

P825 Hydraulic Pump SERIES

Hydraulic Power
Hydronic Power
Horse Power **HP³**

HYDRONIC

Hydraulic Pumps and Power Packs

The four models in this ultimately smooth pumping system cover flows up to $\frac{3}{4}$ gpm and pressures up to 26,500 psi. The horizontally opposed hydraulic pistons are perfectly and uniquely balanced in this P825 Series high-pressure pump. The air motor piston assembly is guided by graphite impregnated bearing rings. Each of the two hydraulic pistons are sealed and supported by three bronze filled PTFE seals. The ultra strong components of the hydraulic chambers make the P825 Series ideal for long-term pressure sustaining applications such as burst testing and nondestructive testing up to 26,500 psi. Stainless steel versions are available for demineralized and deionized water for use on electrical discharge machines and in the semiconductor industry. The high flow rates and dual hydraulic pistons make the P825 a very robust power unit ideal for production line work in the assembly and fastening industries.

In common with all Hydronic Corporation products, lubricated air supplies are not required on the P825 Series; the carbon filled PTFE piston seals act as both seal and bearing. Available as a stand alone pumping unit, Hydronic Corporation can supply any of these models with reservoirs in various capacities, valve configurations for ultra high pressures and in stainless steel materials for water duty. Special quotations can be produced for specific applications, both to original equipment manufacturers and for individual users.



P825 Series, Model P825-65-N-0 basic pump unit

Hydronic P825 Series Pumps

- High efficiency air drive section
- High performance, double acting pump with opposing pumping elements used in high pressure hydraulic circuits for pressurization, resistance and deformation testing
- Double acting pump elements provide consistent fluid pressures
- Standard model is fitted for oil applications. Stainless steel (INOX) models are available for applications where water is used

P825 Pump Model	P825-65	P825-120	P825-170	P825-265
Air Pressure psi (bar)	20-100 psi (1 1/2-7)			
Pressure Ratio	1 : 65	1 : 120	1 : 170	1 : 265
Max. Oil Pressure psi (bar)	6,500 (450)	12,000 (827)	17,000 (1,172)	26,500 (1,827)
Noise Level	78-80 dB @ 1 meter			
Weight – Pump Only lbs. (Kg)	45 lbs. (20)			

Note: Always fit an air filter/regulator with 40 micron rating and 50 scfm capacity.

Hydronic P825 Series Ordering Code

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

MODEL	RATIO	SEAL
P825-65		N
P825-65 = 1:65		N = Nitrile
P825-120 = 1:120		V = Viton
P825-170 = 1:170		INOX = Water Applications
P825-265 = 1:265		E = EPR

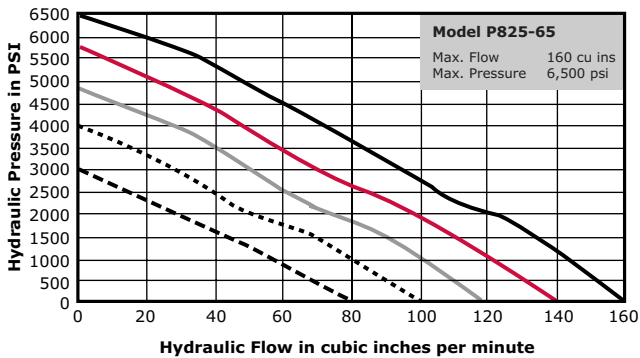
Hydronic Corporation specializes in designing and manufacturing complete power units utilizing this series of pumps. Applications include material handling equipment, expanding mandrels and arbors, tire presses, valve actuators, bending machinery, workholding, clamping, and many other traditional fluid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

P825 Hydraulic Pump SERIES

Hydraulic Power
Hydronic Power
Horse Power **HP³**

Flow and Pressure Performance Guides

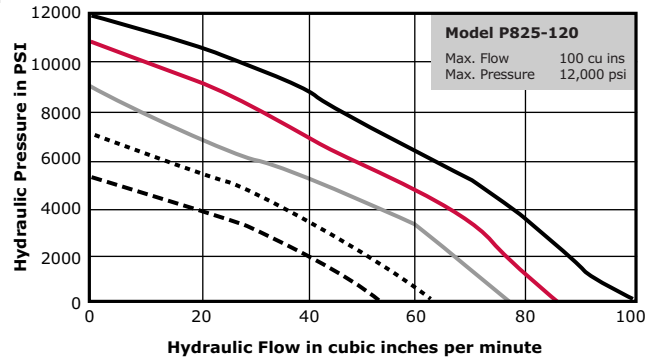
P825-65 Fluid Flow Against Pressure



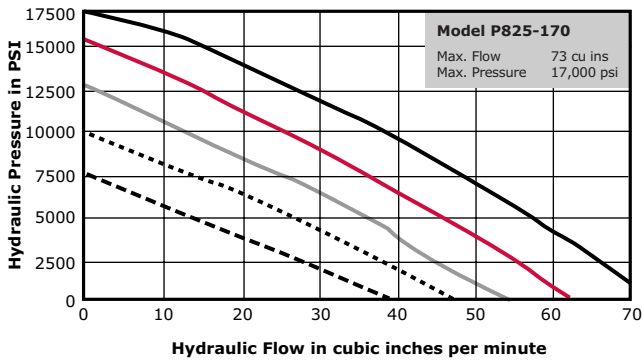
Air Pressure at:

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

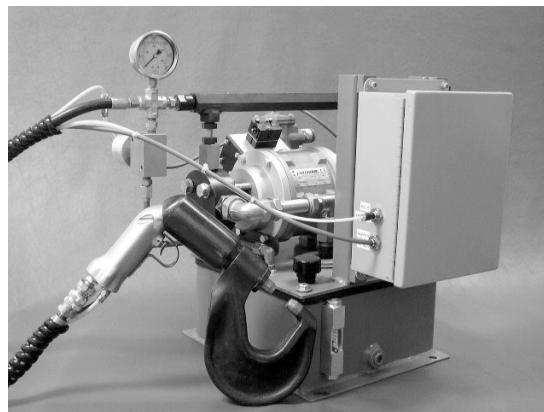
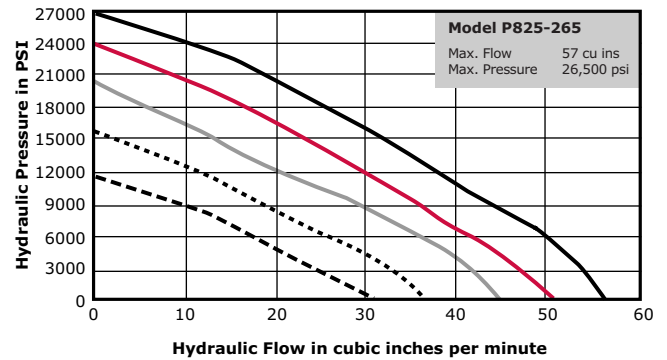
P825-120 Fluid Flow Against Pressure



P825-170 Fluid Flow Against Pressure



P825-265 Fluid Flow Against Pressure



P825 Series, Model P825-65-N-O
Used in power units for high speed production riveting



32613 Folsom • Farmington Hills, MI 48336
248-477-2288 • Fx: 248-893-3689 • www.hydrauliccorp.com

