

SALES

INSTALLATION

DESIGN



MUNCIE INDEPENDENT
PTO's & HYDRAULICS
MASTER WAREHOUSE



Visit us on the web at: www.ptohydraulics.com
or phone Toll Free: **800-577-2899**

5585 NE 16th Street • Des Moines, IA 50313 • In Iowa: 515-262-2858 • Fax: 515-262-3095

PTO'S / HYDRAULICS

DUMP BODY TRAILER SYSTEM

System Includes:

- TG Series Direct Mount Air Shift PTO
- 50 Gallon Poly Upright Reservoir
- Muncie E Series Air Shift Dump Pump
- Muncie Console



CONVEYOR/WALKING FLOOR TRAILER SYSTEM

System Includes:

- TG Series Direct Mount Air Shift PTO
- 50 Gallon Aluminum Upright Mount Reservoir
- Muncie PL Series Pump with Relief

Options:

- V60 Series Valve
- Filter
- Console



LIQUID TRANSPORT TRAILER SYSTEM

System Includes:

- TG Series Direct Mount Air Shift PTO
- Hydraulic Oil Cooler
- Muncie K Series Hydraulic Pump
- CharLynn Hydraulic Motor
- Brand Flow Control Valve





EQUIPMENT TRAILER SYSTEM

System Includes:

- TG Series Direct Mount Air Shift PTO
- 15 Steel Side Mount Reservoir
- Relief Valve
- Return Line Filter
- K Series Hydraulic Pump

MUNCIE COMBO KIT FOR WALKING FLOOR TRAILER AND END DUMP TRAILER



System Includes:

- TG Series Direct Mount Air Shift PTO
- Muncie PL Series Pump with Relief
- Steel Upright Reservoir with Drop In Filter and Dual Setting Relief Valve
- Dual Relief Setting Console

BULK FEED TRAILER SYSTEM



System Includes:

- TG Series Direct Mount Air Shift PTO
- Muncie Tandem Pump
- 55 Gallon Steel Side Mount Reservoir
- Relief Valves (2)
- Return Line Filter

Options:

- Hydraulic Oil Cooler (Delete Reservoir)





Clutch Shift PTO's provide the ability to engage and disengage the PTO without disengaging the vehicle's clutch.

FR SERIES

The FR63 (2 wheel drive) and the FR64

(4 wheel drive) mount on the driver's side and offer a variety of direct mounted hydraulic pumps. Shipped complete with in-dash activation controls and a complete wiring harness.



CS6 & CS8 SERIES

The CS6 & CS8 Series PTO's are built for SAE standard 6 and 8 bolt openings. A wide variety of gears allow for use on manual transmissions as well as Allison's family of AT& MT series automatics.



CS10 & CS11 SERIES

The CS10 and CS11 are big brothers to the CS20 and CS21 models. They incorporate larger components for higher power capabilities.



CS20 & CS21 SERIES

The CS20 is designed as a compact PTO for the Allison World Transmissions with an integral hydraulic solenoid actuator valve.

Also available is the CS41, the highest rated Clutch Shift PTO available.

Designed for maximum output from the Allison World Transmissions.



CD10/CD40 SERIES

The CD10 PTO provides full time power to the rear of the transmission just as crankshaft drives to the front of the vehicle. The CD40 is a high torque rated design for applications requiring the maximum load available from the Allison transmission.



CS41 & CD40 SERIES

Designed for intermittent torque applications up to 600 ft-lbs.



PTO TYPE	PTO SERIES	MAX TORQUE	INTERNAL RATIOS	OUTPUT OPTIONS	SHIFT OPTIONS
Clutch Shift- Single Rotation	FR	190 lb.ft.	1	4	2
	GA	158 lb.ft.	1	1	1
	GM	158 lb.ft.	1	1	1
	CS6 & CS8	350 lb.ft.	7	12	6
	CS20 & CS21	325 lb.ft.	5	12	2
	CS10 & CS11	500 lb.ft.	5	6	2
	CS41	600 lb.ft.	3	6	2
Constant Drive	CD10	400 lb.ft.	5	12	N/A
	CD40	500 lb.ft.	2	6	N/A

MUNCEI

Since Muncie began manufacturing PTO's in 1983, no other manufacturer maintains a higher standard in both customer service and inventory.



PTO SHAFT EXTENSIONS

PTO Shaft Extensions are available for the CD10 and CS20 Series PTO's. They move the hydraulic pump mounting points to the rear of the transmission where space is more readily available.



TG SERIES SHIFTING CHOICES



E-HYDRA SHIFT

AIR SHIFT



LEVER SHIFT



LECTRA SHIFT



CABLE SHIFT



82 SERIES 8-BOLT

The 82 Series is a true 8-bolt design taking advantage of the power capabilities of heavy-duty transmissions. The extra-wide gears and large output shaft options are perfect for severe mobile power applications.



83 SERIES

The 83 Series is a full capacity 8-bolt PTO designed for heavy-duty reversible applications found in the oil fields, refueling pumps and large cranes. One speed forward and reverse.



TG SERIES POWERFLEX™

The TG Series is the heart of the Muncie PTO product family. It's flexibility permits a wide variety of PTO/transmission applications, and wide gear design permits torque capacity for most truck equipment applications.



SH SERIES

The SH Series is designed to fill the gap between the TG Series and the 82 Series. Features include: wide gears, high strength ductile iron housing, patented internal air actuation design.



PTO TYPE	PTO SERIES	MAX TORQUE	INTERNAL RATIOS	OUTPUT OPTIONS	SHIFT OPTIONS
<i>Manual Shift-Single Rotation</i>	SG	130 lb.ft.	1	1	2
	TG	280 lb.ft.	10	20	21
	SG	400 lb.ft.	5	10	4
	82	500 lb.ft.	8	9	5
<i>Manual Shift-Reversible</i>	RG	140 lb.ft.	1	1	3
	RL	200 lb.ft.	2	1	3
	83	500 lb.ft.	3	1	1

POWER TAKE-OFFS



SSH2 SPLIT SHAFT PTO

The SSH2 is oriented in a horizontal configuration to allow up to four PTO outputs. Configured for driveshaft or hydraulic pump mounts. Through shaft rated for most medium or heavy-duty chassis.



SSV SPLIT SHAFT PTO

The SSV is designed for the highest level of power requirements. Mounts in the main driveline of most medium to heavy-duty chassis and has two output locations vertical of the main driveshaft. Output speed options of 126% or 156% of input to the gearbox. Very large ground gears for low noise level and very high power capabilities.



SG SERIES

The SG Series is a single gear PTO that uses lightweight aluminum in a compact housing to provide power in a small package for easy installation.



GEAR ADAPTERS

A wide selection is available to clear mounting obstacles or to reverse the PTO output rotation.



SS66 SPLIT SHAFT PTO

The SS66 is designed to provide up to two 6-bolt PTO mounting points for light to medium duty vehicles without transmission PTO opening or additional openings for vehicles with only one opening. Mounts in the main driveline behind the transmission or behind any driveline output.



We suggest you contact us to determine limitations with some transmissions.

RS4S SERIES COUNTER SHAFT PTO

Rear mounted PTOs offer customers a convenient alternative to the side mount openings often allowing for multiple PTO installations or clearance to chassis components. These PTOs are available with options for output shaft types and speeds.



REVERSIBLE PTO'S

The RG & RL Series of reversible 6-bolt PTO's were designed for mechanical winches and reversible product pumps. One speed forward and one speed in reverse.



PTO TYPE	PTO SERIES	MAX TORQUE	INTERNAL RATIOS	OUTPUT OPTIONS	SHIFT OPTIONS
Gearboxes & Split Shaft PTOs	GB	220 lb.ft.	10	20	21
	SS66	290 lb.ft.	1	N/A	3
	SSV	940 lb.ft.	2	6	2
Accessories	SSH2	940 lb.ft.	1	6	2
	Shaft Extensions		N/A	N/A	N/A
	Gear Adapters		N/A	N/A	N/A

We carry a complete line of hydraulic pumps including gear and piston models.



PUMPS



F SERIES

F SERIES GEAR PUMP

The F-Series is the smallest of the gear pump family. It is designed with sleeve-type bushings and an aluminum housing. Available in a number of configurations for special low flow applications or for general duty.



K/L SERIES

K/L SERIES GEAR PUMP

Both the K and L-Series pumps are offered with SAE 2 & 4 bolt "B" mounting patterns and a variety of shafts as well as foot-mounted flanges. Standard pumps can be used as either a pump or hydraulic motor with side and rear ports machined into the housings. All K and L-Series pumps are constructed with cast iron housing and roller bearings for durability in the worst of environments.



F & H SERIES

H SERIES GEAR PUMP

The H-Series pump is the most commonly used as the basis for our clutch pump product line. Offered in a variety of direct mount (SAE "A") or remote mount configurations. Built with a cast-iron housing and long life sleeve type bearings.

F & H SERIES CLUTCH PUMPS

Both the F-Series and H-Series pumps are available for engine mounting, depending upon flow requirements. PF3 Series with Poly V-Belt provides low flow, high performance capabilities in a compact mounting package.

Switch plate & light for dash mount included.



E DIRECT

E REMOTE

DUMP PUMPS

E, EH or S-Series Dump Pumps will fit your applications whether moving 1 or 20 tons. Cast iron housings and roller bearings for durability. Built-in directional control and relief valve functions. S-series are available for single or double acting cylinders. E & EH models are designed for single acting cylinders.

MOUNTING KITS

The kits are designed on the various chassis for perfect alignment, durability and ease of installation. Mounting kits include all hardware, pulleys, and belts as required.



PUMP TYPE	PUMP SERIES	DISPL RANGE cu.in. (cm ³)	FLOW RANGE GPM (LPM)	MAX PRESSURES PSI (BAR)	MAXIMUM RPM
Std Gear Pumps	PF3	.24-2.01 (4-33)	1-8.7 (4-33)	2700-4000 (186-276)	2200-4000
	PH	.62-2.48 (10-41)	3-11 (10-41)	2000-3500 (138-241)	3000-3500
	PK & PKS	.98-3.94 (16-65)	4-17 (16-65)	2500-3000 (172-207)	2500-3500
	PL	3.18-7.01 (52-115)	14-30 (52-115)	2000-3000 (138-241)	2500-3000
	PM	6.1-9.27 (100-152)	27-40 (100-152)	2500-3000 (172-207)	2500-3000
Clutch Pumps	PF3	.43-1.74 (7-28)	1.8-7.5 (7-28)	2000-4350 (138-300)	2500-3000
	PH	.62-2.48 (10-41)	3-11 (10-41)	2000-3500 (138-241)	3000-3500
Dump Pumps	S2/S3/S4/S5	1.47-3.45 (24-57)	6-15 (24-57)	2500 (172)	2500
	E2/E3	5.2-6.37 (85-104)	23-27 (85-104)	2500 (172)	2500
	EH2/EH3	4.95-6.60 (81-106)	23-27 (85-104)	2500 (172)	2500

MUNICIPAL

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Specialty pump systems were designed specifically for the solid waste and municipal market requirements.

POWR-PRO & POWER-MISER SYSTEMS

These systems can be driven from the engine crankshaft or by a PTO. Each provide hydraulic power at the flip of a switch. In the "off" mode, pumps receive only enough oil for lubrication purposes, saving the cost of moving fluid through the system when not in use.



L & M SERIES REFUSE PUMPS

Special versions of the L and M Series pumps have been constructed to serve as direct replacements for factory installed hydraulic pumps on refuse equipment. *We suggest you contact us with your specifications.*



MLSM LIVE-PAK SYSTEM

The MLSM Live-Pak system was specifically designed for start and stop refuse collection equipment. The MLSM can be used for new equipment or retrofitted to existing refuse packers.



EOS-110, EOS-111 & EOS-210 SPEED CONTROL

The EOS disengages auxiliary power equipment when preset operating speed is reached and re-engages it when engine speeds return to preset safe levels. Switching speeds from 300 to 3,000 RPM. Made of solid state components with no moving parts.

FIXED DISPLACEMENT PISTON PUMPS

All models are designed to handle the higher system pressures found in modern equipment and are equipped with the DIN 5462 mounting to handle the load and reduce fretting.



VARIABLE DISPLACEMENT PISTON PUMPS

The PV-Series offer a high pressure, continuous duty design in a compact package. All PV pumps have a cast iron case and port plate with optional side or rear ports.



SELF-CONTAINED ENCLOSURE SYSTEMS

Designed to reduce installation time and protect vital components from the harsh operating environment. Modular design permits custom arrangement of components and plumbing including in-tank filters, flow control valves, open center or load-sense valves and spreader valves.





MESP SERIES ELECTRONIC HYDRAULIC SPREADER



Micro-processor based Electronic Hydraulic Spreader control system. Capable of 3,000 psi with input flows to 35 gpm. Fully adjustable relief valve. Backlit display, onboard diagnostics, fully programmable, automatic, manual or spot mode operation controls road temperature measurement and data logging and reporting to monitor vehicle or fleet activity. Also available with GPS compatibility.



MANUAL SPREADER CONTROL VALVE

Pressure compensated flow regulator is designed for spreaders where precise control of functions may be required. Standard dual controls, SAE D-ring porting and a manual shut-off.

CEMENT BLOWER

High flow, oil free, radial vane compressor. Corrosion resistant, stainless steel rotor. Steel shafts for durability and strength.



COMPRESSOR

Low noise pollution, compact design, dual rotation, plated components, 100% oil free air, low horsepower and quick strip design.



TRUCK BLOWER

Truck blowers are highly versatile with their ability to unload a variety of products from fine powders to food products to pebbles. With strong features including oil tanks at both ends, wide speed and flow capabilities, large driveshaft and bearings, and 20 psi capability and are built tough for long lasting performance.



Specs	
Air flow	390-1300 CFM
Pressure	18-20 psi continuous
Vacuum	17" HG continuous
Blower Wt.	340-380 pounds
Warranty	12 months



VALVES & BLOWERS



STAINLESS STEEL PUMPS

COMPACT, LIGHTWEIGHT CONSTRUCTION

- Significantly less equipment weight: only 148 lbs, allowing you to carry more product and higher profits.
- Higher displacement speed with flows up to 340 gpm which means faster unloading, more profitable turnaround, more trips.
- Aluminum gear case features universal hydraulic motor, close-coupled mountings, sealed roller bearings. More efficient operation; hollow pump shaft is adaptable to a variety of drives.



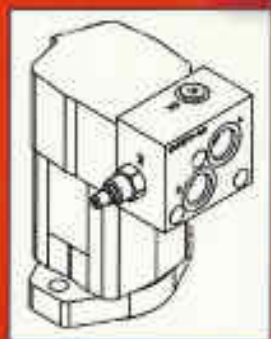
blackmer TX/TXD - SLIDING VANE PUMPS

Ideal for clean, lubricating liquids for petroleum products such as fuel oil, diesel, kerosene, gasoline, avgas, jet fuel and light lube oils.



ROPER PUMPS

Ideal for mixing, blending, recirculating and transferring heavy, viscous material in mobile transfer applications. Perfect for gasoline and oils.



MANIFOLD & KICK-OUT STYLE HYDRAULIC RELIEF

Eliminates the need of a relief on your Viking Food Grade Pumps. Call for details.

CHAR-LYNN HYDRAULIC MOTOR 2000 SERIES



- Features:
Design flexibility. All disc valve motors are available with various configurations.
- Benefits:
Lowest pressure drop motor in the industry. Widest range of options. The most experienced manufacturer of LSHT motors.



HYDRAULIC DRIVE COOLING SYSTEM

This is a pre-engineered, highly efficient, hydraulic oil cooling package. It includes the oil reservoir, cooler, return line filter and system relief valve. All components are designed into a small, lightweight, quiet and inexpensive package.

HYDRAULIC DRIVE COOLING SYSTEM

Hydraflow is designed and assembled as a complete, easy to install package.

Benefits include:

- Maximum efficiency from hydraulic fan system
- Minimize filter damage with filter bypass valve
- Preventable oil spillage with quick, top mounted filter
- Hidden breather reduces water contamination
- Radiator bypass valve
- Cartridge style relief valve

CORROSION FREE 304 STAINLESS STEEL BODY STRUCTURE

QUICK, EASY ACCESS TO FILTER

FORWARD FACING RADIATOR PREVENTS RADIATOR DAMAGE AND CLOGGING

OIL DRAIN PLUG

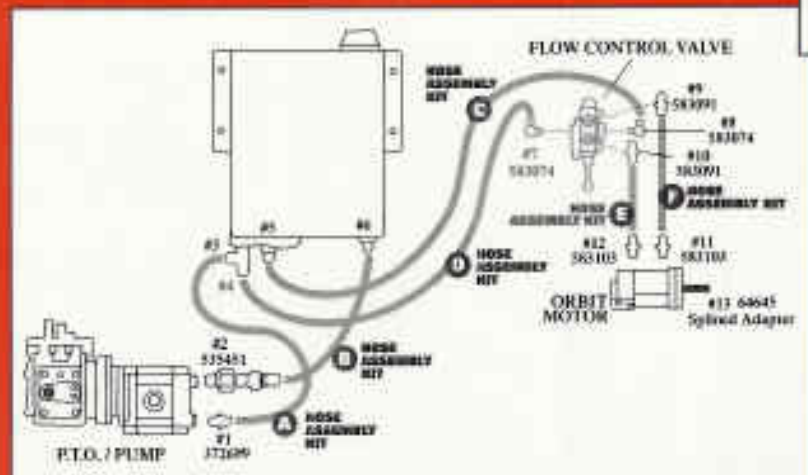
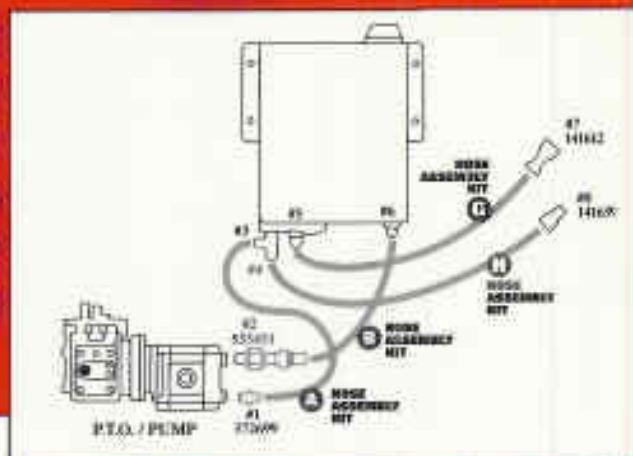
EASY ACCESS CONNECTIONS



BRAND HYDRAULIC MOTORS



TRAILER MOUNTED HYDRAULIC MOTOR COMPLETE SYSTEM



TRACTOR MOUNTED HYDRAULIC MOTOR COMPLETE SYSTEM



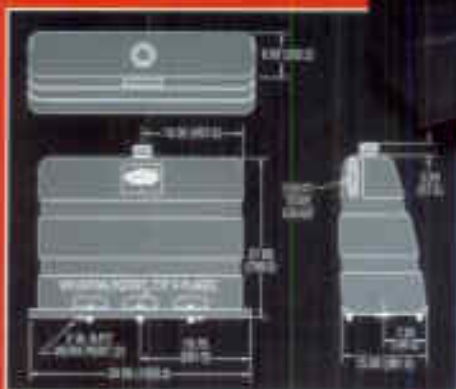
RESERVOIRS



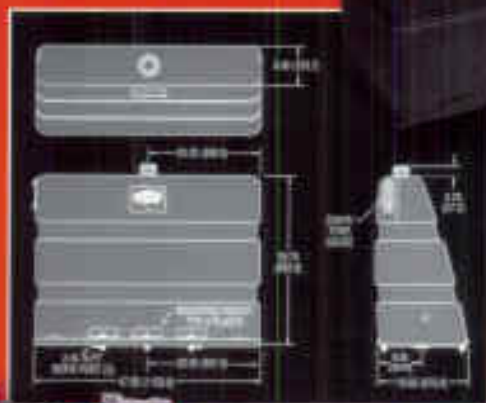
POLYETHYLENE RESERVOIRS

- Anti-slosh fill neck is standard along with a 1/4 turn 40 micron chromed filter cap
- Lifetime warranty, can also extend warranty of the accompanying PTO and dump pump (see warranty)
- Optional 3/4" N.P.T. port to temperature switch
- Easy mount design with six mounting flanges eliminates the use of straps that can require retightening due to stretch or rot (uprights only)
- Easy-to-read five inch fluid level sight gauge with thermometer standard
- Return line diffuser
- Raised fill neck that allows water to roll away from the fill port (side mount)
- 100% pressure tested to eliminate leaks in the field
- Easily adapts to 2 or 3 lines for most dump trailer applications

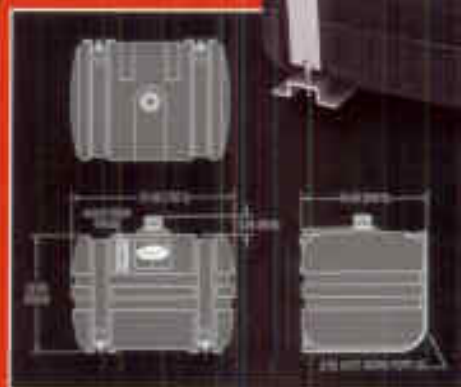
50 GALLON POLYETHYLENE UPRIGHT RESERVOIR



75 GALLON POLYETHYLENE UPRIGHT RESERVOIR



50 GALLON POLYETHYLENE SIDE MOUNT RESERVOIR



70 GALLON METAL UPRIGHT RESERVOIR



50 GALLON UPRIGHT RESERVOIRS

METAL RESERVOIRS

- Filler breather assembly standard with nylon strainer and 1/4 turn 40 micron chromed filter cap
- One year warranty
- Easy-to-read five inch fluid level sight gauge with thermometer standard (uprights)
- Easy mount design with integral mounting flanges eliminates the use of saddles and straps that can require retightening due to stretch or rot
- 3/4" N.P.T magnetic drain plug
- Return line diffuser
- Raised fill neck that allows water to roll away from the fill port
- 100% pressure tested to eliminate leaks in the field
- Easily adapts to 2 or 3 lines for most dump trailer applications

55 GALLON SIDE MOUNT RESERVOIRS



METAL SIDE MOUNT HYDRAULIC OIL RESERVOIRS



15 GALLON



25 GALLON



35 GALLON



75 GALLON





17 SERIES DIRECTIONAL CONTROL VALVE

- Solenoid operated and compact making it ideal for small dump bodies, snow plows, tow trucks and service bodies.
- Capable of 3,500 psi with flows to 18 gpm.



MSV SERIES VALVE

- Two position, three way selector valve.
- Directs oil flow into two separate hydraulic circuits or can be used as a low pressure bypass back to the reservoir.
- Nominal flow capacity of 60 gpm with pressures up to 3,000 psi.
- Cast iron body with chrome plated spool.
- Optional integral air shift & pipe or straight thread ports.



V20 SERIES DIRECTIONAL CONTROL VALVE

- Sectional style valve with flow capacity of 30 gpm and rated for 3,500 psi.
- It is an open center, parallel circuit design with a built-in, adjustable relief valve.
- Optional configurations include closed-center circuitry and high-pressure carry-over (power beyond).
- Operated by lever, cable, air or solenoid and is available with either NPT or SAE porting.



60V & 90V SERIES DIRECTIONAL CONTROL VALVE

- Large sectional style valves with flow capacity of 60 & 90 gpm and rated for 2,500 psi.
- The valves are of open-center, parallel design with an adjustable main relief valve.
- Large internal passages reduce internal pressure drop making the 60V and 90V ideal for high flow applications.



PFD-30 PRIORITY FLOW DIVIDER VALVE

- Allows a portion of the system fluid to be directed to a function that should have priority over other functions.
- Max Flow - 30 gpm
- Max Pressure - 3,000 psi
- Ports - 3/4" N.P.T. Std.
- Optional SAE O.D.T. ports



PILOT OPERATED RELIEF VALVES

- Provides maximum system pressure protection, even with widely varying flow rates, inline or tee mounted.

RV-30

- Max. Flow - 30 gpm
- Adjustable Pressure Range - 300-3,000 psi
- SAE O.D.T. ports

RV-60

- Max. Flow - 60 gpm
- Adjustable Pressure Range - 300-3,000 psi
- SAE O.D.T. ports



65 SERIES LOAD SENSE VALVE

- Closed-center, load sense design with individual spool compensators for uninterrupted simultaneous operation.
- Rated for 4,000 psi and flows to 65 gpm.





CUSTOM CABLE CONTROLS

Remote control cable systems allow in-cab control of PTOs, pumps and valves with a push-pull cable. All cables designed to provide trouble-free service for a variety of heavy-duty control applications.



DUMP BODY AIR SHIFT CONSOLES

- Nine styles
- Brushed aluminum face plate on most types.
- Air installation kit available.
- Height options of 4, 8, or 13 on most types. 12" standard on type A or B.
- Black powder coat finish.
- Types B, E, F, & G provide a large surface for mounting extra switches, lights, valves, etc.
- Symmetrical design on types C, D, E, F, G & H for mounting on either side of driver's seat.
- New angle mount for floor or dash.



REMOTE VALVE CONTROL SYSTEMS

Allow in-cab direct control of PTO's, Pumps and Valves with a push-pull cable. Totally enclosed actuation hook-up kits are available to provide "sealed from the elements" operation.

The TG-series PTO can use the optional lever shift cover assembly and the RVC-HK-44 for an enclosed heavy duty weather resistant shifter system.



DC POWER PACKS

- Standard pre-packaged or custom assemblies
- SAE O-Ring porting
- Horizontal (Std.) or Vertical mounting
- 60 Micron suction line strainer & 40 Micron breather cap standard
- Optional polyethylene motor cover, mounting brackets, and flow controls
- Choose from various sizes of steel and translucent polyethylene reservoirs
- 12VDC 1800 Watt High Capacity motor with thermal overload protection standard
- Large selection of directional valve choices.
- 6 Pump sizes
- Two button corded control or manual hand valve operators



REPRESENTING

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And Many More!

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