15.3	2 inch diameter front and rear shafts with eight (8) tooth sprocket	tsXYES]	NO
X9.15.4	Drive sprockets are double keyed to shaft	_X_ YES 1	NO
X9.15.5	Conveyor width – 25 inches or more	_XYES1	NO
X9.15.6	Conveyor is reversible	_XYES	NO
X9.15.7	Conveyor is driven with 25:1 planetary gearbox drives or equal o with 5.0 CIR hydraulic motors	n both the front and rea _XYES1	
	One (1) motor has an integral conveyor speed sensor	_X_ YES 1	O
X9.15.8	Conveyor chain is D667K pintle type (24,500 lb. tensile/strand) vinch conveyor crossbars welded to every link	vith minimum 3/8 incl	
X9.15.9	A 10 gauge 304 stainless steel bolt in pan under the conveyor to k	ceep material off chassi _XYES1	
X9.16 The	body has the capability to convey to the front or the rear with a ributing material:X YES	material spinner for	
X9.16.1	For front spreading, a front feedgate integrated into the head shee _24 inches	t of the body _8 inc	hes x
X9.16.2	A 304 stainless steel front spinner chute is mounted between of the body down be completely enclosed to prevent material fro shaft	chassis frame rails and om dropping on chassi _XYESN	is drive
X9.16.4	Is the rear feed gate lever operated YES NO or screw a	adjustable _XYES_	NO
	Is the feedgate capable of being positively locked into position	_XYESN	10
X9.16.5	Is the front spinner bracket and chute mounted to the truck c successful vendor	hassis frame and insta X YES N	
X9.16.6	The spinner is universal and mounted at the front for delivery at front or rear	and may be usedXYESN	Ю
X9.16.7	Spinner assembly is adjustable left to right, and up and down	to assure accurate	

61	placement of material on spinner disc to facilitate control of s		attern. YES	NO
X9.16.8	10 gauge 20 inch diameter spinner disc has replaceable machined	hub _X_	YES _	NO
X9.16.9	Is the spinner 409 or 304 stainless steel	x_	_YES	NO
X9.16.10	If spinner hydraulic motor is mounted on top of spinner disc, removable material shedding protective cover		otor enclo	
X9.17 Hyd	raulic Hoist:			
X9.17.1	Trunnion Mount _X YES NO			
X9.17.2	Telescopic hoist is no less than N.T.E.A. Class 40	_X_	YES	NO
X9.17.3	Single hoist cylinder is trunnion mountXYESNO			
X9.17.4	Single acting hoist cylinder has three (3) stages with _90 inc a four (4) inch diameter first Stage Manufacturer and part number: _MAILHOT CS-90-4	ches of st x 4-3	troke with _YES	NO
X9.17.5	The cylinder has wear and corrosion resistant nitrided cylind			
X9.17.6	Cylinder warranty:2 years			
X9.17.7	A five (5) degree oscillating cylinder collar protects the cylind		st side stre	
X9.17.8	The body has 6 inch x 8 inch x 1/2 inch structural angle rear l truck chassis frame		sembly ins YES	
X9.17.9	The rear hinge assembly has cold roll steel hinge pins connect hinge blocks with grease zerks		1/2 inch YES	_NO
X9.18 The	following features are included:			
X9.18.1	Warning light (bed raised) control console mounted	_X	YES	NO
X9.18.2	Hydraulic oil level reading	_X	YES	_NO
X9.18.3	Safety decals as required	X	YES	_NO
X9.18.4	304 stainless steel mud guards, 10 gauge x 24 inches x 30 inche front of rear wheels	-	nently att	
	Will exhaust stack be aligned for body clearance	_X	YES	NO

All connections have sure snap plug assemblies and epoxy sealed electronics to protect against shock

_X___ YES ____ NO

__X__ YES ____ NO

X9.19 Lighting: Weather/shock resistant lights LED type with average amp draw between .045 - .72

Manufacturer and Model: TRUCKLITE

and vibration

X9.19.1	All marker lights 2 1/2 inch diameter flush mount sealed beam li mounted in rubber base		integral	
X9.19.2	All ground wires attached with plated steel fasteners		_ YES	
X9.19.3	Rear lights shock mounted, recessed oval stop, tail, turn, and recomounted in back post		al back up _ YES	
	Strobe lights marked and switched from dash board location	_X	_YES	NO
	Make and Model:TRUCKLITE #60360Y			
X9.19.4	Center rear I.D. lights three (3) located in truck chassis	X_	_ YES	NO
X9.19.5	Two (2) amber oval LED strobe lights mounted at the front corner (2) amber oval LED strobe lights mounted at each outside corner Make and Model:TRUCKLITE #60360Y	of the ca	cab prote ab protecto YES	or
	Strobe lights marked and switched at dash board location	_X	_ YES	NO
X9.19.6	Auxiliary headlights for snowplowing application shock mounted Make and Model:TRUCKLITE _80888		ler of unit _YES	
X9.19.7	Two (2) oval amber LED strobe lights mounted at top of rear conswitched in combination with cab protector strobe		right and YES	
	Manufacturer and Model: TRUCKLITE #60360Y	11Feetonaar		
X9.19.8	Two (2) rear frame mounted tow hooks	_x	YES	NO
X9.19.9	Lighted license plate bracket	_X	_YES	NO
X9.20 Are	the following at the front or rear both sides of the body:			
X9.20.1	304 stainless steel fold down ladder that locks into position when position		the down	-
X9.20.2	Two (2) 304 stainless grab handles	_X	YES	NO
X9.21 Tail	gate (304 stainless steel):	X	YES	NO
X9.21.1	Tailgate hinged at top, flame cut hardware, pork chop type off-set opening of tailgate, but has provision for pivoting at the bottom			
X9.21.2	Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots	_X	YES	NO
X9.21.3	Heavy duty offset hinge plates, one (1) inch flame cut 304 stainles	es steel	X VE	S NO

X9.21.4	3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel latch plates							
		X	_YES	NO				
X9.21.5	Full perimeter 304 stainless steel boxing with all horizontal edges slop		outward _YES	NO				
X9.21.6	Two (2) 10 gauge 304 stainless steel sloped horizontal braces that a Boxing		flush with	-				
X9.21.7	7 gauge 304 stainless steel 10-12 inch x 24-26 inch rear feedgate	X _	_YES	NO				
X9.21.8	Cold roll steel upper pins with grease zerks	X_	_YES	NO				
X9.21.9	Top hinge channel has removable, chain tethered keeper pins	X	_YES	NO				
X9.21.10	Latching action at the bottom of gate operable by the truck driver with		leaving th_YES					
X9.21.11	Gate is self aligning	X	_YES	NO				
X9.21.12	Tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter _X		_YES	NO				
X9.21.13	Body integrated or bolt on 304 stainless steel 15 inch spreader apron_	_X_	_YES	NO				
hoist	ign and strength characteristic of the entire body such that the unit structur ting system will not suffer any deformation, damage, or structural failure ributed full payload _X	resu		ı raising a				
X9.23 Bum	nper:							
X9.23.1	Bumper formed out of 1/4 inch roll steelX_ YES NO							
	Weighs _10.2 _lbs. per square foot							
X9.23.2	Bumper face covers all of truck frame (_12 inches) with two (2) flame and bottomX		s of _2 ¼_ YES	_				
X9.23.3	Overall width of bumper: _94 inches							
X9.23.4	Bumper straight across front from centerline of truck chassis _21 inche	es e	ach side o	f				
	Centerline, making bumper straight _42 inches long in center with e	nds	swept ba	ck				
	30 degrees and _27 inches each side.							
X9 23 4 1	Does humner have two (2) access holes for utilization of tow h	001/	·c Y V	TS NO				

Steel cab protector mounted triple bend wind deflector provided X_YES____NO

X9.25.8

X9.25	. 0	Yandamada amada amada an Alamada
A9.43	7.9	Load covering system provided with a _18 oz. black vinyl tarp to fit 10 foot bodyx_ YES NO
X9.25	.10	Load covering system supplied with all necessary hardware and delivered to the West Virginia Division of Highways as a complete and operational unitXYESNO
X9.26	.1 - X9.	
	All non	stainless steel surfaces will be shot blasted the one coat of primer and one top coat will be
app	lied	
X9.27	Detail/ Will st	Decorative Stripes with Logo: criping and detailing you provide comply with requirements of Section 9.27.1 through 9.27.7 _XYESNO
V 0.20	A 11 1	
A9.28	All Do	dy features considered as standard, but not specifically addressed:
A	dl inclu	ded

X9.29	Does th	he proposed unit meet or exceed the "OSHA OF 1970" and/or subsequent changesX_YESNO
X10.0	SPECII	FICATIONS - CENTRAL HYDRAULIC SYSTEM

A front mounted telescopic dump body hoist cylinder, a hydraulically driven integrated salt and abrasive

Is the central hydraulic system designed to operate the following:

spreader system requiring the simultaneous operation of two (2) hydraulic motors in two (2) different modes with conveyor reverse, a single acting snowplow lifting cylinder, a snowplow power angle system, and an auxiliary equipment drive circuit

_X__ YES ____ NO

Bidd	er:West Virginia Tractor Company	
Addr	ress:P.O. Box 473 Charleston, WV 25322	
Telep	phone Number: _346-5301	
Years	s company has been an authorized dealer for proposed unit:5	5 years
Manı	ufacturer, model, series, and date of manufacture of proposed cen	ntral hydraulic system:
Co	omponent Technology Model SG03040008 West Virginia System	n Manufactured as required
fc	or contract	
Is des	scriptive literature full describing proposed central hydraulic systosal?	rem attached to your bid _X YES NO
If NC	O, refer to specification statement Section 6.6	
Wher to the	n will required number of operating manuals, service manuals, are Equipment Division at Buckhannon?x prior to delive	nd complete parts list be delivered er of unit or _At time of delivery_
Pre-V	Wet system:	
Does	spreader control contain the ability to control a closed loop pre-v	wet system _XYESNO
Does	system operate using a flow meter feedback circuit	_X_ YES NO
Does Ton	controller software allow for adjustability of pre-wet output by o	operator, presented in gallons per tXYESNO
Pre-w	formation related to pre-wet application rate and total flow in gall vet system is active to stop truck to view operator screen	ons displayed on the screen while _XYESNO
	central hydraulic system have minimum 2 year basis warranty ince and normal wear itemsX_YES	cluding parts and labor excluding S NO
•	System:	
.1.1	Pump: Variable volume pressure compensated load sensing ax	ial piston type _X YES NO
1.2	Front mounting flange and main housing/case of cast iron cons	struction_X_YESNO
	Inlet and outlet port section of high strength ductile iron with S	
		_X YES NO

X10.1.3	Is suction port and associated plumbing sized to allow for misbetween the pump and the suction port on the reservoir	nimum inlet restriction _X_YESNO	
	Does installation comply with pump manufacturers allowable \underline{X}	e inlet condition specifica YESNO	tions
	Is suction plumbing equal to or greater than pump inlet or su	action sizeX_YES	_NO
X10.1.4	Is pressure port of the SAE split flange type or ORB side mounte solenoid shut down valve assembly	ed for direct bolt mountingXYESNO	of
X10.1.5	Case drain and load sense signal ports of the SAE O-ring type	_X_ YES NO	
	Case drain line taken directly to tank without passing through the	e return line filterXYESNO	
X10.1.6	Input shaft has a minimum continuous torque rating equal to when pump is operated at maximum engine rpm, maximum opressure	o _200_% of the imposed displacement and system _X YES NO	load
	SAE "C" keyed	_X YES NO	
X10.1.7	Front input shaft bearing heavy duty ball or roller type designed f	for high axial and radial loa XYESNO	ıding
	Rear shaft bearing of the high speed and load sleeve type design	_X_ YES NO	
	Bearings fully lubricated by flooded case oil	XYES NO	
X10.1.8	Ramp/swashplate supported by pressure lubricated bearings of the high piston load support	e rocker cam or saddle type XYESNO	e for
	Ramp angle positioning by means of dual servo control cylinders precise pump output control	for rapid pump response asX_ YES NO	nd
X10.1.9	Adjustable load sense and high pressure compensator control valvor of bolt on housing design for ease of replacement and repair	ve assembly of the full cartX YES NO	ridge
X10.1.9.1	System design and components provide flow, pressure requirements with a maximum operating load sense di _300_ PSI and a maximum standby pressure of _350_ efficiency.	ifferential pressure of	
	If pilot control shifted valving is used, is it designed to pressure range	be fully functional withinX YES NO	ı this
X10.1.9.2	High pressure compensator valve preset to limit the maxin	num pump output pressure	to to

	maximum required operating pressure plus load sense differential and margin pressure to prevent premature de-stroking of ramp resulting in reduced or insufficient pump output _X YES NO
X10.1.10	Pump Output: Is it capable of providing hoist cylinder extension required for a 50 degree Body dump angle in 13 seconds at 1500 engine RPM at a 1000 PSI system loadXYESNO
X10.1.11	Is the make and model bid in compliance with overall quality of construction, design, and performance of the pump suppliedX_YES NO
X10.1.12	Pump: Manufacturer and Model:REXROTH A10VO71 SERIES 31
X10.1.13	Is pump manufacturers standard product release and design _X YES NO
X10.1.14	Is pump driveline assembly of the keyed shaft design utilizing a 4 bolt driveshaft flange and matching drive yoke on the pump XYESNO
X10.1.14.1	Does driveline have a minimum continuous torque rating equal to 200% of the imposed load when pump is operating at maximum system requirements
	XYESNO Manufacturer and Model:SPICER 1310 SERIES
X10.1.14.2	Are dual journals and yokes incorporated to connect the pump shaft and engine drive flange with an angular misalignment no greater than six (6) degrees and not less than two (2) degreesNO
X10.2 Pump X10.2.1	Shutdown System: Normally closed, energize to open, solenoid operated control valve of the cartridge and manifold design to be directly bolted to pump pressure port XYESNO Normally open, energize to close
	Is solenoid electrical connection of the Packard "Weatherpack" type with "SO" cable wiringXYESNO
X10.2.2	Is valve controlled by a console mounted "Master On" switch with pilot lamp for normal system operation and by a float switch located in hydraulic reservoir to automatically shut off pump pressure port flow to all down stream functions in the event of low hydraulic oil level _XYES NO
X10.2.3	Pressure drop across valve _40_ PSI at _40 GPM flow when in the switched position
	Nominal valve rating _50 GPM at _3500_ PSI
X10.2.4	SAE #6 gauge port equipped with Parker Hannifin Model PD361 diagnostic coupling nipple and protective cap provided for pump output pressure testing to be installed in valve manifold and within an easily accessible mounting position XYES NO

__X__YES___NO

Main pressure inlet relief valve provided to reduce system pressure shock loads

X10.3.7

	premature relief opening at system high demand operation	7	tor and to p	
X10.3.8	If pilot pressure reducing valve is required for solenoid section operating requirements as set forth in Section 10.1.9.1		ol, design n YES	
	Pilot supply and tank venting internal within the valve assembly s	ection_	_X YES	NO
X10.3.9	Load sense network high pressure relief provided and preset to lin pressure		m maximui YES	
	Set point provides proper pressure margin to pump pressure comp valve as to prevent premature loss of required flow rates and press	sure cap	ability	
X10.3.10	SAE #6 gauge port equipped with Parker Hannifin PD361 diagnost protective cap for load sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing to be installed in an easily according to the second sense testing test	stic cou	YES pling nipple	
	provided the first round obtained to obtained in an easily dec		YES	NO
X10.3.11	Dump body control section 3-way three (3) position spring centered of a single acting hoist cylinder		der spool fo YES	
X10.3.11.1	Full flow workport relief valve installed in power up port	_X	YES	NO
	Set point to prevent operating pressure from exceeding hoi pressure rating	-	der normal (YES	
X10.3.11.2	Flow limiting system preset at required flow rates provides Section 10.1.10 as maximum for dump body up and down operation	to reduc	nance as sta ce system or YES	ver demand
X10.3.12	Snowplow lift control section is 3-way three (3) position spring ce float detent for operation of a single acting lift cylinder with pilot of	controlle		valve
	Does the valve design require a load holding check valve to proper		the plow w	_
X10.3.12.1	Full flow workport relief valve preset at maximum required power down workport		c pressure ir YES	
	Workport relief valve installed in power up workport if ma setting exceeds normal operating pressure limit of plow lift	cylinde	er	-
	Is a three (3) way valve provided for plow hoist circuit		YES YES	
X10.3.12.2	Adjustable flow control installed to limit downward speed	of		

a manifold _X YES

X01.3.16.2

X10.3.16.3

Is the hydraulic valve of the sectional type ____ YES OR of the cartridge style contained in

Is a manifold type valve supplied __X_ YES ____ NO Is it attached to the main

	valve assembly	X YES NO
X10.3.16.4	Is all wiring to the pre-wet hydraulic circuit prov	- · · · · · · · · · · · · · · · · · · ·
		X YES NO
X10.3.16.5	Is the wiring to control console related to the rest float, flow meter connection, etc.) provided as pa time of pre-wet system install	
X10.4 Spres	ader Control Valve Assembly:	
X10.4.1	Are spinner and conveyor solenoid flow controls of the PW equipped with manual overrides	M proportional solenoid type andX_ YES NO
	Are overrides manually adjustable over operating flow rang failure	ge in the event of electrical systemXYESNO
X10.4.2	Flow control circuits are pressure compensated	_X_ YES NO
	Provides spinner flow rate of7 GPM and a conv	veyor flow rate of15 GPM
	Pressure relief valve system limit circuits to2200	PSI
X10.4.3	Load sense circuits connected to directional control valve no	etwork for proper pump controlXYESNO
	Does design prevent improper high pressure load sense s when spreader valve is not in use and when spreader qu	signal and pressure line loading
X10.4.4	Is PWM solenoid control supplied by microprocessor spread	
	Are solenoids capable of 100% PWM signal without failure	XYESNO XYESNO
X10.4.5	Solenoid operated directional control valve and in-cab mour spreader conveyor reverse required for front or rear material	nted electrical switch operates I discharge selection provided _XYESNO
X10.4.6	Is electrical switching and indicator light for spreader clogge	ed indication providedXYESNO
X10.4.7	Manufacturer and model of valve:Rexroth MP-18 S	Series
X10.5 Spread X10.5.1	der Control System: Dual flow, ground speed oriented spreader control system of	
	based type with nonvolatile control memory	X_ YES NO
X10.5.2	Automatic calibration and flexibility of programming	X_ YES NO

__X__ YES ____ NO X10.5.15 Is a built-in ground speed simulator provided either internal to the control or located in the control console X YES NO X10.5.16 Are all components required for proper installation and operation of control system onto 32

	truck and spreader units supplied	_X	YES	NO
X10.5.17	Manufacturer and model of proposed control system :			
	Component Technology SG51/SG53 with GL400 Control			
X10.6 Cent X10.6.1	tral Control Console: Mounted between seats within easy access of the driver	X_	YES	NO
X10.6.1.1	Is warning light (bed raised) control console mounted	X_	_YES	NO
X10.6.2	Will all wiring, valve control cables and electrical harness en sealed with grommets		cab and c _ YES	
X10.6.3	Are remote control valve levers console mounted	_X	_YES	NO
	Are all levers clearly marked as to function and operation	X_	_YES	NO
X10.6.3.1	Remote control levers to operate push-pull type cables word ends		diameter s	
X10.6.3.2	Is inner cable member 18-8 stainless steel armor wrapperesistance nylon liner and polyethylene covered tempered	d construct d steel win	ction with re conduit	a low
X10.6.3.3	Is cable to valve connection of the weather resistant b	onneted		
X10.6.3.4	Is hoist control lever OSHA compliant (hoist interlock		YES	
X10.6.4	Are central control console or dash mounted rocker switches wit strobe lights, spreader light and plow lights isolated from all hyd	h indicate Iraulic sys	or lamps p	rovided for ol circuits
X10.6.4.1	Are interconnections and cables installed and ready for o	peration _	_XYE	S NO
X10.6.4.2	Is hydraulic system automatic shutdown system and cont		ing relay o	
X10.6.4.3	Relay mounted within the cabXYES	NO		
X10.6.4.4	Is an access plate to internal wiring provided _X YES	S N	O	
X10.7 Hydr X10.7.1	aulic Reservoir and Valve Enclosure Assembly: Hydraulic reservoir _40 gallon operated capacity flex mounted valve enclosure assembly		assis fram YES	
X10.7.2	Tank constructed of _7 gauge 304 stainless steel	_X	YES	NO

76					
X10.7.3	Tank equipped with a combination oil level sight glass and thern	nometer .	X YE	ES N	10
X10.7.4	Tank equipped with a pressurized ten (10) micron filler/breather strainer		removabl YES		on
X10.7.5	Is an internal steel baffle provided within the tank	_X	_ YES	NO	
X10.7.6	Tank stenciled with minimum of 1 1/2" high "Hydraulic Oil"	X_	_YES	NO	
X10.7.7	Tank level switch connection "SO" type wiring and mounted wit protect it from elements		valve enc		
X10.7.8	Pump supply suction port _2 inches NPT and system repo	ort port	1 1/4	inches NF	Ϋ́
X10.8 Filtr	ration:				
X10.8.1	Manufacturers standard filtration to adequately protect the hydrau		em from da _YES	-	
X10.8.2	Return line filter isolated from reservoir by a full flow non-restriction valve if filter is not installed in the reservoir		e quarter to _YES		all
X10.8.3	Each filter equipped with a differential pressure switch to indicate means of a console mounted indicator lamp		logged cor _YES		
X10.8.4	One (1) extra replacement filter for each assembly is provided		h truck _YES	NO	
X10.8.5	Filter assemblies positioned as close to reservoir as possible and location		ily accessi _YES)
X10.9 Hose	es and Fittings:				
X10.9.1	Each hose assembly (hose with hose ends) except for suction hose connections on ends where connection to system component is m	e is fitted ade _X_	l with JIC YES	swivel NO	
X10.9.2	All pressure line hoses meet or exceed SAE Specification 100R2 pressure hose, type C2AT for sizes up to and including 1 inch ID	and are e	equal to G YES	ates high NO	
X10.9.3	Suction hose 2 inch nominal ID and meet SAE Specification 100l reinforced, rubber covered hose with replaceable bolt-on type fitti	R4, braidings _X_	led fiber, s YES _	piral wireNO	
X10.9.4	All hydraulic hoses fully cleaned on interior, installed, and ready	~	ition YES	NO	
X10.9.5	Are grommets used when routing hoses through steel bracketing of		members YES	NO	
X10.9.6	Snap tite quick disconnects (manifold mounted) supplied for t 1/2 Inch pressure and return lines		ard and r YES		er

Are all fittings and connectors steel type designed for high p	ressure hydraulic system use
	XYESNO
Pipe thread ported components and connectors are only used available with SAE or JIC porting	when the specific component is not _X_ YES NO
Are all pipe thread connectors used coated with liquid Teflo	n pipe sealer prior to assembly _X YES NO
Hoses that run to the front of truck chassis for snowplow fur the front bumper with sufficient access for pump service and	nctions are manifold mounted behind I snowplow hitch installation _X YES NO
Are snowplow lines equipped with complete 1/2 inch "VH" (coupler and nipple supplied) and metal caps and plugs	
is not specifically stated but are necessary for proper system lied and comply with recommended hydraulic industry star	n installation and operation are ndards:
initial servicing and pre-testing of hydraulic system be incl	uded for:
Initial fill of reservoir with a high grade 32 AW hydraulic flumarked on sight glass :	aid to approximately 40 gallon level,XYESNO
Start-up and initial run of hydraulic system, checking for leal	ks, excessive heat, system efficiency _XYESNO
Will you replace any defective component	X YES NO
Will you cover any defects discovered at time of plow install time of initial test of plow circuits	ation if equipment is not available atXYESNO
Refill reservoir to the 40 gallon operating level	_X YES NO
Refill reservoir to the 40 gallon operating level y hydraulic lines are located within 10 inches of exhaust system	
	Are all pipe thread connectors used coated with liquid Teflo Hoses that run to the front of truck chassis for snowplow fur the front bumper with sufficient access for pump service and Are snowplow lines equipped with complete 1/2 inch "VH" (coupler and nipple supplied) and metal caps and plugs as not specifically stated but are necessary for proper system blied and comply with recommended hydraulic industry stated initial servicing and pre-testing of hydraulic system be incl Initial fill of reservoir with a high grade 32 AW hydraulic flumarked on sight glass Start-up and initial run of hydraulic system, checking for leal Will you replace any defective component Will you cover any defects discovered at time of plow install

X10.14 If successful vendor, will you provide WVDOH with a compl normal maintenance on proposed unit	lete list of all filters required for _X YES NO
X10.15 Explain your training sessions with each purchase order (based o operation, maintenance, trouble shooting and calibration/program spreader controls and where will they be held:	
Three (3) One (1) Day Training Sessions per PO	

RFQ NO. 709E0011

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-
<u>X</u>	ing the date of this certification; or , Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or , Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or ,
2. X	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. X	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
require	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ments for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency acted from any unpaid balance on the contract or purchase order.
authorize	mission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and zes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid uired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information d by the Tax Commissioner to be confidential.
and ac	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate es during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
_	: MATHENY MOTOR TRUCK CO. Signed: My MULLWY

Title: CEO

March 23, 2009

Date:

^{*}Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

EXCEPTIONS TO SPECIFICATIONS - MATHENY MOTOR TRUCK COMPANY 10' DUMP TRUCKS ON 33,000 lb. GVW TRUCKS FOR RFQ NUMBER 709EC011

- 1. X4.2.1 I based the delivery of the Pilot model on receipt of the purchase order by April 25th. If purchase order is received prior to April 25th, you will need to add that number of days to the 132 days in my bid. Conversely, if purchase order is received after April 25th, you can deduct that number of days from the 132 days I put in my bid.
- 2. X4.2.1 The balance of the order will be filled at the rate of three (3) per week starting no more than sixty (60) days from acceptance of Pilot model. Therefore, based on the number of vehicles you order divided by three (3) deliveries per week will tell you how long it will take me to deliver completed trucks (following the the sixty (60) days).
- X8.5.2 Seats
 My Sears 70 seats are an approved equal.
- 4. X8.5.7.1 Drink Holder

 There is one (1) pull out dash drink holder and two (2) drink holders at right side
 - of driver's seat. We have a total of three (3) drink holders.

 5. X8.5.7.2 Air Horn
 - Providing single (1) air horn with dual trumpets that is mounted on right outside frame rail under cab behind right fender. Horn does not have a shield and is pointed downward. Picture attached.
- 6. X8.5.7.3 Rearview Mirrors

 Am providing dual heated & power flat mirrors that are 7.25"x 14.25" with separate 8"x 6" convex mirrors that are not power nor heated.
- 6. X8.6 Engine is 260 hp. Engine Torque is 585.
- 7. X8.6.2 Heated Fuel/Water Separator
 This is mounted on left outside frame rail under cab & at rear of cab. A picture of this is in my 8 1/2" x 11" fold out literature titled "Conventional Truck Product Line" as Item #7.

EXCEPTIONS TO SPECIFICATIONS CONTINUED - MATHENY MOTOR TRUCK COMPANY

- 8. X8.6.3 BW Air Dryer

 Model AD-IP. Information is attached.
- X8.11 Driveline
 Hino says the Spicer SPL 140 is Spicer's replacement for the 1710 series.
- 10. X8.15.2 Tires

 Front Tires are Bridgestone R250.

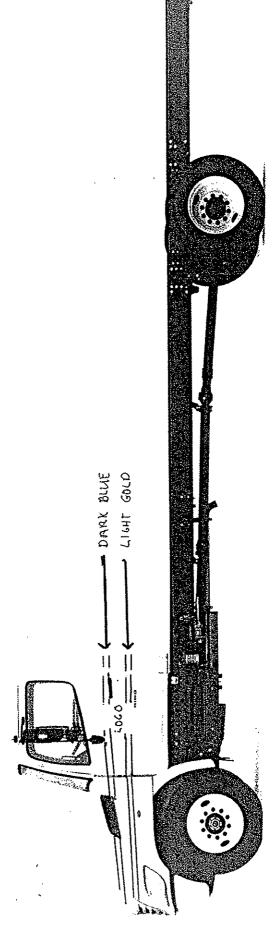
 Rear Tires are Bridgestone M725.

 The tread on the front & rear tires are the same as provided on the Hino Crew Cab Bridge Trucks.
- 11. X8.9.1 Manual Reset Circuit Breakers
 Hino truck does not have manual reset circuit breakers. Hino uses replaceable fuses and breakers.
- 12. X8.9.6.4 The three (3) dash switches for the snow plow lights, strobe lights & spot lights are backlighted with light bulb in the switch.
- 13. X8.15.1 Wheel Guard Separators
 Hino does not offer or recommend wheel guard separators.

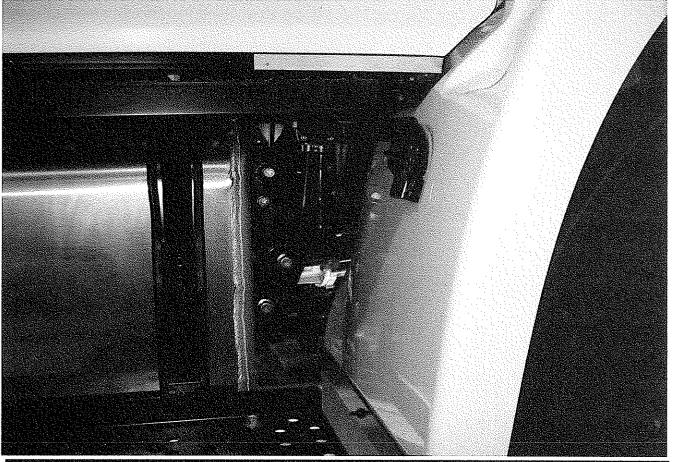
WEST VIRGINIA TRACTOR COMPANY

709EC011 Exceptions to Specifications

9.25.6 The load covering system has a torsion spring design in lieu of an extension spring design.



APPROXIMATE LOCATION OF WUDOH STRIPES, ACTUAL LOCATION TO BE DEFCRMINED WITH WUDOH APPROVAL.





X8.6.2 HEATED FUEL/WATER SEPARATOR

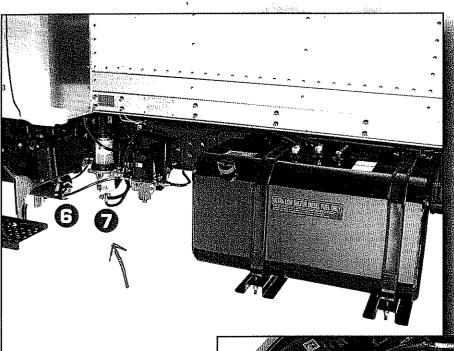
On the Outside

The beauty of Hino Trucks is more than skin deep.

Our well placed under-step battery box, air-tank and standard Davco heated fuel filter provide protection for these important components.

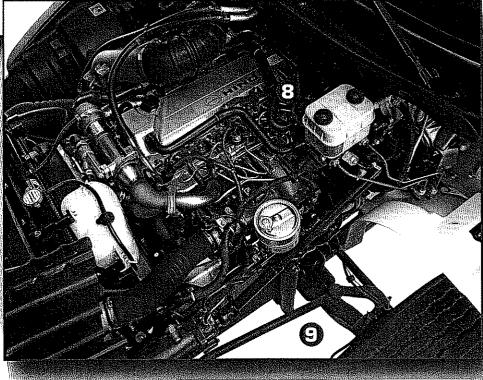
Additionally, our color-coded, easily accessible frame power drop connections make Hino Trucks the chassis of choice for body builders and upfitters.

All of the maintenance points were engineered with the mechanic in mind, making Hino Trucks the most serviceable medium duty truck.



Under the Hood

The engine—already known for its fuel economy, durability and low-maintenance—has been enhanced with (3) a closed crankcase ventilation system and a larger EGR cooler to meet the stringent 2007 emissions regulations. Glow plugs have also been made standard, to provide added benefit in cold weather climates. (2) Maintenance-friendly "stand-inside" wheel well makes routine service and fluid checks simple—one reason why HinoTrucks are the technician's choice.



HINO TRUCKS

A Toyota Group Company

CATALOG

08-A-18

AD-IP

AD-IP DI DROP IN AIR DRYER

Bendix

The purpose of the AD-IP DI is to permit ease of Installation of the AD-IP air dryer in a charging system that utilizes a Holset Type "E" or "QE" compressor. With the AD-IP DI in use the makeup line and single check valve, required in the Holset installation are incorporated into the AD-IP DI. The AD-IP DI air dryer is meant specifically for the Holset system. Utilize the standard AD-IP when other charging systems are in use.

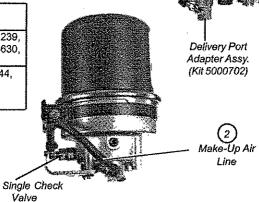
Weight VMRS 27.5 lbs. 13-010-033

Device Code

2415

AD-IP O.E. PART NUMBER TO SERVICE NEW & REMAN.

Service Pc. No. 800067	Reman Pc. No. 5000709	O.E.M. Pc. No. 5000708, 5000830, 5001239, 5001626, 5001736, 5006630,
800168	5001751	5003975 800248, 5001113, 5001744, 5002659, 5002662



MATHENY MOTOR TRUCK CO. P.O. BOX 1304 PARKERSBURG, WV 26102-1304



ECON CHECK VALVE KIT 109499 consists of the following:

ltem	Qty	Description
1	1	Single Check Valve
2	1	1/4" Tubing Assembly

Service Pc. No.	Reman, Pc. No.	Supply Port	Delivery Port	Heater & Thermo. Volts-Watt	Comments
800067	5000709	" PT	"" PT	12v - 90w	Notes 1, 2
800168	5001751	" PT	"" PT	12v - 90w	Notes 2, 3

Note 1 - All replacement air dryers include 109871(wire harness and splice kit)

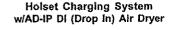
and 5001247 (mounting bracket kit).

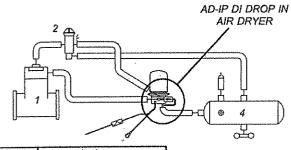
Note 2 - 12 & 24 volt air dryers are identified by connector color - White = 12v, Gray = 24v

Note 3 - Includes Econ Check Valve Kit and NO mounting kit

AD-IP DROP IN SYSTEM APPLICATION & INSTALLATION INFORMATION

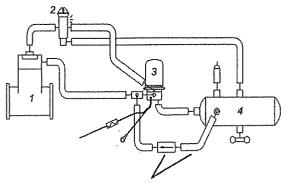
The AD-IP DI (Drop In) Air Dryer is meant for use in charging systems that use the Holset Type E or QE compressor.





Key	Description
1	Compressor
2	Governor
3	AD-IP Drop In Air Dryer
4	Supply Res.

Holset Charging System w/Standard AD-IP Air Dryer



This Make Up line and single check valve
INCORPORATED IN AD-IP DI

MAINTENANCE KITS

AD-IP

CATALOG 08-A-17

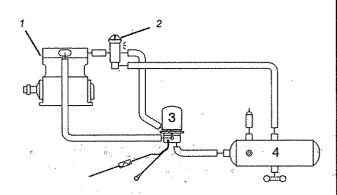
Oty. 1 2 1	WIRE HARNESS AND SPLICE KIT 109871 Description Wire Harness Assembly Un-insulated Butt Splice Connector 1/4" Eyelet w/Heat Shrink Insulator 3/8" Eyelet w/Heat Shrink Insulator	Adhesive Lined Heat Shrink Tubing	Eyelet w/Heat Shrink Insulator
2	2" Length Adhesive Lined Heat Shrink Tubing		
		Wire Harness Assembly	Un-insulated Butt Splice Connector

SYSTEM APPLICATION & INSTALLATION INFORMATION

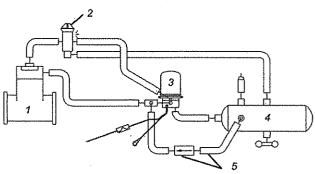
The AD-IP Air Dryer can be used in all the charging systems displayed below with the exception of the European style, Discharge Line Unloader system. Use the AD-9 Air Dryer shown on catalog page 08-A-31 for the discharge line unloader systems. Refer to Product bulletin Pro-08-12 for additional information on this subject.

Use the following component key for the charging system schematics below;

Typical AD-IP Air Dryer Installation Single & Two Cylinder Compressor (Except Holset E & QE)

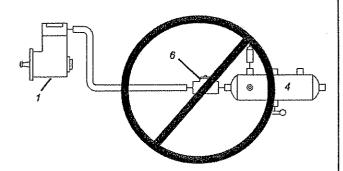


Typical standard AD-IP Air Dryer Installation Holset E & QE Single Cylinder Compressor

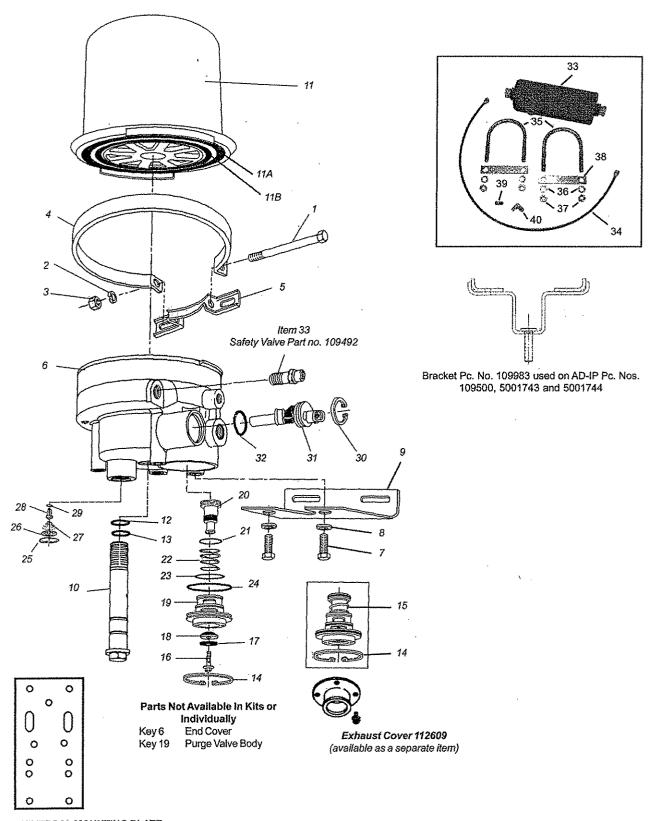


For Systems Using the Holset Type E & QE compressor, Use the AD-IP DI Drop in Air Dryer.

Typical Discharge Line Unloader Charging System USE AD-9 INSTEAD OF AD-IP (See Catalog Page 08-A-31)



Key	Description
1	Compressor
2	Governor
3	AD-IP Air Dryer
4	Supply Res.
5	Single Check & Feed Back Line (Holset only)
6	Discharge Line Unloader Valve



UNIVERSAL MOUNTING PLATE

Pc. No. 113209

(Can be used to mount any air dryer to vehicle)

AD-IP Piece Number Changeover

AD-IP	AD-IP .	AD-IP	AD-IP.	AD-IP	AD-IP .	AD-IP	AD-IP.
Pc. No.	Service	Pc. No.	Service	Pc. No.	Service	Pc. No.	Service
	Pc.No.		Pc.No.		Pc.No.		Pc.No.
65612	65612	109479	NA NA	800857	800857	5003294	65613
65613	65613	109480	NA NA	801124	801124	5003976	.√65612
65614	MERCE SINA	109500	65693	5000154	65612	5005268	800551
65615	NÁ.	109503	65693	5000155	65612	5005270	65612
65693	65693	131030	NA	5000156	65612	5005387	65613
65709	NA	131038	65612	5000213	65612	5005697	65612
109465	65612	131066	65612	5000214	65612	5005702	65613
109466	65613	131080	65612	5000351	800089	5006591	65612
109467	NA NA	800020	NA NA	5000794	65612	5006634	65612
109468	NA NA	800021	65612	5000985	800089	5006848	65612
109469	65612	800089	800089	5001509	800089	5006879	65612
109470	65613	800249	800249	5001740	65612	5007252	65613
109471	NA	800551	65612	5001743	65693	5007270	65612
109472	NA	800576	800576	5002660	800249	5009413	65613
109477	65612	800577	800577	5002663	800249	5009817	65612
109478	65613	800618	800618	5002900	65612		

MAINTENANCE KITS

MOUNTING BRACKET KIT 5001247			EXTENDED PURGE KIT* 5005309			
Item	Description	Qty.	Item	Description	Qty.	
1	5/16" Clamp Ring Bolt	1	33	Reservoir 3.5" x 10"	1	
2	Washer	1	34	Makeup Line	1	
3	5/16" Nut	1	35	Mounting Clamps	2	
4	Clamp Ring	1	36	1/2" Lock Washers	4	
5	Saddle Bracket	1	37	1/2" Nuts	4	
7	3/8" Cap Screw	2	38	Plate	2	
8	3/8" Washer	2	39	Straight Fitting	1	
9	Lower Mounting Bracket	1	40	90° Fitting	1	
				3/4" Pipe Plug	2	
	CARTRIDGE BOLT KIT 109498		*For ext	ended purge air dryers only.		
ltem	Description	Qty.		HEATER & THERMO	. KIT	
10	Cartridge Bolt	1		109495 (12 V.)		
12	O-Ring	1		109496 (24 V.)		
13	O-Ring	1	Item	Description	Qty.	
	•		30	Retaining Ring	1	
	DESICCANT CARTRIDGE KIT		31	Heater & Thermo Assly	1	
	65624 (Service New Cartridge	e)	32	O-Rina	1	
1	09493 (Remanufactured Cartri	dge)		_ · · · · · · y		
item	Description	Qty.	SERVICE PURGE VALVE KIT			
11	Desiccant Cartridge	1		800404		
11A	O-Ring	1	ltem	Description	Qtv.	
1 1B	O-Ring	1	14	Retaining Ring	1	
12	O-Ring	1	15	Purge Valve Assembly	1	
13	O-Ring	1	21	Quad-Ring	1	
	<u>-</u>		23	O-Ring	1	
	PURGE VALVE MAINT. KIT 5003547		24	O-Ring	1	
item	Description	Qty.		DELIVERY CHECK VI	V. KIT	
14	Retaining Ring	1		109494		
16	Shoulder Bolt	1	Item	Description	Qtv.	
17.18	Purge Valve Complete	1	25	Retaining Ring	1	
20	Purge Valve Piston	1	26	Perforated Plate	1	
21	Quad-Ring	1	27	Check Valve Spring	1	
22	Piston Return Spring	1	28	Check Valve	1	
23	O-Ring	1	29	O-Ring	1	
24	O-Ring	1		~ , lg	•	
19	Piston Guide	1				
	Purge Valve Assembly Tool	1				

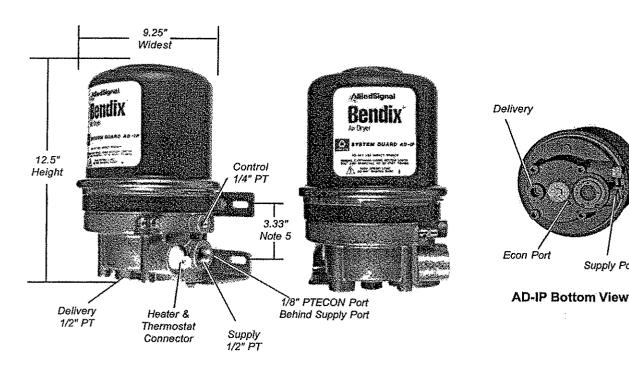
The function of the AD-IP Integral Purge Air Dryer is to collect and remove air system contaminates in solid, liquid and vapor form before they enter the brake system. It provides clean, dry air to the components of the brake system which increases the life of the system and reduces maintenance costs. Daily manual draining of the reservoirs is eliminated.

In addition to the standard AD-IP, the AD-IP DI (Drop In) is also offered. tt is a specialized version designed especially for air systems that use either the Holset (Cummins) Type E or QE air compressor. These Holset compressors utilize a unique unloading system that requires

that air pressure remain in the discharge line during the entire unloaded cycle of the compressor. To accomplish this, Holset compressors rely on air "feedback" or back pressure from the supply reservoir. When an air dyer is installed the direct "feedback" from the supply reservoir is interrupted and an alternate source for "feedback" pressure must be provided. A standard AD-IP air dryer can be installed however a separate "feedback" line with a single check must be installed. The AD-IP Drop In model incorporates the feedback line and single check as an integral part of the dryer and eliminates the need for these components.

Supply Port

Weight 28.75 lbs. **VMRS** 13-010-033 Device Code 2414



Camilaa	D	Mounting		Heater &	
Service	Reman.	Bracket	Econ	Thermo.	
Pc. No.	Pc. No.	Kit	Port	Volts-Watt	Notes
65612	109477	5001247		12v - 90w	
65613	109478	5001247		24v - 90w	
65693	109503			12v - 90w	
800089	5000985	5001247	1/8" PT	12V - 90W	
800249	5002660	***		12v - 90w	
800576	5005556	\$ 5001247 F		12v × 90w . 9	Ext Purge
800577	5005567		1/8" PT	12v - 90w	Ext. Purge
800618	5006234	5001247		24V - 90W	SEXT Purge
800857	109478	5001247		24v - 90w	Includes Silencer

Note - 12 & 24 volt air dryers are identified by connector color - White = 12v,

Gray = 24v

Note - Center to center of slots in both brackets 3.33 inches

Directional Control Valve Load Sense Pressure Compensated MP18

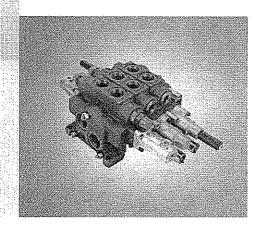
RA 64 965/01.05 1/20

Replaces: 10.96

Series 30

Nominal pressure 3625 psi (250 bar) pump side Nominal pressure 4200 psi (290 bar) actuator side Max. flow

- pump side:
 - 40 GPM (150 I/min) unloading and priority inlet element
 - 50 GPM (189 l/min) standard closed center inlet element
- actuator side:
 - 35 GPM (133 I/min) consult factory for higher flow rates



Functional Description

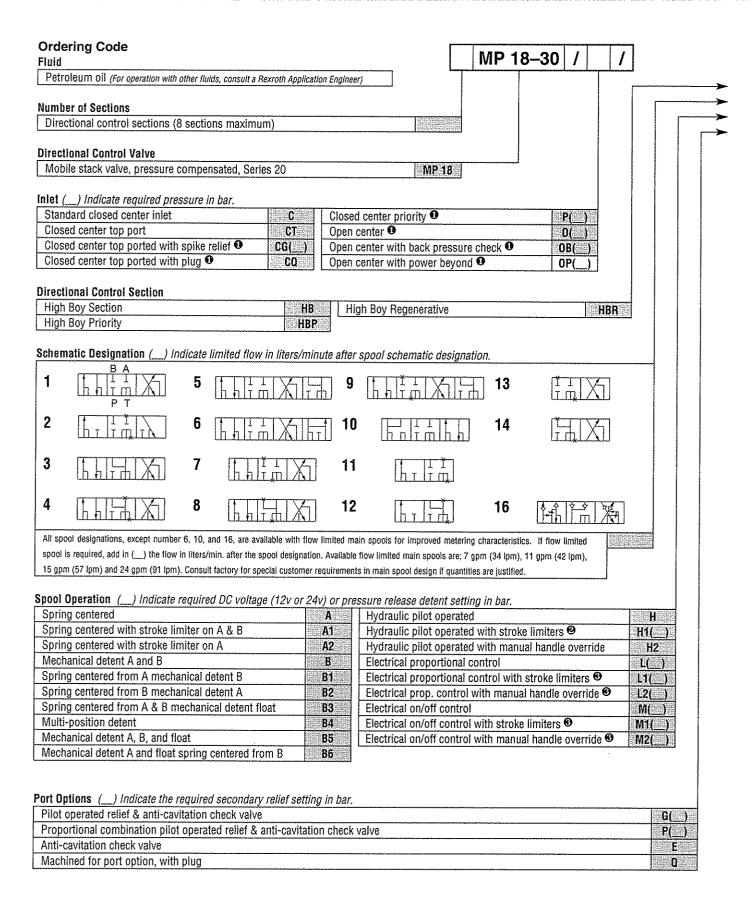
MP18, series 30 mobile stack type valves are load sensing pressure compensated valves. They control the volume, direction of oil flow and maintain a constant flow regardless of changing load pressures.

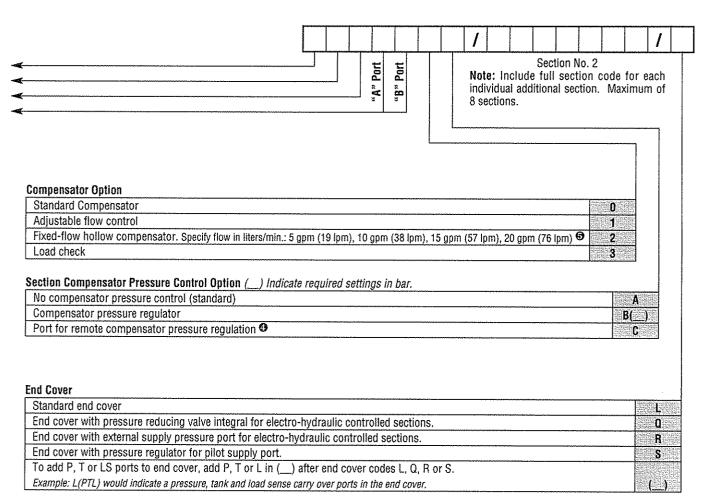
An advantage of the MP18 is that the starting point for movement of the function always remains the same, i.e., a specified control spool position always has the same metering characteristics. This is accomplished by a compensating spool in each section.

While the main spool is in neutral, the primary shuttle and secondary shuttle are vented to tank. When the main spool is operated, the load pressure is directed via the primary shuttle to the spring end of the pressure compensator spool. The section compensator now moves to the open position. Dependent on the pressure drop between the section compensator and the control spool opening, a specific volume now flows to the function. The load signal also simultaneously communicates to the secondary shuttle and on to the system compensating device. The system compensating device can be either an inlet compensator (open center unloading inlet) in the case of a fixed pump system or a pump compensator control in the case of a variable pump system.

Features

- Parallel and series parallel type valve with wide range of section circuitry including 3-way, 4-way, float, motor control, 3 position and priority. Available with both flow and pressure control spools.
- May be combined with MP18 series 10 sections to provide series parallel circuitry.
- Section compensator allows each section to operate at a predetermined flow rate independent of pump discharge flow and pressure.
- Low spool operating forces possible by elimination of series by-pass circuits through the valve. This lends itself to remote operation of valve spools.
- Variety of main spool operators including manual, hydraulic, electro-hydraulic (proportional or on-off control), and mechanical detents. Electro-hydraulic and hydraulic remote also available with manual handle override.
- Section with pressure regulator or remote regulator port allows each section to operate at a predetermined maximum pressure level independent of pump discharge pressure.
- Low neutral pressure drop with open center inlet section, pressure drop remains constant regardless of number of sections. Pump discharge flow is directed back to the reservoir at low pressure through the unloading valve located within inlet section.
- Primary relief in open center unloading inlet section and priority port relief in priority inlet section which provides accurate pressure control over a wide flow range





- Please consult factory when ordering.
- 4 H1(_) designate which ports are to be stroke limited (A, B, or A & B).
- All electrical main spool operation codes (L, L1, L2, M, M1, M2) must be sold as complete valve assemblies. Codes L1 or M1 designate stroke limiter. Specify which ports are to be stroke limited (A, B, or A & B). All electrical sections must be assembled in line from end cover Q or R.
- Ompensator pressure options (B, or C) not available in all section assemblies.

 Not available when spool operation codes B–B6 or when used in conjunction with secondary work port options.

 Port for remote compensator pressure regulation not available in electrical solenoid operated sections.
- 6 Not available in HBP sections.

Technical Data

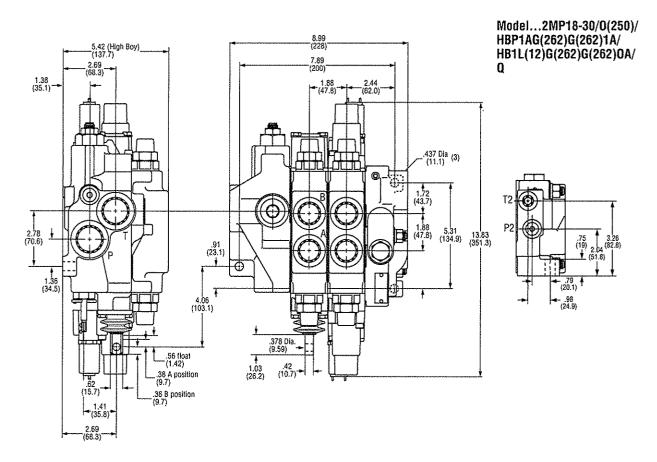
MP18 Specifications

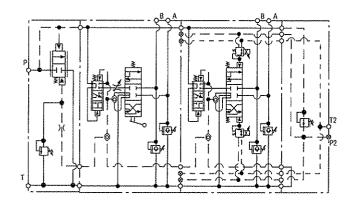
Flow range		GPM (L/min)	35 (133) NoteConsult factory for higher flow rates
Primary operating pressure	Port T	PSI (bar)	290 (20)*
	Port P	PSI (bar)	3625 (250)*
Secondary relief valve setting	Port A, B	PSI (bar)	4200 (290)*
Hydraulic fluid			Petroleum oils (HM, HL, HLP)
Fluid temperature range		° F (° C)	$t_{min} = -4^{\circ} F(-20)$ $t_{max} = 158^{\circ} F(70)$
Viscosity range		SSU (mm²/s)	35-1760 (10-380) (dependent upon fluid)
Cleanliness level			18/15 according to ISO 4406

^{*}For applications outside these parameters, please consult Rexroth

Installation Dimensions

4/20





Regen and Top Ported Closed Center Inlets with Standard End Cover Overall Length Bolt Hole Centers Number of Directional Inches millimeters inches millimeters Control Spools 6.60 167.6 5.79 147.0 2 8.48 215.3 7.67 194.7 10.36 263.0 9.55 242.5 3 12.24 310.77 11.43 290.2 4 14.11 358.5 5 13.30 337.9 15.99 6 406.2 15.18 385.7 7 17.87 454.0 17.06 433.4 18.94 8 19.75 501.7 481.1

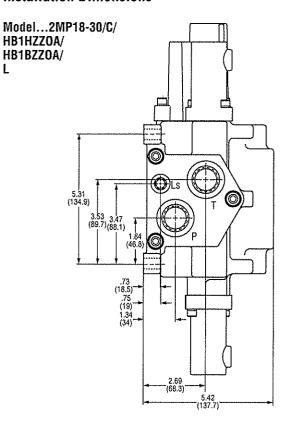
Closed	Center	Inlet with	Standard	End Cover
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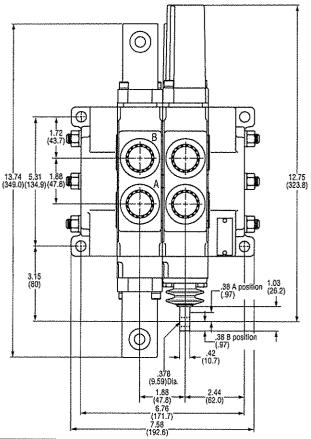
Number of	Overa	ll Length	Bolt Hole Centers B		
Directional		A			
Control Speals	inches	millimeters	inches	millimeters	
1	5.70	144.8	4.88	124.0	
2	7.58	192.6	6.76	171.7	
3	9.46	240.3	8.64	219,5	
4	11.34	288.0	10.52	267.2	
5	13.22	335.7	12.40	314.9	
6	15.10	383.5	14.28	362.6	
7	16.98	431.2	16.16	410.4	
8	18.86	478.9	18.04	458.0	

Priority and all Onen Center Inlets with Standard End Cover

Finding and an Open Center inters with Standard End Cover					
Number of	. Overa	II Length	Bolt Hole Centers B		
Directional		A			
Control Spools	inches	millimeters	inches	millimeters	
1	6.86	174.3	6.01	152.6	
2	8.74	222.0	7,89	200.3	
3	10.62	269.8	9.77	248.0	
4	12.50	317.5	11.64	295.8	
5	14.38	335.7	13.52	343.5	
6	16.26	412.9	15.40	391.2	
7	18.14	460.7	17.28	438.9	
8	20.02	508.4	19.16	486.7	

Installation Dimensions





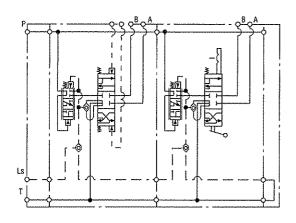
Standard Port Sizes (SAE)

Inlet	PInlet	TTank	PB	PR	LS	PRLS
C	#12	#12			#6	
C	#16	#16			#6	
CG	#16	#16		,	#6	
CQ	#16	#16	5.4.888.00 (100)		#6	100
Р	#16	#16		#12, 8, 6	#6	#6
0	#16	#16				
OB	#16		#12			
OP	#16	#16	#12			

Work Section		B Work Port	
НВ	#12	#12	
HBP	#12	#12	
HBR	#12	#12	

End	AND STATE		LSLoad	P2Pilot	T2Pilot	
Covers	PInlet	TTank	Sense	Supply	Drain	
L(PTL)	#12	#12	#4			
L(PTL)	#16	#16	#6		33.00	4 (S) (S) (S)
Q(PTL)	#16	#16	#6		#4	
R(PTL)	#16	#16	#6	#4	#4	
S(PTL)	#16	#16	#6	#4	#4	
Hydraulic	Housing #4	4 or #6		(3.35) (3.55)	01 (86 Liberio) (

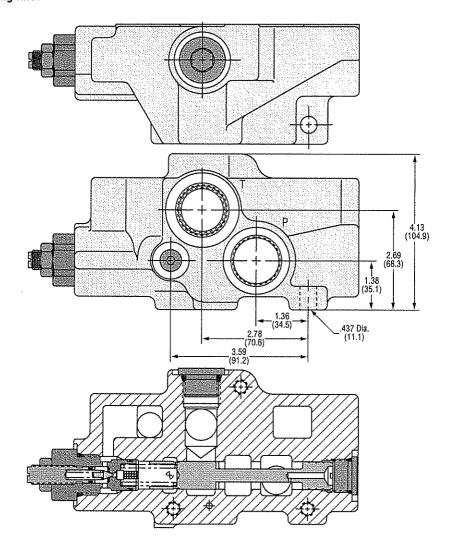
Note: If stack valve assembly has one of the optional end covers (Q, R, or S) the overall length is .250 inches (6.35 mm) longer than the matching valve assembly with standard end cover. Bolt hole mounting dimensions do not change.

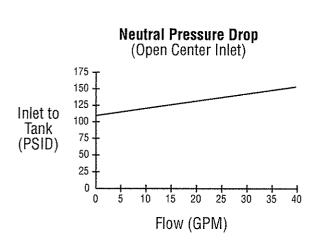


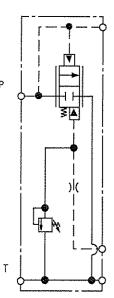
Inlets

Open Center Unloading Inlet

Code...O



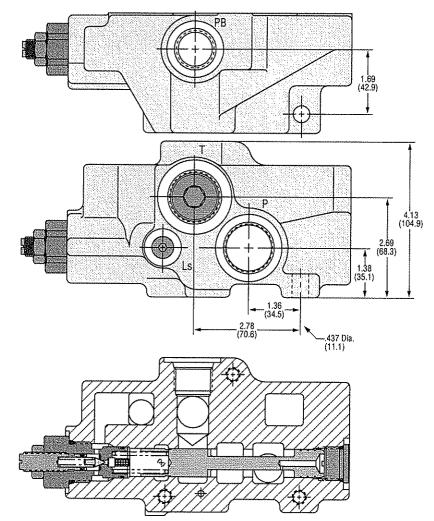


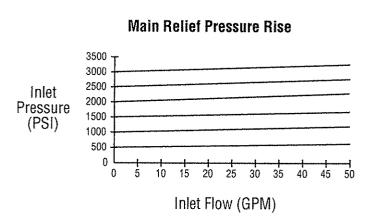


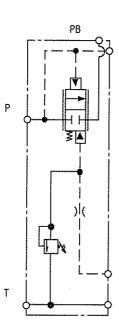
Inlets

Open Center Unloading Inlet with Power Beyond

Code...OP



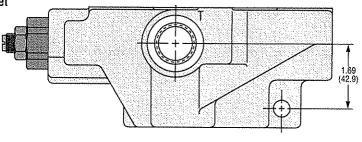


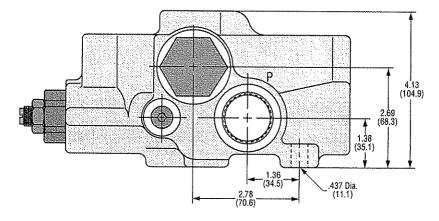


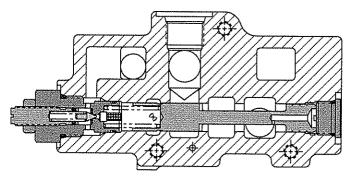
Inlets

Open Center Unloading Inlet with Back Pressure Check

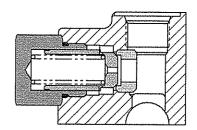
Code...OB

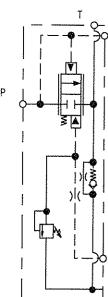






Back Pressure Check

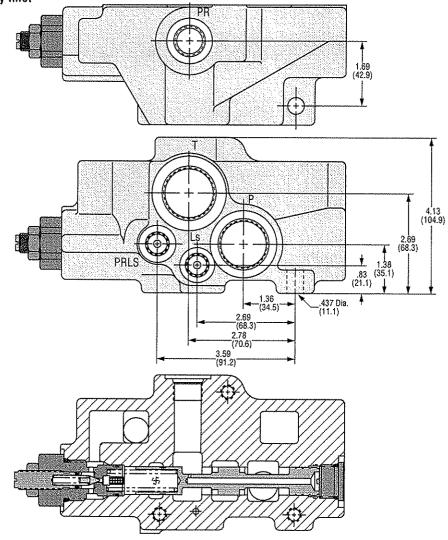




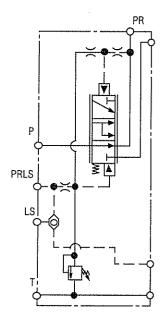
Inlet

Closed Center Priority Inlet

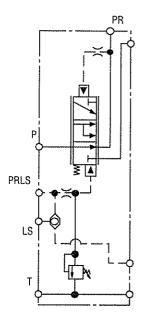
Code...P



Dynamic Bleed



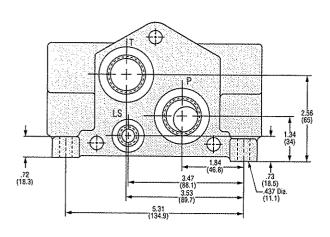
Standard Priority



Inlet Options

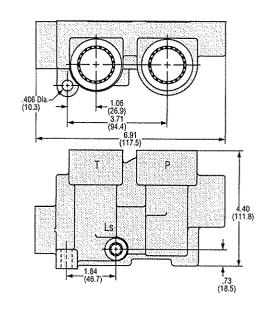
Standard Closed Center Inlet

Code...C



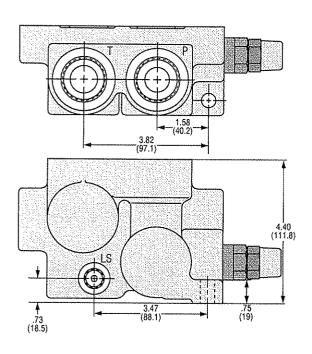
Closed Center Top Ported Inlet

Code...CT



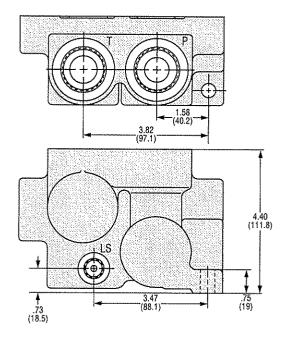
Closed Center Inlet with Spike Relief

Code...CG(__)



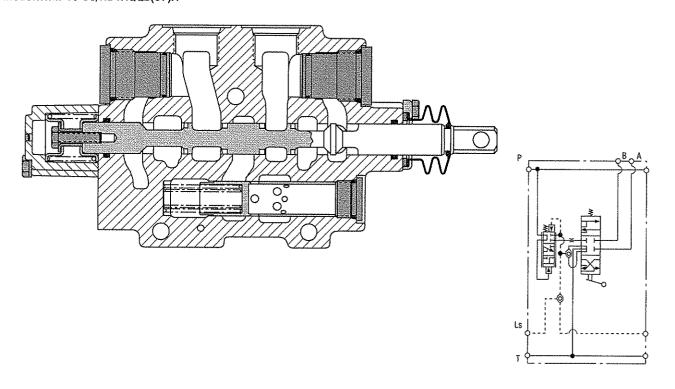
Closed Center Top Ported Inlet

Code...CQ

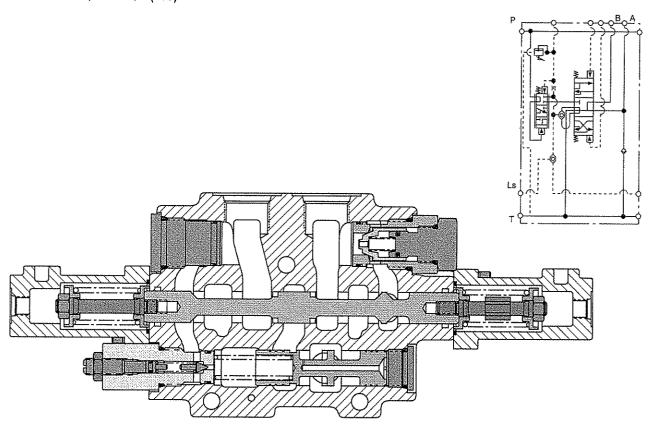


Sectional View

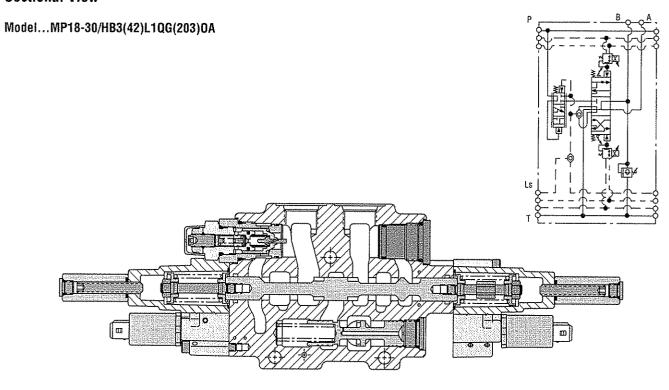
Model...MP18-30/HB1AQQ2(57)A



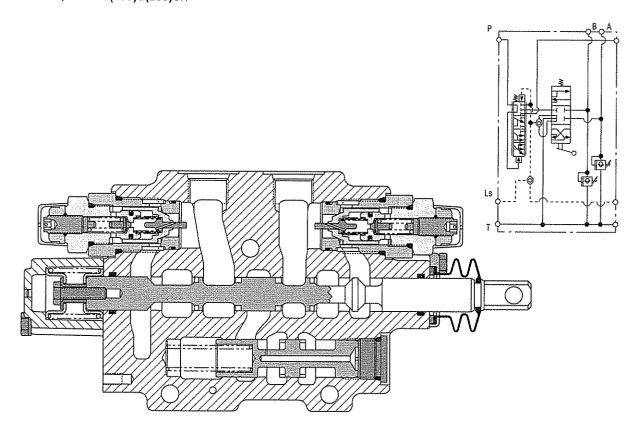
Model...MP18-30/HB3HEQ0B(103)



Sectional View

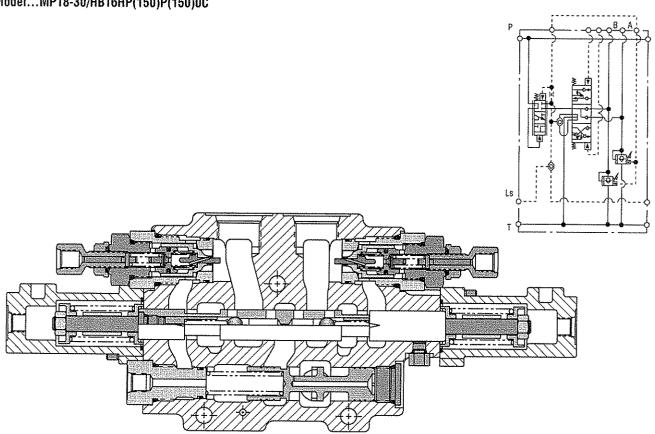


Model...MP18-30/HBP1AG(250)G(250)OA

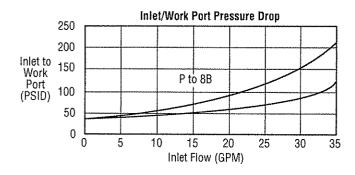


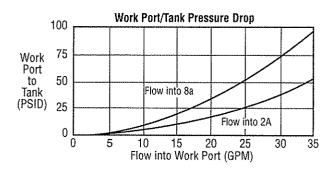
Sectional View

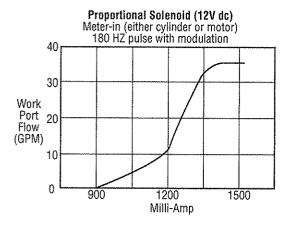
Model...MP18-30/HB16HP(150)P(150)0C

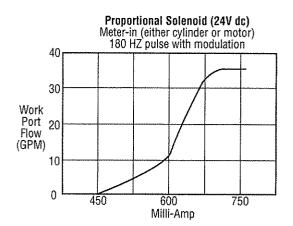


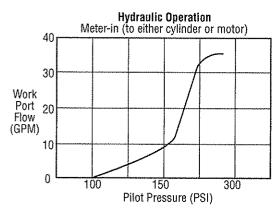
Operating Curves

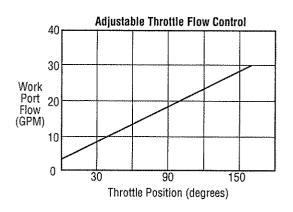


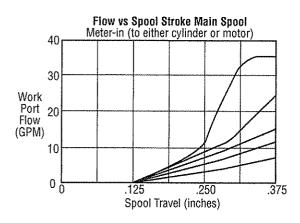


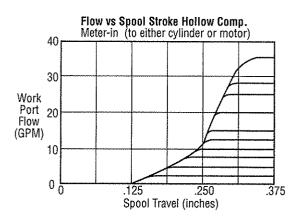












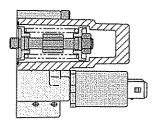
Spool Operation

Electrical Proportional and On/Off Control

Main Spool Operator Codes...L(12), L(24), M(12), M(24).

3 Position Assembly

Internal assembly typical. Housings are not interchangeable. They must be assembled to their proper ends of the sections. Assembly for "A" port end of section

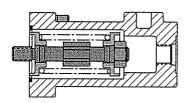


Hydraulic Operated Proportional Control

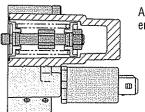
Main Spool Operator Code...H

3 Position Assembly

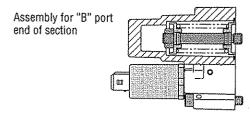
Housings are interchangeable from "A" to "B" end of section. Assembly for "A" port end of section.



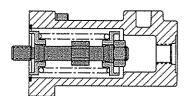
4 Position Assembly



Assembly for "A" port end of section

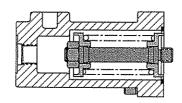


4 Position Assembly

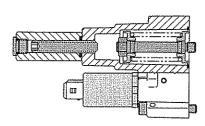


Assembly for "A" port end of section

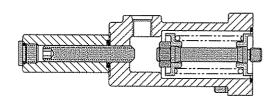
Assembly for "B" port end of section



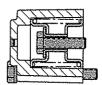
Electrical Proportional and On/Off Control with Stoke Limiter Main Spool Operator Codes...L1(12), L1(24), M1(12), M1(24).



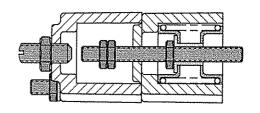
Hydraulic Proportional with Stoke Limiter Main Spool Operator Code...H1



Manual Spring Centered Main Spool Operator Code...A

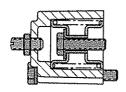


Manual Spring Centered with Stroke Limiter Main Spool Operator Code...A1



Manual Spring Centered with Stroke Limiter

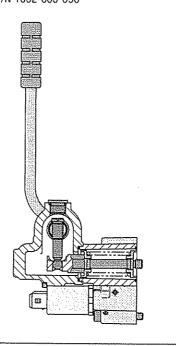
Main Spool Operator Code...A2



Spool Operation

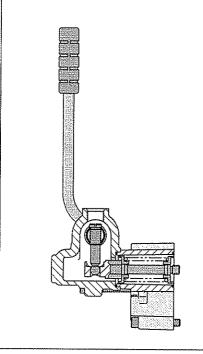
Electrical Proportional and On/Off Control with Manual Override

Main Spool Operator
Codes...L2(12), L2(24), M2(12), M2(24)
"B" port assembly
Kit P/N 1602-635-096

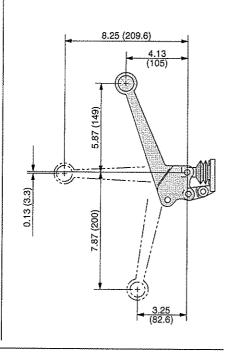


Hydraulic Control with Manual Override Main Spool Operator Code H2

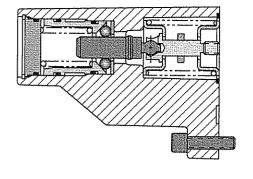
Main Spool Operator Code...H2
"B" port assembly
Kit P/N 1602-635-097



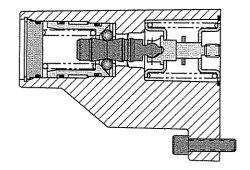
Lever and Dust Boot Assembly Kit P/N 1601-635-040



3 Position Detent Assembly Code...B3

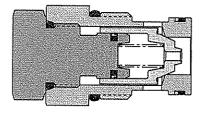


4 Position Detent Assembly Code...85

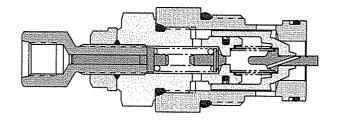


Port Options

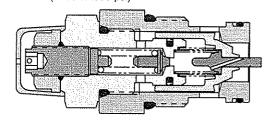
Code...E 1601-566-021



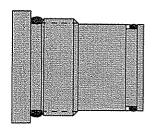
Code...P(___) 1695-430-001



Code...G(__) 1697-430-002 (300...1400 psi) 1697-430-001 (1450...4500 psi)

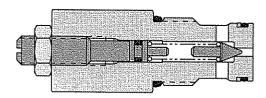


Code...Q 19-76202-019

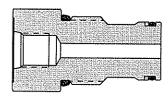


Pressure Compensator Control Options

Code...B(__) 1602-566-026

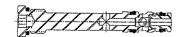


Code...C 1602-566-045



Shuttles

Double Acting Primary Shuttle 1604-566-002



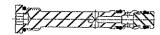
Orificed Primary Shuttle 1604-566-004



Single Acting "A" Only Shuttle 1604-566-009

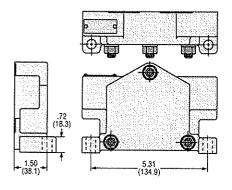


Single Acting "B" Only Shuttle 1604-566-006

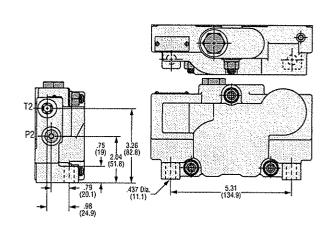


End Covers

Code...L Standard End Cover

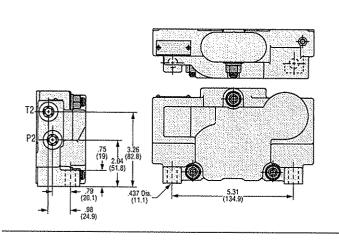


Code... QEnd cover with pressure reducing valve integral for Electro-Hydraulic controlled sections. (Includes drain port T2)



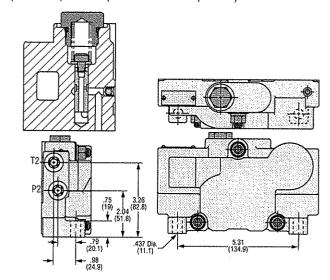
Code...R

End cover w/ external supply pressure port for Electro-Hydraulic controlled sections. (Includes pressure port P2 and drain port T2)

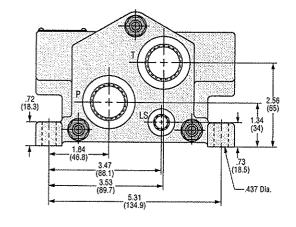


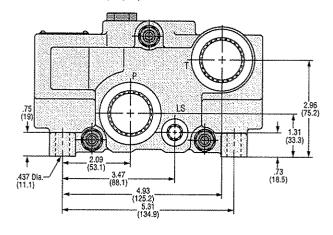
Code...S

End cover w/ pressure reducing valve integral for pilot controller supply. Not to be used with Electro-Hydraulic sections. (Includes pressure port P2 and drain port T2)



To Add Ports P, T, or LS to End Covers, Add Catalog Code (PTL) to End Cover Codes...L, Q, R, or S.





Kit Numbers

Closed Center Tie Bolt Kits

Including shims, o-rings, tie-bolts,	nuts, and flat washers.
1602-635-023	1 section
1602-635-020	2 section
1602-635-021	3 section
1602-635-022	4 section
1602-635-033	5 section
1602-635-034	6 section
1602-635-035	7 section
1602-635-036	8 section

Open Center Tie Bolt Kits

Including shims, o-rings, tie-	bolts, nuts, and flat washers.
1602-635-037	1 section
1602-635-038	2 section
1602-635-039	3 section
1602-635-040	4 section
1602-635-041	5 section
1602-635-042	6 section
1602-635-043	7 section
1602-635-044	8 section

Service Kits

1602-635-031	Face seal kit (seal between sections including shims)
1602-635-061	Seal kit electrical section pilot face seals
1602-635-086	Seal kit electrical section pilot face seals
1602-635-078	Priority inlet seal kit
1602-635-001	Dust boot kit
1601-635-040	MP18 & 22 handle & dust boot kit
1604-566-002	Standard primary shuttle double acting
1604-566-004	Orificed primary shuttle double acting
1604-566-006	Single acting shuttle "B"
1604-566-008	Single acting orificed shuttle "B"
1604-566-009	Single acting shuttle "A"
1604-566-011	Single acting orificed shuttle "A"
1602-566-022	Relief cartridge unloading and priority inlet
1604-635-001	Secondary shuttle kit, with ball
1697-430-002	Combination pilot relief/anti-cavitation port option (300-1400 psi)
1697-430-001	Combination pilot relief/anti-cavitation port option (1450-3625 psi)
1601-566-021	Anti-cavitation check valve
19-76202-019	Port option plug
1697-635-001	Seal kit port option
1602-635-094	Open center inlet back pressure check kit
1602-635-116	Mating Solenoid connedtor Kit - Cannon Connector "C2"
1602-635-117	Mating Solenoid connector Kit - Junior Rimer (AMP) "C4"

Operation Mechanical Detent Kits

abaration mountings metcut	
1602-635-071	"B":detent kit
1602-635-072	"B1" detent kit
1602-635-073	"B2" detent kit
1602-635-074	"B3" detent kit
1602-635-075	"B4" detent kit
1602-635-068	"A" standard spring centered kit
1602-635-096	Manual override kit-option "L2" & "M2" without solenoid
1602-635-097	Manual override kit-option "H2"
***************************************	The state of the s

Bosch Rexroth Corporation Mobile Hydraulics Mobile Controls, Electronics, and External Gear Units 1700 Old Mansfield Road Wooster, OH 44691-0394 Telephone (330) 263-3300 Facsimile (330) 263-3300 www.boschrexroth-us.com © 2005 Bosch Rexroth Corporation

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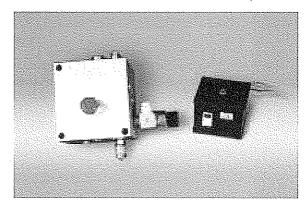
Subject to change.

Component Technology is a pioneer in snow and ice removal. We definitely have the experience to do the job. From the operator to the fleet manager we understand what you need. That's why the entire StormGuard product line, top to bottom, is the best available when you compare safety, reliability, durability, and ease of maintenance. Our engineering staff consistently proves that it is the most innovative in the industry. This makes us the best at bringing your ideas to reality. We can help you design systems and controls that will do your job right and do it well. We are here to serve you and believe that our total commitment to your success is the key to our mutual success.

Additional Features of PlowGuard:

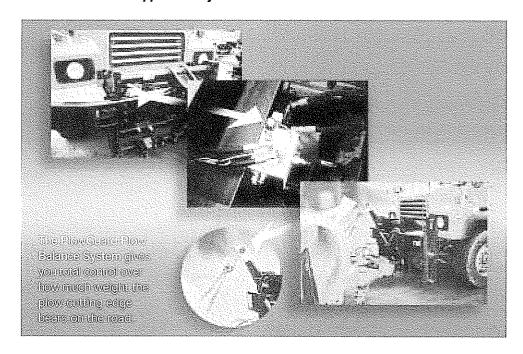
- · Reduced damage to asphalt shoulders
- Consumes less than 1/100 HP when in operation

PlowGuard Plow Balance Valve System



The PlowGuard Plow Balance System works with gear pump and load sense pump hydraulic systems, to control the amount of weight the plow cutting edge bears on the road surface.

Retrofit installation - approximately 2.5 hrs.



Give us a call and find out where you can get into a demo truck, stop by our booth at one of the many trade shows or contact your local dealer and see first hand the StormGuard advantages of the PlowGuard Plow Balance System.

Starting A Revolution!

NBC 7/03 25K

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Component Technology

Certified Power Inc

phone: 847-573-3818 fax: 847-573-3836

www.certifiedpower.com



MATHENY MOTOR TRUCK CO. P.O. BOX 1304 PARKERSBURG, WV 26102-1304 Component Tedmology

Collinal Royaldina

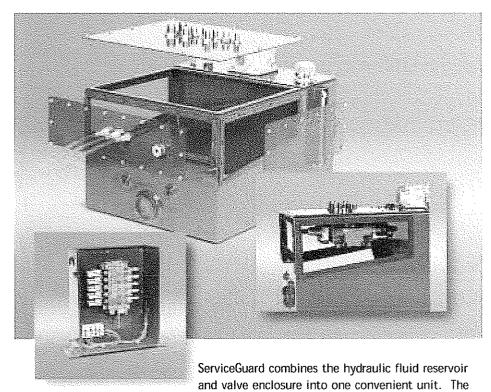
ServiceGuard/ValveGuard Reservoirs and Enclosures

SERVICEGUARD: DESIGNED FOR MAXIMUM DEPENDABILITY WITH THE FOLLOWING FEATURES:

- FORM FITTED GASKETS FOR ALL PANELS
- SLOPED BOTTOM WITH LARGE DRAIN GREATLY REDUCES RUST DAMAGE
- TOP PLATE MOUNTING ELIMINATES UNNECESSARY PLUMBING AND POSSIBLE FAILURE POINTS
- TANK MOUNTED FILTER WITH CARTRIDGE IS EASIER AND LESS EXPENSIVE TO REPLACE THAN CAN-TYPE FILTER
- 3" PORT ALLOWS FOR EASY USE OF SUCTION DRAINER
- MAGNETIZED PLUG TO ATTRACT METAL PARTICLES FLOATING IN FLUID

VALVEGUARD GIVE YOU THE FOLLOWING FEATURES:

- FORM FITTED GASKET AND 6
 STAINLESS STEEL LATCHES
 WELDED IN PLACE
- MOUNTS DIRECTLY THROUGH
 STEEL PLATE PANEL TO
 ELIMINATE INTERNAL PLUMBING



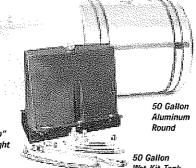
new bulkhead design does not require internal tubing and hoses, thereby eliminating several potential leak and service points.

It can be used with practically any valve: manual, electric, hydraulic, or air-controlled. Frame mounted units are subjected to incredible abuse from the truck's rear wheels constantly throwing off corrosive materials: ice, snow, dirt, and road salt. It is essential that the hydraulic fluid and valve assembly be protected from these hazards and that is precisely what ServiceGuard does.

The ServiceGuard unit is constructed of heavy seven gauge steel plating. In addition, ValveGuard and ServiceGuard are also available in stainless steel construction. The valve enclosure is kept weather tight by steel plates bolted over form fitted gaskets. Its design greatly reduces downtime and labor costs during service -- once a

four-hour job is now reduced to a fraction of that.

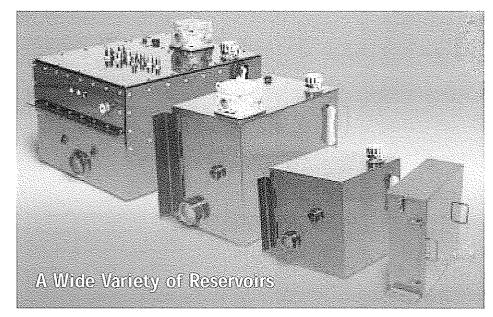
50 Gallon "Behind the cab" Aluminum Upright



Component Technology is a pioneer in snow and ice removal. We definitely have the experience to do the job. From the operator to the fleet manager we understand what you need. That's why the entire StormGuard product line, top to bottom, is the best available when you compare safety, reliability, durability, and ease of maintenance. Our engineering staff consistently proves that it is the most innovative in the industry. This makes us the best at bringing your ideas to reality. We can help you design systems and controls that will do your job right and do it well. We are here to serve you and believe that our total commitment to your success is the key to our mutual success.

Additional Features of ServiceGuard and ValveGuard:

- · Works with any type of valve
- Fewer potential failure points for less down time
- Easier accessibility and servicing for lower labor costs
- · Designed for a longer trouble-free life
- · A superior weather tight seal
- ServiceGuard comes ported to save time, money, and problems



We have designed and built a wide variety of shapes and sizes of reservoirs to fit all the standard applications. However, if you have a unique need, custom reservoirs are not a problem. Steel, stainless, and poly reservoirs are available, all designed for easy mounting and built for a long life. All are pressure tested and delivered in primer allowing the installer to paint with the color of his choice. In addition our reservoirs are available with a powder coated finish, eliminating the need for finish coat painting if desired. We offer a large selection of accessories, which are available individually or as part of a complete system package.

PART NUMBER	DESCRIPTION	L	W	H
CP-RES7S	7 Gal. Side Frame Steel	12"	12"	12"
CP-RES10S	10 Gal. Side Frame Steel	12"	15"	15"
CP-RES15S	15 Gal. Side Frame Steel	16"	15"	16"
CP-RES20S	20 Gal. Side Frame Steel	18"	15"	18"
CP-RES20S-LS	20 Gal. Side Frame Load Sense Steel	18"	15"	18"
CP-RES25S	25 Gal. Side Frame Steel	20"	15"	20"
CP-RES30S	30 Gal. Side Frame Steel	24"	15"	20"
CP-RES30S-LS	30 Gal. Side Frame Load Sense Steel	24"	15"	20"
CP-RES40S	40 Gal. Side Frame Steel	24"	20"	20"
CP-RES40S-LS	40 Gal. Side Frame Load Sense Steel	24"	20"	20"
CP-RES50S	50 Gal. Side Frame	24"	20"	24"
CP-RES50S-FS-LS	50 Gal. Side Frame Load Sense Steel	24"	20"	24"
CP-RES50P-U	50 Gal. Upright Poly	Call for print		
CP-RES50S-U	50 Gal. Upright Steel	36"	14"	34"
CP-RES30S-VMSG	30 Gal. ServiceGuard Steel	24"	30"	18"
CP-RES50S-VMSG	50 Gal. ServiceGuard Steel	24"	30"	23"

Give us a call and find out where you can get into a demo truck, stop by our booth at one of the many trade shows or contact your local dealer and see first hand the StormGuard advantages of ServiceGuard and ValveGuard.

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Component Technology

C certified Power Inc.

phone: 847-573-3818 fax: 847-573-3836

Viking Proline Series Combination Spreaders



FEATURES:

MATHENY MOTOR TRUCK CO. P.O. BOX 1304 PARKERSBURG, WV 26102-1304

- 1. All operations controlled from in-cab.
- 2. Radius design allows for free flow of material to conveyor.
- 3. Automatic chain tensioning system
- 4. No hinges, lock pins or moving body parts in sanding mode. Body down during spread operations.
- 5. Telescopic hoist for dump mode eliminated sub-frame for lower center of gravity.
- 6. Body available in 10', 11', 13', and 14' lengths.
- 7. Light weight of body increases payload.
- 8. Square tailgate is double acting.
- 9. Main conveyor chain covered except for cross slats. This allows discharge of sand, gravel or cold patch.
- 10. Fast accurate discharge gate setting with screw adjustment outside body.
- 11. Positive close and release of tailgate by means of two airbrake maxi chambers with in-cab control.
- 12. 25:1 planetary gear box gives up to 50,000 in/lbs of torque to start spreading any load.
- 13. 50 degrees of dump angle assures complete discharge of load while round shape eliminates corners which make material stick. Depending on over hang.



Proline Series Combination Spreaders



AVAILABLE OPTIONS:

- Front Discharge with Cross Conveyor
- Rear Discharge
- **Bi-Directional Discharg**
- **304 Stainless Steel Construction**
- **AR400** Construction
- Side Boards
- Bar Flites Every Link
- **Poly Liquid Tanks**

- **Ground Speed Control**
- Top Screens
- Twin Spinner Available
- **Poly Liner**
- Cab Shield 24"
- Air Tarp
- Hi-Temp Rubber Belt over Conveyor Chain

Other options available consult your local dealer.

NOTE: Changes in design may occur thru product development.

MODEL	1011LW	1112LW	1314LW	1415LW
Inside Length	103	11'	13'	14'
CA / CT required with 3" between cab & body	84"	96"	112"	120"
Water Level Capacity	6.0 cu. Yd.	6.6 cu. Yd.	9.9 cu. Yd.	10.7 cu. Yd.
10" Boards	8.1 cu. Yd.	9 cu. Yd.	12.7 cu. Yd.	13.8 cu. Yd.
Side Thickness	3/16	3/16	3/16	3/16
Side Material	Corten	Corten	Corten	Corten
Side Height	38"	38"	45"	45"
Tailgate 3/16. Corten	46"	46"	53"	53"
Front Panel Height	53"	53"	60°°	60"
Double Acting Tailgate	Yes	Yes	Yes	Yes
Hoist	Top Lift - 20T	Top Lift - 20T	Top Lift - 30T	Top Lift - 30T
	Telescopic	Telescopic	Telescopic	Telescopic
	3 Stage	3 Stage	3 Stage	3 Stage
	NTEA 40	NTEA 40	NTEA 60	NTEA 70
Conveyor Width	23"	23"	23"	23"
Conveyor Floor / A R Steel	1/4"	1/4"	1/4"	1/4"
Drive and Idler Shaft	2"	2"	2"	2"
Chain 667X	STD	STD	STD	STD
Cross Flites Every Other Link	STD	STD	STD	STD
Planetary Gear Reduction	25:1	25:1	25:1	25:1
Air Tailgate	STD	STD	STD	STD
Poly Spinner	STD	STD	STD	STD
Poly Return Cover	STD	STD	STD	STD
Conveyor Cover	STD	STD	STD	STD
Fenders	Integral	Integral	Integral	Integral
Ladder - Right Rear	STD	STD	STD	STD
Automatic Chain Tensioning System	STD	STD	STD	STD
Body Weight Installed	4,250	4,450	5,600	5,800



Chain Tensioning Unit



DEALER:

Viking-Cives (USA) 14331 Mill Street Harrisville, NY 13648 (315) 543-2321 Fax (315) 543-2366

Viking-Cives, Ltd. P.O. Box 1120, RR#4 Mt. Forest, ONT N0G2L0 (519) 323-4433 Fax (519) 323-4608

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