

MYERS® DP SERIES

High Pressure Reciprocating Plunger Pumps

Designed with Strength and Versatility

The DP Series plunger pump adds a new dimension of rugged versatility to Pentair's line of Myers® high pressure industrial pumps. In one power end, two fluid ends, the DP offers seven interchangeable plunger and seal packages, allowing complete hydraulic coverage between 1200 psi/120 gpm and 5500 psi/27 gpm. The DP handles liquids of PH4~11, up to 180°F (82°C) with a maximum inlet pressure of 100 psi. Optimum flow and pressure are easily converted, even in the field, by changing the plunger and seal kit. Two sets of different valve seats with different flow areas (valves A and B) fit into the same valve deck and are also interchangeable.

The DP Series combine Pentair's manufacturing expertise and understanding of applications to provide a pump with the strength and versatility for any demanding high pressure job.

Dimensional Data (For estimating only)

Pump Performance*								
Catalog Number***	Maximum Rated Capacity GPM (LPM)	Maximum Rated Pressure psi (Bar)	Maximum Rated Speed RPM/SPM	Plunger Size Inch (mm)	Maximum HP (kW)	Valve** (Set)	Fluid End Material	Fluid End Size
DP120-12	120 (454)	1,200 (82.7)	1800/456	2-5/8 (66.7)	99 (73.9)	A	Ductile Iron	A
DP90-18	88 (333)	1,700 (117.2)	1800/456	2-1/4 (57.2)	103 (76.8)	A	Ductile Iron	A
DP85-20	85 (322)	2,000 (137.9)	1800/456	2-1/4 (57.2)	117 (87.2)	A	Ductile Iron	A
DP80-20	79 (299)	2,000 (137.9)	1800/456	2-1/8 (54.0)	108 (80.5)	A	Ductile Iron	A
DP70-22	70 (265)	2,150 (148.3)	1800/456	2 (50.8)	103 (76.8)	A	Ductile Iron	A
DP55-28	53 (201)	2,800 (193.1)	1800/456	1-3/4 (44.5)	103 (76.8)	B	Ductile Iron	B
DP40-38	40 (151)	3,800 (262.1)	1800/456	1-1/2 (38.1)	102 (76.1)	B	Ductile Iron	B
DP28-55	27 (102)	5,500 (379.3)	1800/456	1-1/4 (31.8)	103 (76.8)	B	Ductile Iron	B

*Pump performance data are based upon 100% volumetric efficiency & 85% overall efficiency. ** Pump performance based on valve listed.

Fluid-End Components

1. Cylinder body of high-strength ductile iron.
2. Tungsten carbide coated, stainless steel plungers are superhard, nonscoring, with ground smooth surface of 12u.
3. High pressure plunger seals are spring-loaded, self-lubricated, braided packing where strength, lubricating qualities and heat dissipation are needed for various applications.

4. Seal housing of aluminum-bronze features easy and quick replacement of seals.
5. Spring-loaded center post valves have acetal valves and stainless steel seats.
6. Valve caps of ductile iron/stainless steel Buna-N O-ring seals and backup ring. Valves can be serviced individually.
7. Suction and discharge located for easy service. Large threaded suction openings on sides and front. Discharge openings are tapped.

Power-End Components

28 001 265 07 08 0 770.00 2 875 1200 07 6

27.2180084.087.791.595.298.9102.7



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