

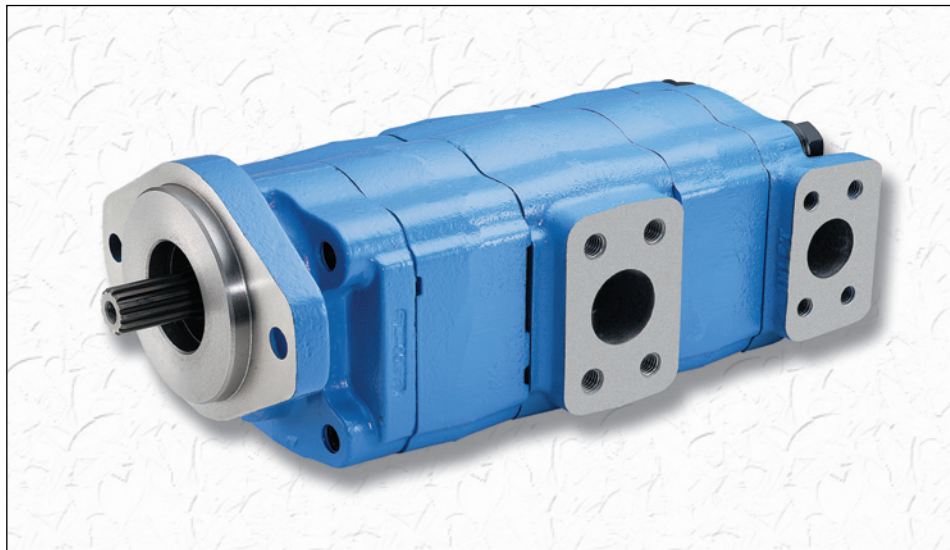


ROLLER BEARING PUMPS AND MOTORS

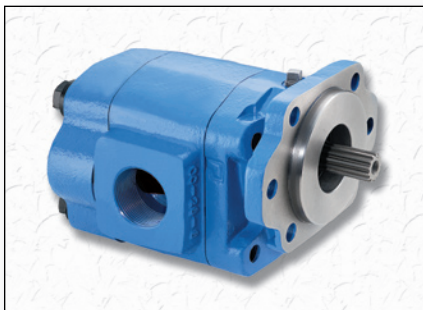
SLEEVE BUSHING PUMPS AND MOTORS

FLOW DIVIDERS/INTENSIFIERS

ACCESSORIES



For mobile and industrial applications:



- Construction Equipment
- Refuse Equipment
- Mining Machinery
- Agricultural Equipment
- Oil Field Equipment
- Industrial Equipment
- Forestry Equipment






The Sensible Choice



ROLLER BEARING PUMPS AND MOTORS

Specifications

Gear Width

Series		0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	
 P2100	2100/3000/3100	GPM/1000 RPM/2000 PSI	**	**	6.5	8.5	11.0	12.5	15.0				
		LPM/1000 RPM	**	**	25	32	42	47	57				
		IN³	1.0	1.5	2.0	2.5	3.0	3.5	4.00				
		CC	16.4	24.6	32.8	41.0	49.2	57.3	65.5				
		*** Max RPM	2400	2400	2400	2400	2400	2400	2400				
		# 2100 - Max PSI	3000	3000	3000	3000	3000	2500	2500				
		# 3100 - Max PSI	3000	3000	3000	3000	3000	2500	2500				
		# 3000 - Max PSI	2500	2500	2500	2500	2500	2250	2250				
		* Motor/Input GPM	**	**	12.0	14.0	16.5	19.0	21.0				
		* Motor/Output in-lbs	**	**	570	730	895	1035	1175				
		* Motor/Output HP	**	**	9.0	11.5	14.0	16.5	18.6				
 P5151	5000/5100/5151	GPM/1000 RPM/2000 PSI	**	**	9.5	12.0	14.5	17.5	19.5	21.0	23.5		
		LPM/1000 RPM	**	**	36	45	55	66	74	79	89		
		IN³	1.29	1.93	2.57	3.22	3.86	4.50	5.15	5.79	6.43		
		CC	21.1	31.6	42.2	52.7	63.2	73.8	84.3	94.9	105.4		
		+ Max RPM	2400	2400	2400	2400	2400	2400	2400	2400	2400		
		5151 - Max Peak PSI	N/A	N/A	N/A	N/A	N/A	3000	3000	3000	3000		
		# 5100 - Max PSI	3000	3000	3000	3000	3000	3000	2500	2500	2500		
		# 5000 - Max PSI	2500	2500	2500	2500	2500	2000	2000	2000	2000		
		* Motor/Input GPM	**	**	13.5	16.5	19.5	23.0	26.0	29.0	32.0		
		* Motor/Output in-lbs	**	**	725	925	1130	1320	1510	1695	1885		
		* Motor/Output HP	**	**	11.5	15.0	18.0	21.0	24.0	27.0	30.0		
 P7500	7500/7600	GPM/1000 RPM/2000 PSI	**	**	14.5	19.0	23.0	27.0	31.0	35.5	39.0	44.0	49.0
		LPM/1000 RPM	**	**	55	72	87	102	117	134	148	167	185
		IN³	2.02	3.03	4.04	5.06	6.07	7.08	8.09	9.1	10.1	11.1	12.1
		CC	33.1	49.7	66.3	82.8	99.4	116.0	132.5	149.1	165.7	182.2	198.8
		Max RPM	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
		# 7600 - Max PSI	3000	3000	3000	3000	3000	3000	2500	2500	2500	2000	2000
		# 7500 - Max PSI	2500	2500	2500	2500	2500	2500	2500	2250	2250	2000	2000
		* Motor/Input GPM	**	**	23.0	28.0	33.0	37.5	42.0	46.5	51.0	56.0	61.0
		* Motor/Output in-lbs	**	**	1095	1390	1690	1980	2265	2590	2915	3300	3690
		* Motor/Output HP	**	**	17.5	22.0	27.0	31.5	36.0	41.0	46.5	52.5	58.5

*Motor Specifications are given at 1000 RPM and @ 2000 PSI

** Consult Permco on these gear sizes.

***2000 RPM Maximum on Motors

The information shown above represents the maximum continuous operating conditions.

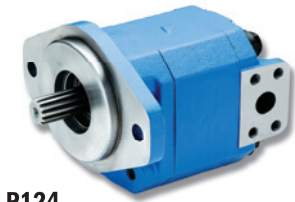
+ Maximum 3000 RPM for 5151 series.

The Sensible Choice

SLEEVE BUSHING PUMPS AND MOTORS

Specifications

Gear Width



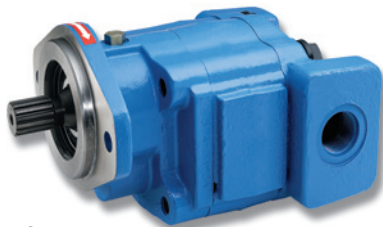
P124

Series		0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50
124	GPM/1000 RPM/Rated PSI	2.0	3.5	5.0	6.0	7.5	9.0	10.0		
	LPM/1000 RPM	8	13	19	23	28	34	38		
	IN ³	0.62	0.93	1.24	1.55	1.86	2.17	2.48		
	CC	10	15	20	25	30	35	40		
	Max RPM	3000	3000	3000	3000	3000	3000	3000		
	# Max PSI	3500	3500	3500	3500	3300	2900	2500		
	# Max Bar	241	241	241	241	227	200	172		
	* Motor/Input GPM	**	**	8.0	9.0	10.5	12.0	13.5		
	* Motor/Output in-lbs	**	**	660	825	930	955	945		
	* Motor/Output HP	**	**	10.5	13.0	15.0	15.0	15.0		



P197 Tandem

P197	GPM/1000 RPM/Rated PSI	**	**	7.0	9.0	11.0	13.0	15.0		
	LPM/1000 RPM	**	**	26	34	42	49	57		
	IN ³	0.99	1.48	1.97	2.46	2.96	3.45	3.94		
	CC	16.1	24.2	32.3	40.4	48.4	56.5	64.6		
	Max RPM	2400	2400	2400	2400	2400	2400	2400		
	# Max PSI	**	**	4000	4000	3750	3500	3250		
# Max Bar	**	**	276	276	259	241	224			



M257

257	GPM/1000 RPM/Rated PSI	**	**	9.0	12.0	14.5	17.0	19.5	22	25
	LPM/1000 RPM	**	**	34	45	55	64	74	83	95
	IN ³	1.29	1.93	2.57	3.21	3.86	4.50	5.14	5.78	6.43
	CC	21.1	31.6	42.1	52.6	63.2	73.7	84.2	94.8	105.3
	Max RPM	2400	2400	2400	2400	2400	2400	2400	2400	2400
	# Max PSI	4500	4500	4500	4500	3500	3250	3000	2750	2500
	# Max Bar	310	310	310	310	241	224	207	190	172
	+ Motor/Input GPM	**	**	14.5	17.5	20.5	23.5	26.0	29.5	31.5
	+ Motor/Output in-lbs	**	**	1250	1600	1950	2150	2250	2350	2350
	+ Motor/Output HP	**	**	19.5	25.5	31.0	34.0	36.0	37.5	37.5

*These motor specifications are given at 1000 RPM @ rated PSI.

**Consult Permco on these gear sizes.

#The information shown above represents the maximum continuous operating conditions.

+These motor specifications are given at 1000 RPM @ 3000 PSI for 1", 1.5", 1.75", and 2"; @ 2750 PSI for 2.25"; and @ 2500 PSI for 2.5"

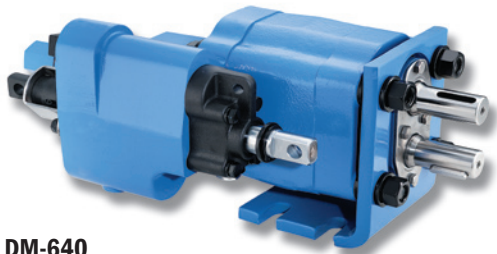
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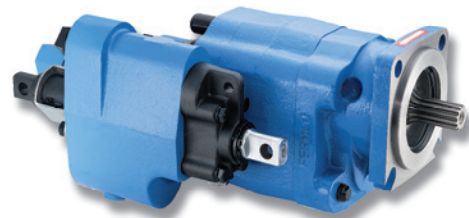
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DUMP PUMPS AND ACCESSORIES



DM-640

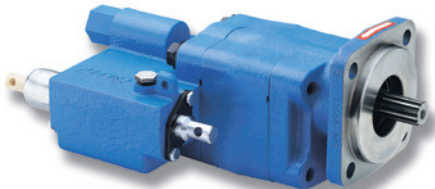
Pump/valve assembly for heavy and medium duty dump trucks and dump trailers



DMD-25

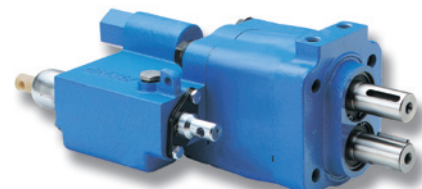
Series	IN ³ (CC)	GPM/900 RPM/ 2000 PSI	GPM/1200 RPM/ 2000 PSI	GPM/1500 RPM/ 2000 PSI
DM-512-20/DMD-20	5.12 (84.3)	17.5	24.0	30.5
DM-640-25/DMD-25	6.40 (105.4)	21.0	29.0	37.5

Permco Dump Pump Features ☒ Direct mount SAE "B" 4 bolt or twin shafted remote mount with bracket (DM-640) or built-in mounting bracket (DMR-400) ☒ Manual shift, "OEM" air shift (DM-640 and DMD-25 only), or after market air shift, each with full metering capabilities ☒ 100% factory tested ☒ Heavy duty "controlled stress" roller bearings ☒ Pump and cylinder protected in the raise and neutral position of the spool ☒ 2 or 3 line configurations available ☒ 2 extended studs for easy installation of pump support bracket on direct mount (DMD-20 and DMD-25 only) ☒ Built-in load check maintains dump body angle and is installed in the cylinder port for superior self-cleaning ☒ Built-in direct acting relief valve set at factory ☒ Neutral lock-out safety cap for use with pull-out cable ☒ High strength alloy steel gear and shaft set



DMD-400

Pump/valve assembly for medium and light duty dump trucks



DMR-400

Series	IN ³ (CC)	GPM/900 RPM/ 2000 PSI	GPM/1200 RPM/ 2000 PSI	GPM/1500 RPM/ 2000 PSI
DMR/DMD-300	3.0 (49.2)	10.0	14.0	17.5
DMR/DMD-400	4.0 (65.5)	13.5	19.0	24.0

Air Shift Controls and Towers



997-01043-8

The **997-01043** series towers come in either an 8" or 13" tower. The PTO is kicked out of gear when the pump lever is put into the "lower" position.



997-01055-8-C

The **997-01055** series towers come in either an 8" or 13" tower. It also comes with a PTO valve cutout for either of the popular PTO's. The air valve shown is supplied with the PTO.



P1229

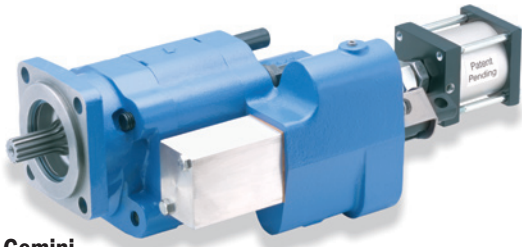
The **P1229** air valve controls both the Dump Pump and the PTO in one lever. There are options for detent of the lever controlling the pump and a PTO kickout. The valve can be ordered with a bracket for installation on an air seat.

The **997-00971A** is an after market air shift cylinder that fits the DMD-25 and DM-640 Dump Pump as well as all other units of similar design.



997-00971A

GEMINI DUAL-USE PUMPS



Gemini

Gemini Dual Use Pump Features: Designed to be used with dual use applications, typically a dump trailer and a live floor or goose neck Dual pressure relief valve: low for dump trailer, high for other application, each field adjustable Direct mount SAE "B" 4 bolt or twin shafted remote mount with bracket Heavy duty "controlled stress" roller bearings

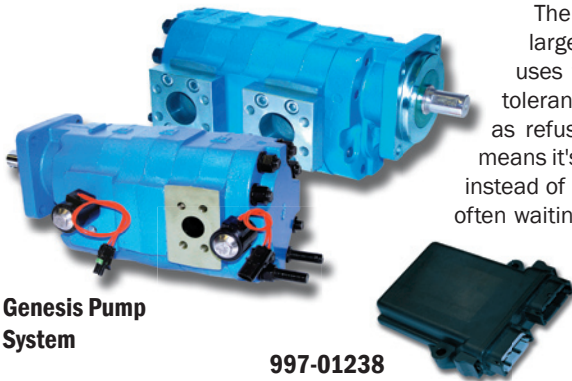
Series	IN ³ (CC)	GPM/900 RPM/ 2000 PSI	GPM/1200 RPM/ 2000 PSI	GPM/1500 RPM/ 2000 PSI	Max RPM	Max PSI
DG-20 / RG-20	5.12 (84.3)	17.5	24.0	30.5	1800	3200



997-01226-8

The **997-01226-8** air tower controls the pump/valve, PTO, air tailgate cylinder, and the high/low pressure setting on the relief valve for the dual pressure. The high pressure is only available when the tailgate is closed.

GENESIS: LOW RPM/FUEL SAVINGS



Genesis Pump System

997-01238

The **Genesis System** was designed for applications that require low RPM, large flows, and control of the hydraulic system. The Genesis System uses the proven technology and simplicity of the gear pump which is more tolerant of those rugged conditions normally found in mobile applications such as refuse and portable cement plants. The simplicity of the Genesis System means it's much easier to get service and parts from thousands of hydraulic shops instead of having to find expensive shops specializing in piston or vane pumps and often waiting for repairs. It is completely self-contained and does not require being integrated into the vehicle's electronic system, though signals from the body, transmission, or engine can be incorporated into the controls if desired. The control box is easily set with a laptop computer or PDA with Palm OS. Once set, the controls are tamperproof though they can be adjusted as often as desired.

VERSA-PAK/REFUSE SYSTEMS



Versa-Pak Unloading System

The **Versa-Pak Unloading System** limits the flow to the system while in use to prevent hydraulic over-speeding. While in the off mode the flow is diverted back to the tank at low pressures to control horsepower losses. The 997-01238 can also be incorporated to further protect the hydraulic system.

The **Versa-Pak Dry Valve System** incorporates an air operated dry valve which permits hydraulic operation while the vehicle is in motion. It reduces fuel consumption during the off mode and eliminates heat build-up associated with "live" systems in the on mode. The 997-01238 can also be incorporated to further protect the hydraulic system.



Versa-Pak Dry Valve System



CH Series Pump

The **CH Series Pump** is designed with two 1 1/8" keyed shafts and with a 1 1/2" NPT suction port and depending on the gear size either a 1" or 3/4" SAE O'ring discharge port.



The Sensible Choice



PermcO offers a complete line of hydraulic filters and tank strainers. Both 10 and 25 micron filter elements are available with filter heads ranging from 20 gallon with 3/4" NPT ports to 90 gallon with 1 1/2" split flange ports. 1/8" NPT gauges are optional.

PermcO's remote mounted **Relief Valve AZ5514J-100-25** or **AZ5514J-100-32** comes with 1" NPT ports. It is available with either 2500 or 3200 PSI maximum settings, and is field adjustable. It is easily mounted with 3 mounting holes and directly replaces common relief valves currently found from other manufacturers. The **AZ5514J-075-25** has 3/4" NPT ports and is without mounting holes.



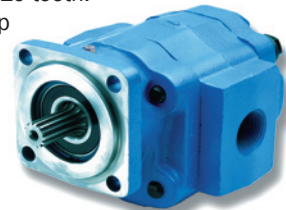
AZ5514J-100-25

PermcO offers **Port End Covers** for the P3000, P3100, P5000, and P5100 pumps which incorporate a built-in relief valve. Pressure settings are factory set at 2500 or 3200 PSI. Settings are field adjustable. The tank port on the P3000 and P3100 are either internally or externally exhausted. The P5000 and P5100 are externally exhausted only.



P5000/5100 Port End Cover with Relief Valve

Hydraulic Winch Motors are now available from PermcO. These motors are equipped with a special high tooth gear as opposed to the traditional 10 teeth. This allows for better start-up torque and less "torque ripple". They are available in the W3000/3100, W5000/5100, and W7500/7600 series.



W5100



FD3000

PermcO offers a complete line of hydraulic **Flow Dividers and Intensifiers**. FD3000/3100, FD5000/5100, and FD7500/7600 are available in the roller bearing series. Input flows up to 70 GPM per section with a maximum pressure drop of 2500 PSI.

PermcO uses only "controlled stress" roller bearings. They have been proven to last a minimum of **30% longer** than standard bearings under the same conditions. Along with the best bearings in the industry, we use only the best material available in all of our parts which assures you the most reliable pumps and motors available. PermcO has built a reputation on quality and service.



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