

P801 Hydraulic Pump SERIES

Hydraulic Power
Hydronic Power
Horse Power **HP³**

HYDRONIC

Hydraulic Pumps and Power Packs

This extremely compact series of pumps is for use with compressed air pressures from 20-100 psi and is used where high delivery rates of fluid are not required. Available in six pressure ratios, it can reach up to 6,500 psi hydraulic pressure and flows up to 2½ gpm. It may be mounted horizontally or vertically using suitable brackets, and can be fitted on an existing reservoir or supplied with our reservoirs ranging in size from 1/3 to 2½ gallon capacity.

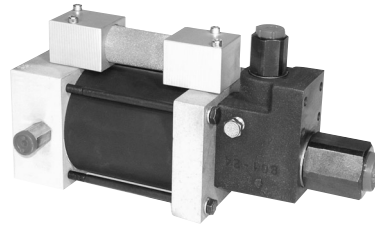
The cast steel alloy pump chambers are robust for all duties. The air drive cylinder is made from steel tubing, polished inside for the Teflon air piston seals. The action of the piston assembly is single acting. Air pressure actuates the pumping stroke and a coil spring returns the piston to its upper position. This movement takes place automatically with sensing pilots at each end of the stroke.

The stainless steel versions of this range make all models available for use with mains water supplies as well as deionized and demineralized water. These stainless steel versions make an excellent value choice for the optical and semiconductor markets.

The P801 Series is excellent for clamping, accumulator charging, filter presses, auxiliary power sources, valve actuators and many other high pressure, low flow hydraulic requirements.

Hydronic Corporation specializes in designing and manufacturing complete power units utilizing this series of pumps. Applications include material handling equipment, expanding mandrels and arbors, tire presses, valve actuators, bending machinery, workholding, clamping, and many other traditional fluid power applications.

P801 Series, Model P801-5 basic pump for wall mounting.



P801 Series, Model P801-42-N-R4 with 1/2 gallon tank.

Hydronic P801 Series Pumps

- High performance, single-acting pump
- Compact and rugged
- With or without reservoir (four different capacities)
- Can be used with water (INOX version)
- Can be wall mounted, vertically or horizontally, or tank top mounted
- Can be supplied as a complete system including valves, air preparation, etc.

P801 Pump Model	P801-5	P801-8	P801-16	P801-30	P801-42	P801-65
Air Pressure psi (bar)	20-100 psi (1½ - 7)					
Nominal Pressure Ratio	1 : 5	1 : 8	1 : 16	1 : 30	1 : 42	1:65
Max. Oil Pressure psi (bar)	500 (35)	800 (55)	1,600 (110)	3,000 (206)	4,200 (290)	6,500 (448)
Noise Level	78-80 dB @ 1meter					
Weight – Pump Only lbs. (Kg)	8 lbs. (3.6)					
Weight With Reservoir lbs. (Kg)	R3 = 13 lbs (6), R4 = 16 lbs (7), R15 = 22.5 lbs (10.5), R25 = 25 lbs (11.5)					

Note: Always fit an air filter/regulator with 40 micron rating and 15 scfm capacity. Slightly lower ratios can be expected at lower input air pressures.

Hydronic P801 Series Ordering Code

Select specifications from the table and build an ordering code number, as shown in the sample.

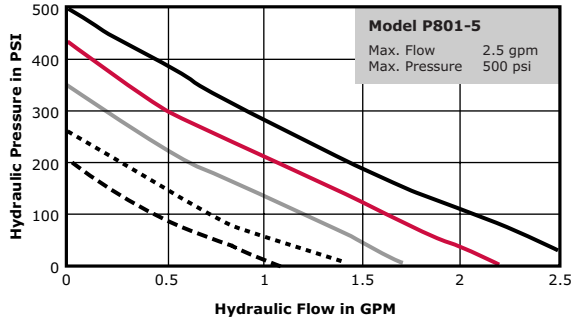
MODEL	RATIO	SEAL	MOUNTING
P801-5		N	O
P801-5 = 1:5		N = Nitrile	O = Basic Pump
P801-8 = 1:8		V = Viton	W = Wall Brackets
P801-16 = 1:16		INOX = Water applications	T = Tank Top Mounting
P801-30 = 1:30			R3 = 1/3 Gal. Cap Reservoir
P801-42 = 1:42			R4 = 3/4 Gal. Cap. Reservoir
P801-65 = 1:65			R15 = 1½ Gal. Cap. Reservoir
			R25 = 2½ Gal. Cap. Reservoir

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Flow and Pressure Performance Guides

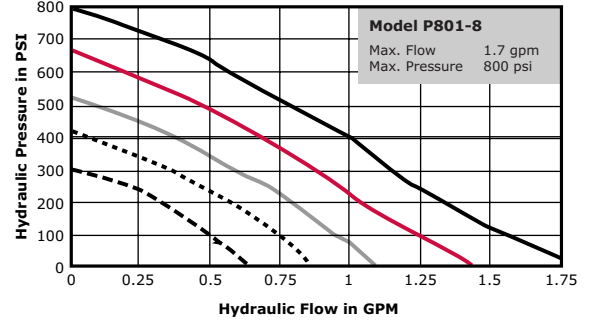
P801-5 Fluid Flow Against Pressure



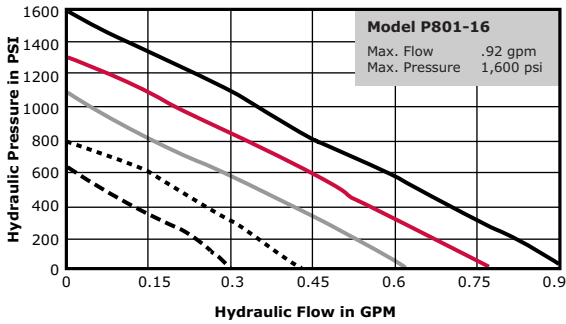
Air Pressure at:

- 100 psi ———
- 90 psi ———
- 75 psi ———
- 60 psi - - - - -
- 45 psi - - - - -

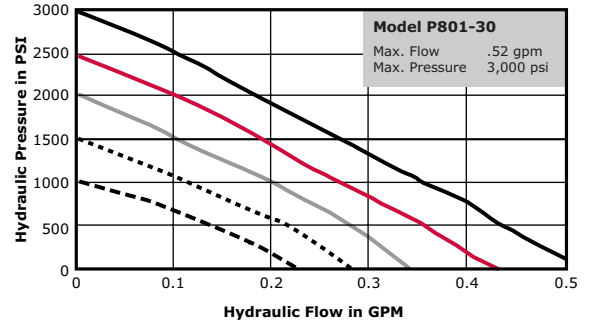
P801-8 Fluid Flow Against Pressure



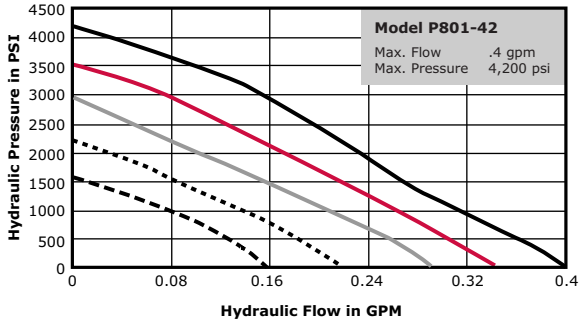
P801-16 Fluid Flow Against Pressure



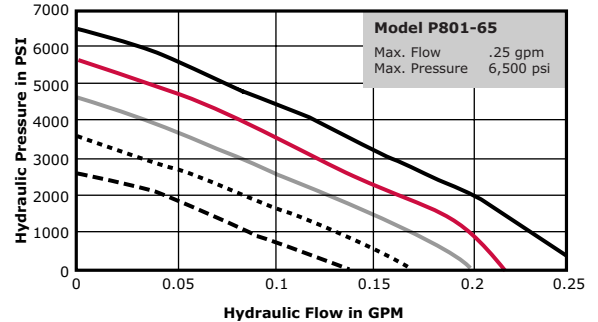
P801-30 Fluid Flow Against Pressure



P801-42 Fluid Flow Against Pressure



P801-65 Fluid Flow Against Pressure



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