



GLOBAL MOBILE POWER®

POWER TAKE OFFS

HYDRAULIC PUMPS

HYDRAULIC FILTERS

GEARBOXES

PISTON PUMPS



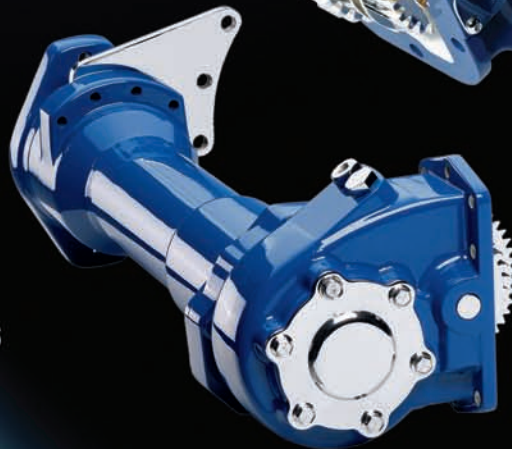
DC POWERPACKS

HYDRAULIC VALVES

HYDRAULIC RESERVOIRS

WETLINE SYSTEMS & KITS

SNOW & ICE REMOVAL



INNOVATIVE PRODUCTS FOR AN EVER CHANGING WORLD

MUNCIE POWER PRODUCTS, INC.

POWER TAKE-OFFS

In 1983 Muncie Power Products, Inc. switched from the role of PTO distributor to a manufacturer. As a manufacturer, we maintained one important goal from our role as a successful distributor. That was to provide exceptional customer service and delivery by maintaining a large inventory and a staff of application experts. What follows is a brief outline of the major products we currently offer. For specific information on any of these, you may request specific literature, visit our website, or contact our Customer Service Department.

TG SERIES POWERFLEX™ PTO

The TG Series has had a major impact on the PTO market in North America, with others emulating the features and benefits of the design. The TG Series is the industry's most popular and versatile PTO design, and is still the heart of the Muncie PTO product family. The TG's flexibility permits a wide variety of PTO/transmission applications, and wide gear design permits torque capacity for most truck equipment applications. Using many of the same internal components the **Muncie Alpha Series** PTO is designed to fit in specific tight installations like the Dodge manual 6-speed transmissions, and is available with cable shift, air or E-Hydra options.



SIX SHIFTING CHOICES



Air Shift



Cable Shift



E-Hydra Shift*

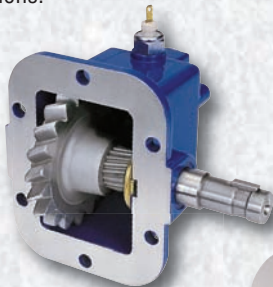
U.S. Pat. 6,739,130

(also Electric/Air Shift, Hydraulic Shift and Lectra Shift options)

*E-Hydra Shift is the latest in the product shift options for the TG series PTO. It allows for PTO engagement or disengagement using electric current. The current draw is low and only effective during the engage or disengage process. Its simple installation makes it the correct choice for most applications.

SG SERIES

Muncie's single gear PTO uses lightweight aluminum in a compact housing to provide power in a small package for easy installation.



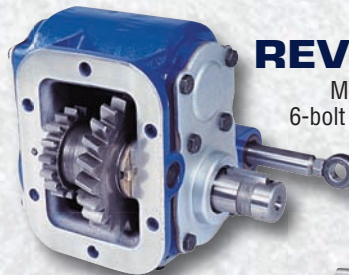
82 SERIES 8-BOLT

This true 8-bolt design takes advantage of the power capabilities of heavy-duty transmissions. Extra wide gears and large output shaft options provide the highest power capacity for the most severe mobile power applications.



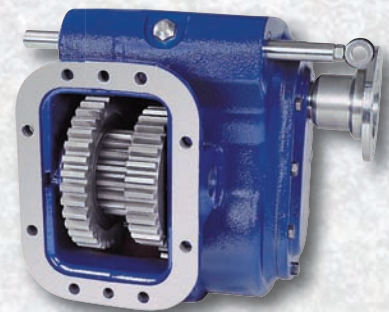
REVERSIBLE PTOS

Muncie's RG & RL series of reversible 6-bolt PTOs were designed for mechanical winches and reversible product pumps. Both are one speed forward and one speed in reverse.



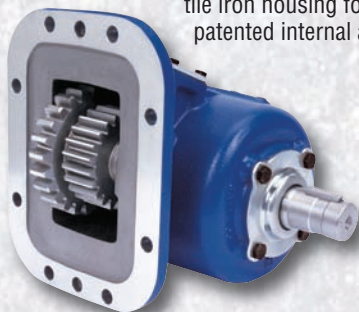
83 SERIES

This full capacity 8-bolt PTO was designed for heavy duty reversible applications found in the oil fields, refueling pumps and large cranes. It offers one speed forward and reverse.



SH SERIES

The SH series is designed to fill the gap between the TG series and the 82 series PTO families. The SH has wide gears in a high-strength ductile iron housing for increased power capacity, and a patented internal air actuation design for simplicity.



PTO TYPE	PTO SERIES	MAX TORQUE	INTERNAL RATIOS	OUTPUT OPTIONS	SHIFT OPTIONS	PRODUCT BROCHURE	SERVICE MANUAL	OWNER'S MANUAL
<i>Manual Shift- Single Rotation</i>	SG	130 lb.ft.	1	1	1	N/A	SP86-05	IN84-03
	TG	285 lb.ft.	10	20	6	MP91-01	SP94-03	IN84-03
	SH	400 lb.ft.	5	10	4	MP97-05	SP97-01	IN84-03
	82	500 lb.ft.	8	9	5	N/A	SP83-03	IN84-03
	A1	285 lb.ft.	10	20	4	MP09-06	SP10-05	IN84-03
<i>Manual Shift- Reversible</i>	RG	140 lb.ft.	1	1	3	N/A	SP94-02	IN84-03
	RL	200 lb.ft.	2	1	3	N/A	SP94-01	IN84-03
	83	500 lb.ft.	3	1	1	N/A	SP83-04	IN84-03



CLUTCH SHIFT PTOS

Clutch Shift PTOs provide the ability to engage and disengage the PTO without disengaging the vehicle's clutch. They can be designed for both manual and automatic transmissions and are the preferred type of PTO for automatics. Muncie offers clutch style PTOs for SAE standard PTO openings as well as providing application-specific models such as the FR and GM products.

FR SERIES

The FR Series PTO was designed in cooperation with Ford Motor Company for the 2003 and newer Super Duty chassis equipped with the Torq®Shift automatic transmission. The FR63 (2 wheel drive) and FR67 (4 wheel drive) mount on the driver's side and offer a variety of direct mounted hydraulic pumps. The PTOs are shipped complete with in-dash activation controls and a complete wiring harness.



CS6 & CS8 SERIES

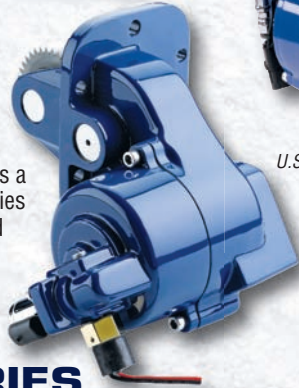
The CS6 & CS8 Series PTOs are built for SAE standard 6- and 8-bolt openings. A wide variety of gears allow the use of this PTO on manual transmissions as well as Allison's family of 1000/2000/2400 series automatics. CB6 & CB8 Series is the CS6 & CS8 Series with a shaft brake option to ensure PTO shaft is stopped when disengaged.



U.S. Pat. 5,542,306

FR66 SERIES

The FR66 Series for FORD Torq®Shift 6-speed with live drive is designed for use on the 6R140 transmission. The clutch shift PTO is a compact design and with the PF series hydraulic pump, delivers the needed power for many applications on the Ford F-Super Duty chassis.



U.S. Pat. 5,542,306

CS24 & CS25 SERIES

The CS24 is designed as a compact PTO for the 10 bolt type Transmissions with an integral hydraulic solenoid actuator valve. It is available in either shaft high or shaft low on either side of the transmission. The CS25 is identical to the CS24 but with a remotely mounted actuator solenoid.



CS10 & CS11 SERIES

U.S. Pat. 5,542,306

The CS10 and CS11 are big brothers to the CS24 and CS25 models. They incorporate larger components for higher power capabilities.



GA/GM SERIES

The GA Series was designed with the cooperation of General Motors Truck engineering and Allison Transmission Division to fit the Allison 2000/ 2000/2400 series transmissions. It is a robust design in a compact housing. The GA/GM is offered with a direct mount pump flange for a variety of pump sizes. The GM is the same as the GA only it is sold with components specific to the 3500HD Silverado/Sierra one-ton Chassis.

CS41 SERIES

The CS41 is the highest rated Clutch Shift PTO available. Designed for the maximum output from the 10 bolt type transmissions. A robust design with ground gears provide maximum service and quiet operation.

PTO SHAFT EXTENSIONS

PTO shaft extensions are available for the CD10 and CS24 series of PTOs for the 10 bolt type transmissions. The patented shaft extensions move the hydraulic pump mounting points to the rear of the transmission where space is more readily available.

CONSTANT DRIVE PTOS

CD10/CD40 SERIES

The CD10 is a constant drive designed specifically for the 10 bolt type transmission family. This PTO provides full time power to the rear of the transmission just as crankshaft drives do to the front of the vehicle. This simplifies hydraulic pump installations and reduces costs associated with hydraulic hoses and mounting fixtures. The CD40 is a high torque rated design for applications requiring the maximum load available from the transmission.



PTO TYPE	PTO SERIES	MAX TORQUE	INTERNAL RATIOS	OUTPUT OPTIONS	SHIFT OPTIONS	PRODUCT BROCHURE	SERVICE MANUAL	OWNER'S MANUAL
Clutch Shift- Single Rotation	FR	190 lb.ft.	1	4	2	MP02-09	SP04-03	IN03-01
	GA	158 lb.ft.	1	1	1	N/A	SP01-02	IN84-03
	GM	158 lb.ft.	1	1	1	N/A	SP01-02	IN01-03
Constant Drive	CS6/CS8 & CB6/CB8	350 lb.ft.	7	12	6	MP96-07	SP96-05	IN84-03
	CS24 & CS25	325 lb.ft.	5	12	2	MP98-04	SP96-01	IN95-02
	CS10 & CS11	500 lb.ft.	5	8	2	MP98-04	SP95-03	IN95-02
	CS41	600 lb.ft.	3	6	2	MP98-04	SP06-01	IN95-02
Constant Drive	CD10	400 lb.ft.	5	12	N/A	MP98-04	SP93-04	IN95-02
	CD40	600 lb.ft.	2	6	N/A	MP98-04	N/A	IN95-02

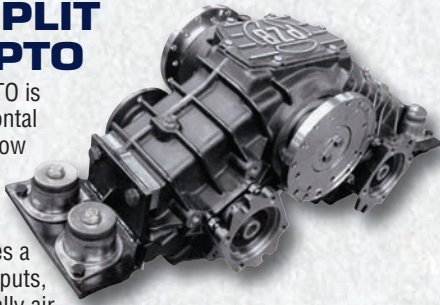


SPLIT SHAFT PTOS & GEARBOXES

SSH2 SPLIT SHAFT PTO

SSH2 split shaft PTO is oriented in a horizontal configuration to allow up to four PTO outputs.

An internal speed ratio of 128% drives a combination of outputs, which are individually air activated. These can be configured for driveshaft or hydraulic pump mounts. Through shaft rated for most medium or heavy duty chassis. A hydraulic shiftable output shaft option is available (SSHC Series).



SSV SPLIT SHAFT PTO

The SSV is designed for the highest level of power requirements. It mounts in the main driveline of most medium to heavy-duty chassis and has 2 output locations vertical of the main driveshaft, one to the front and one to the rear. There are two output speed options for the SSV model split shaft of 128% or 156% of input rpm to the gearbox. Outputs can be for driveshafts or direct mount pumps, and are individually activated via air controls. Very large ground gears keep noise levels low while providing very high power capabilities.



SS66 SPLIT SHAFT PTO

The SS66 split shaft PTO is designed to provide up to two 6-bolt PTO mounting points for light to medium duty vehicles without a transmission PTO opening or additional openings for vehicles with only one opening. A wide range of Muncie PTOs can be installed on the openings with the full range of PTO options. SS66 mounts in the main driveline behind the transmission or behind any driveline output, providing input speeds based upon the input shaft speed. Contact our Customer Service Department for limitations with some transmissions.



GB SERIES GEARBOX

The GB series is basically two PTOs mounted to each other to provide a convenient method of engaging or disengaging a crankshaft-driven hydraulic pump. The GB series can incorporate either TG, RG, RL or CS6 PTOs, offering a great deal of versatility. Special gearbox for Allison 1000/2000 with CS6 PTO. 2:1 Low Box.

SPECIAL APPLICATIONS & FOREIGN CHASSIS

As part of the Interpump Hydraulics Group of companies, Muncie can supply many special PTO products as well as PTOs and pumps for most foreign built chassis. Contact our Customer Service Department with your requirements.



RS4S SERIES COUNTERSHAFT PTO

Rear-mount countershaft PTOs are available for the Eaton Lightning Transmission and the ZF/Meritor Freedomline automated transmission.

Options for output shaft types and speeds are available. Rear mounted PTOs offer customers a convenient alternative to the side mount openings often allowing for

multiple PTO installations or clearance to chassis components. Rear mounted PTOs are also available for the new Caterpillar automatic transmission and can be constant drive or clutch activated.



GEAR ADAPTERS

A wide range of gear adapters is available to clear mounting obstacles or to reverse the PTO output rotation. Specific gear adapter availability can be found in the Muncie PTO Quick Reference catalog.

CUSTOM-PRODUCED CABLE CONTROLS

Remote control cable systems allow in-cab control of PTOs, pumps and valves with a push-pull cable.

Choose from a variety of cables and control heads to meet any job requirement. All cables are designed to provide trouble-free service for a variety of heavy-duty control applications.



SPD-1001A

The SPD disengages auxiliary power equipment (PTOs and pumps) when preset operating speed is reached and re-engages it when engine speeds return to preset safe levels. Switching speeds can be adjusted from 300 RPM to 3000 RPM or can be set to monitor MPH. The SPD is made of solid state components with no moving parts and is easily adaptable to diesel or gasoline engines using only electronic connections. Can be used on 12v or 24v systems.



PTO TYPE	PTO SERIES	MAX TORQUE	INTERNAL RATIOS	OUTPUT OPTIONS	SHIFT OPTIONS	PRODUCT BROCHURE	SERVICE MANUAL	OWNER'S MANUAL
Gearboxes & Split Shaft PTOs	GB	220 lb.ft.	10	20	21	MP84-04	N/A	N/A
	SS66	290 lb.ft.	1	N/A	3	MP01-01	N/A	IN01-02
	SSV	940 lb.ft.	2	6	2	N/A	N/A	N/A
	SSH2	940 lb.ft.	1	6	2	N/A	N/A	N/A
Accessories	Shaft Extensions		N/A	N/A	N/A	MP98-04	SP02-01	IN02-01
	Gear Adapters		N/A	N/A	N/A	see QR	SP93-03	IN84-03



HYDRAULIC PUMPS

Muncie carries a complete line of hydraulic pumps including gear and piston models. All pumps are pressure-balanced and 100% tested prior to shipment to ensure performance and reliability.

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 to provide high performance in a compact, lightweight package. The F-Series is available in a number of configurations for special low flow applications or for general duty.



K/L SERIES GEAR PUMP

Both the K and L-Series pumps are constructed for maximum versatility. These 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. Special versions for pump only applications are available with compact body configurations. All K and L-Series pumps are constructed with cast iron housings and roller bearings for durability in the worst of environments.



H SERIES GEAR PUMP

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

CLUTCH PUMP & MOUNTING KIT

Muncie was one of the pioneers in clutch pump applications and has been providing this type of product for nearly 40 years. Clutch pumps are driven directly off the pulley system at the front of the engine. Kits are available for most popular engine/chassis combinations with either V-belt or Poly groove compatibility. Clutch pumps are popular for applications requiring live engine power or for chassis without PTO accessibility.



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.

MOUNTING KIT

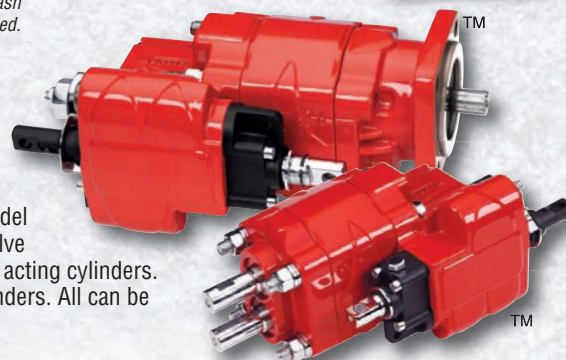
To facilitate installations, a complete line of mounting kits is available. These kits are designed on the various chassis for perfect alignment, durability and ease of installation. Mounting kits include all hardware, pulleys and belts as required.



Brochure MP87-01

DUMP PUMPS

Whether you are moving 1 or 20 tons, Muncie's E, EH or S series dump pump will fit your application. Muncie Dump Pumps are constructed with cast iron housings and roller bearings for durability. Each model incorporates built-in directional control and relief valve functions. S series are available for single or double acting cylinders. E and EH models are designed for single acting cylinders. All can be mechanically or pneumatically shifted.



PUMP TYPE	PUMP SERIES	DISPL RANGE cu.in. (cm ³)	FLOW RANGE GPM (LPM)	MAX PRESSURES PSI (BAR)	MAXIMUM RPM	PRODUCT BROCHURE	SERVICE MANUAL
Std Gear Pumps	PF4	.24-2.01 (4-33)	1-8.7 (4-33)	2700-3625 (186-250)	2200-4000	MP08-06	SP10-04
	PH	.62-2.48 (10-41)	3-11 (10-41)	2000-3500 (138-241)	3000-3500	MP10-05	SP10-01
	PK & PKS	.98-3.94 (16-65)	4-17 (16-65)	2500-3000 (172-207)	2500-3600	MP08-02	SP08-02
	PL	3.18-7.01 (52-115)	14-30 (52-115)	2000-3000 (138-241)	2500-3000	MP08-02	SP08-01
	PM	6.1-9.27 (100-152)	27-40 (100-152)	2500-3000 (172-207)	2500-3000	MP10-06	N/A
Clutch Pumps	PF4	.43-1.74 (7-28)	1.8-7.5 (7-28)	2000-4350 (138-300)	2500-3000	MP09-04	SP10-04
	PH/K	.62-2.96 (10-48)	3-13 (10-48)	2000-3500 (138-241)	3000-3500	MP10-04	SP10-01
Dump Pumps	S2/S3	1.47-3.45 (24-57)	6-15 (24-57)	2500 (172)	2500	MP08-05	SP08-04
	E2/E3	5.2-6.37 (85-104)	23-27 (85-104)	2500 (172)	2500	MP08-01	SP08-03
	EH2/EH3	4.95-6.60 (81-106)	23-27 (81-106)	2500 (172)	2500	MP08-01	SP08-03

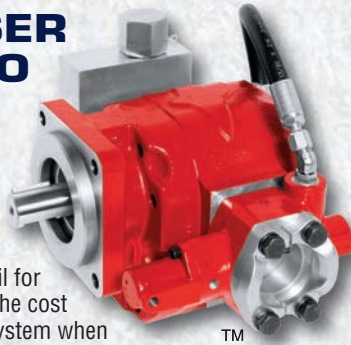


REFUSE & SPECIALTY GEAR PUMPS

Muncie's refuse pumps and special pump systems were designed specifically for the solid waste and municipal market requirements. They're designed for durability while maintaining high efficiency and energy saving features.

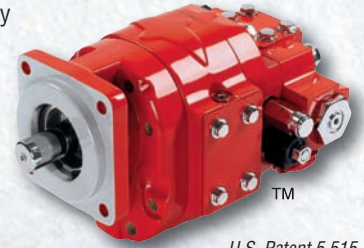
POWER-MISER & POWR-PRO SYSTEMS

These products 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.



MLSM LIVE-PAK SYSTEM

The MLSM Live-Pak system was specifically designed for start and stop refuse collection equipment. The system does not shut off the pump at high RPM and provides flows up to the maximum allowed for the equipment without interruption. This allows for minimum cycle times, increasing the number of collections per shift. The MLSM can be used for new equipment or retrofitted to existing refuse packers.



U.S. Patent 5,515,879

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. Contact our customer service department for your next replacement.

Brochure MP97-04



DC POWER PACKS

Muncie Power Products can provide all of your auxiliary hydraulic power needs with our DC Power Packs. Muncie has always been recognized as your Mobile Power Expert with our complete line of Power Take Offs and Wet Line Hydraulic Systems. We continue that tradition with our line of DC Power Packs for all of your auxiliary power needs. Quality Products with customer service from your Global Mobile Power Source.

Muncie offers both pre-packaged and custom built assemblies. Our standard is the 1800-watt high capacity motor with thermal overload protection. Choose from Steel or translucent Polyethylene reservoirs along with multiple pump sizes. Manual or electric operator controls are available along with optional motor covers, mounting brackets, and flow controls.

Applications include: Dump Bodies, Snow Plows, Bale Spikes, Lift Gates, Aerial Lifts & Ladders, Cranes, Scissors Lift, Material Handling, Agriculture Equipment, and Auxiliary Power Supply.



PUMP TYPE	PUMP SERIES	DISPL RANGE cu.in. (cm ³)	FLOW RANGE GPM (LPM)	MAX PRESSURES PSI (BAR)	MAXIMUM RPM	PRODUCT BROCHURE	SERVICE MANUAL
Refuse & Specialty Gear Pumps	MLSA	1.41-5.3 (23-87)	6-23 (23-87)	2500-4000 (172-275)	2300-3600	MP92-07	SP93-02
	Power-Miser "L"	3.18-5.73 (52-93)	14-25 (52-93)	2500-3000 (172-207)	2500-3000	MP03-06	SP10-02
	Powr-Pro "L"	3.18-5.73 (52-93)	14-25 (52-93)	2500-3000 (172-207)	2500-3000	MP03-06	SP10-02
	Power-Miser "M"	6.1-9.27 (100-152)	27-40 (100-152)	2500-3000 (172-207)	2500-3000	MP03-06	SP10-02
	Powr-Pro "M"	6.1-9.27 (100-152)	27-40 (100-152)	2500-3000 (172-207)	2500-3000	MP03-06	SP10-02
	MLSM "Live Pak"	6.1-9.27 (100-152)	27-40 (100-152)	2500-3000 (172-207)	2500-3000	MP97-06	SP09-02

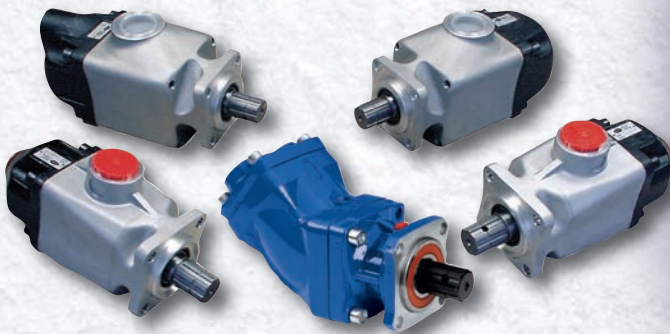




MUNCIE POWER PRODUCTS QUALITY POLICY

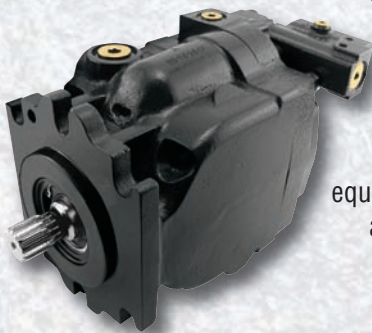
“Muncie Power Products is dedicated to provide quality products and services that will satisfy the needs and expectations of our customers. We are committed to the continual improvement of our products and processes to achieve our quality objectives, minimize costs to our customers and realize a reasonable profit that will provide a stable future for our employees.”

FIXED DISPLACEMENT PISTON PUMPS



Muncie's fixed displacement piston pumps include the P, Q, R, R-tandem and T-Series. The P, Q, R and R-tandem models are in-line designs offering a variety of displacements and are bi-rotational. The T-Series is a bent axis product that can be operated as either a pump or motor. The entire family is designed to handle the higher system pressures found in modern equipment. All models are equipped with the DIN 5462 mounting to handle the load and reduce fretting.

VARIABLE DISPLACEMENT PISTON PUMPS



PV Series, variable displacement piston pumps 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. All pumps are designed for the rigorous needs of the mobile equipment market and are 100% tested prior to shipment. Typical applications include snow and ice control equipment, utility line trucks, loaders and material handling, maintenance equipment and transfer pump systems.

PUMP TYPE	PUMP SERIES	DISPL RANGE cu.in. (cm ³)	FLOW RANGE GPM (LPM)	MAX PRESSURES PSI (BAR)	MAXIMUM RPM	PRODUCT BROCHURE	SERVICE MANUAL
<i>Piston Pumps</i>	PVL	1.83 (30)	7.93 (30)	3045 (210)	3200	MP05-08	N/A
	PVJ	2.75-4.58 (45-75)	11.9-19.8 (45-75)	3370-4495 (260-310)	2400-2800	MP05-08	N/A
	PVE	6.10-8.97 (100-147)	26.4-38.8 (100-147)	3770-4495 (260-310)	2100-2450	MP05-08	N/A
	PP	.732-2.01 (12-33)	3.17-8.71 (12-33)	5075 (350)	2400	MP01-02	N/A
	PQ	1.16-3.66 (19-60)	5-15.8 (19-60)	4350-5075 (300-350)	1700-1800	MP01-03	N/A
	PR	4.27-6.1 (70-100)	18.5-26.4 (70-100)	5075 (350)	1600	MP01-04	N/A
	PR Tandem (per section)	2.5-3.11 (41-51)	10.8-13.5 (41-51)	4350 (300)	1600	MP01-05	N/A
	PT2	2.87-6.59 (47-108)	12.4-28.5 (47-108)	5075-6525 (350-450)	1700-2100	MP07-05	N/A



HYDRAULIC RESERVOIRS

POLYETHYLENE RESERVOIRS

Over 30 years ago, Muncie pioneered the use of polyethylene hydraulic reservoirs for wet line systems. The current products take advantage of the latest in rotational molding technologies, resulting in the finest Poly wet line system reservoirs in the industry. Muncie offers Polyethylene reservoirs in four configurations, 50 & 75 gallon for upright mounting, and 35 & 50 gallon side mounted versions. All models are 100% pressure tested and include all necessary mounting hardware.

50-75 Gallon Brochure MP97-01; 35 Gallon Brochure MP94-04



ALUMINUM AND STEEL RESERVOIRS

For continuous duty applications where high oil temperatures may be encountered, Muncie's line of metal reservoirs will fill your requirements. Upright reservoirs of 50 and 70 gallon capacities made from steel or aluminum are ideal for wet line systems for moving floor trailers, as well as traditional dump applications. If your preference is to mount the reservoirs on the side of the frame, 55 and 75 gallon versions in steel and aluminum are available. For smaller reservoir requirements try our steel reservoirs with capacities of 15, 25 and 35 gallons, all designed for side mounting.

50-75 Gallon Brochure MP97-01; 15-35 Gallon Brochure MP98-08



IN-CAB CONTROL CONSOLES

Muncie offers a variety of in-cab control console assemblies for Power Take-Offs and hydraulic functions. Whether you need cable or air shift, Muncie's ever-growing family of console assemblies can fit your requirements.

Brochures MP06-03 and MP04-01



WET LINE SYSTEMS AND KITS

END DUMP WET LINE SYSTEMS

Muncie has been supplying complete systems for end dump applications for five decades. All systems include the dump pump, control console and reservoir. Naturally, Muncie has the right Power Take-Off as well as hoses and fittings to complete the installation.

COMBO KIT SYSTEMS

These systems allow a common tractor to effectively operate multiple trailers requiring different levels of hydraulic pressure. Muncie now offers two Combo Kit systems. The traditional version utilizes a frame mounted sectional control valve, with one section for the dump body and a second for other applications. We now offer the COMBO KIT II, which takes advantage of European technologies to provide installation and operational features not found in any other kit available on the market. Compact pneumatic controls provide reliable operation for end dump, live floor or equipment trailers. The reservoir contains the hydraulic control valve and return line filter. A single pressure hose connection to the trailer can serve applications with multiple hydraulic pressure requirements.

*Combo Kit Brochure MP92-02;
Combo Kit II Brochure MP02-06*



HYDRAULIC FILTERS

Protect your hydraulic system from contamination-related failures by using one or more of Muncie's hydraulic filters. Traditional paper or synthetic microglass media are available for nominal or absolute filtering requirements.

RETURN LINE FILTERS

Return line filters come in a variety of styles for in-tank or in-line mounting and offer basic contamination protection. Condition indicators allow for effective maintenance scheduling. Muncie offers models from 25 to 100 GPM capacities.

HIGH-PRESSURE FILTERS

For the highest level of hydraulic system protection, high-pressure filters can be installed in the main high-pressure line or at critical points. Muncie high-pressure filters are rated to 3000 PSI for flows from 37 to 55 GPM.

Brochure MP98-07



HYDRAULIC VALVES

If the pump is the heart of a hydraulic system, the control valve is the brain. Muncie offers a complete line of valves to control the direction, pressure, and flow rate of the oil in a system.

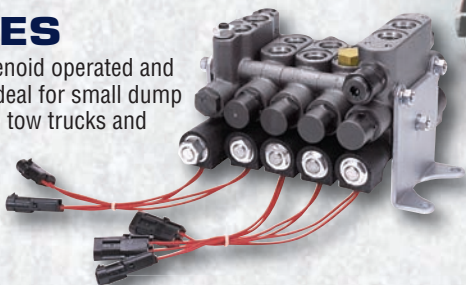
DIRECTIONAL CONTROL VALVES

The Muncie family of sectional style, directional control valves includes several series with capacities from 17 to 90 GPM ratings. Whether your needs are for a small one-ton chassis tool circuit, a snow and ice control vehicle or a refuse packer, there is a Muncie valve to fit your needs.

17 SERIES

The 17 Series is solenoid operated and compact making it ideal for small dump bodies, snow plows, tow trucks and service bodies. The 17 Series is capable of 3,500 PSI with flows to 18 GPM.

Brochure MP98-05



V20 SERIES

V20 Series is a sectional style valve with flow capacity to 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). The V20 can be operated by lever, cable, air or solenoid and is available with either NPT or SAE porting.

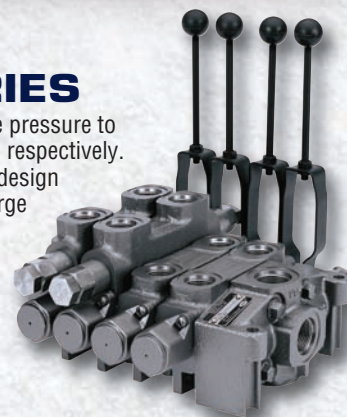
Brochure MP03-04



60V & 90V SERIES

These large sectional valves can handle pressure to 2,500 PSI and flows of 60 and 90 GPM respectively. 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.

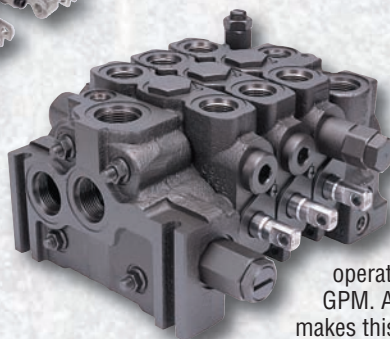
60V Brochure MP95-08; 90V Brochure MP95-09



65 SERIES LOAD SENSE VALVE

The 65 series is a closed-center, load sense design with individual spool compensators for uninterrupted simultaneous operation. It is rated for 4,000 PSI and flows to 65 GPM. A variety of spool functions and flow settings makes this valve highly adaptable for your application.

Brochure MP98-06



ACCESSORY VALVES

Muncie's line of accessory valves complete your hydraulic system with pressure or flow controls, and circuit selection.

PFD-30 PRIORITY FLOW DIVIDER

The PFD-30 allows a portion of the system fluid to be directed to a function that should have priority over other functions. In other words, the priority flow gets the available fluid and any excess flow can then be used for other functions.

- Max. Flow – 30 GPM (114 LPM)
- Ports – 3/4" N.P.T. Std.
- Max. Pressure – 3000 PSI (207 BAR)
- Optional SAE O.D.T. Ports

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 (227 LPM) with pressures up to 3000 PSI (207 BAR).

- High grade cast iron body
- Optional integral air shift
- Chrome plated spool
- Optional pipe or straight thread ports

Brochure MP93-02



PILOT OPERATED RELIEF VALVES

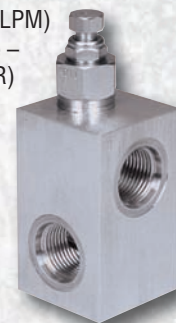
Provides maximum system pressure protection, even with widely varying flow rates. Inline or tee mounted.

Model – RV-30

- Max. Flow – 30 GPM (114 LPM)
- Adjustable Pressure Range – 300-3000 PSI (21-207 BAR)
- SAE O.D.T. ports

Model – RV-60

- Max. Flow – 60 GPM (227 LPM)
- Range – 300-3000 PSI (21-207 BAR)
- SAE O.D.T. ports



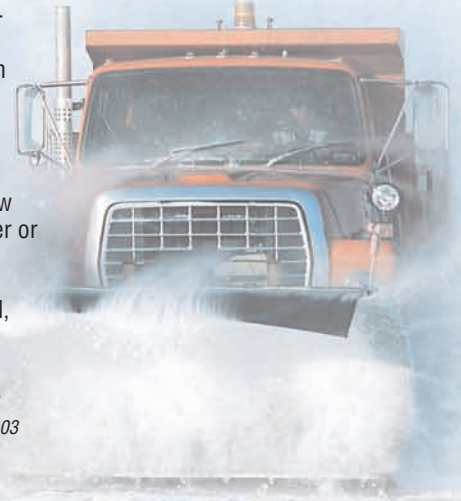
SNOW AND ICE REMOVAL SYSTEMS

Muncie Power Products, Inc. has been supplying central hydraulic systems for snow and ice control vehicles for over 40 years. Muncie packaged the reservoir and hydraulic controls in a single enclosure over 25 years ago. So our experience in this area is vast. Whether you are building a one-ton with a snow plow or a truck with multiple plow wings, a scraper, material spreader box and/or a liquid system, we can help.

SELF-CONTAINED ENCLOSURE SYSTEMS

Enclosure systems are designed to reduce installation time and protect vital components from the harsh operating environment. A modular design permits custom arrangement of components and plumbing including in-tank filters, flow control valves, open center or load-sense valves and state-of-the-art proportional, electronically controlled spreader valves.

Brochure MP95-03



MESP SERIES ELECTRONIC SPREADER CONTROL

MESP stands for Microprocessor-based Electro-hydraulic Spreader control system. This state-of-the-art-product is capable of 3,000 PSI with input flows to 35 GPM. A fully adjustable relief valve is incorporated as are independent controls for conveyor and spinner functions. Product features include a 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. MESP controllers are also available with GPS compatibility.

Brochure MP01-09



MANUAL SPREADER CONTROL VALVE

Pressure compensated flow regulator is designed for spreaders where precise control of functions may be required.



Standard dual controls, SAE O-ring porting and a manual shut-off.

- Input flows to 40 GPM
- "A" regulated flow to 15 GPM
- "S" regulated flow to 5 GPM
- Choice of open center or optional load sense design
- Fully compensated
- Viton seals
- Lightweight anodized aluminum construction with hardened steel working components

Part Number: SVDV-155-SLA (Open Center)

Part Number: SVDLS-155-SLX (Closed Center Load Sense)





WORLD CLASS SERVICE WORLD WIDE COVERAGE

Muncie Power Products, Inc. and our network of Independent Master Warehouses (MIMWs) are located in all major North American markets. Additional distribution in key foreign markets ensures access to Muncie products wherever needed, thus our slogan, "Global Mobile Power." For the nearest stocking location, visit our website or contact us directly.



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While the application of our products continues to become more complex, we continually strive to simplify the process for our distributors and customers. In 1994, we introduced "M-POWER," the industry's first interactive computer application software. M-POWER is the interactive software program that works with you to custom select the proper Muncie PTO components for your application. Developed by Muncie Power Products, M-POWER has computerized Power Take-Off application selection. M-POWER places Muncie's highly regarded expertise at your fingertips. M-POWER is available on CD-Rom and on the web.

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