

P6 Series High Flow Pumps Data Sheet

The P6 series pumps are heavy duty pneumatically driven, single air drive, double acting, reciprocating positive displacement pumps producing near continuous flows.

P6 Pumps are suitable and commonly used for fluid transfer, or flushing. The high flow rates along with the ATEX rating makes it suitable for use in Zone 1 rated areas for the transfer of hydrocarbons or for use in any hazardous areas for the transfer of most fluids. The air driven mechanism makes it suitable for use in almost any environment.

The P6 currently available in 2 sizes, P6-500-120mm or P6-600-150mm pistons. The P6 can achieve flow rates up to 4,600 bbls/day and pressures up to 1,636 psi.

All P6 series pumps are CE marked, ATEX compliant (94/9/EC) II 2 Gc T6 & NACE compliant as standard and suitable for H2S fluid service.

Pump Overview:

Air Motor:	Single air drive motor, hardened anodised aluminium air chamber, aluminium air motor piston, 316 stainless steel air motor end flanges, nitrile/viton seals. Auto moisture drain system for improved pump life		
Air Shuttle Assembly:	Hardened anodised aluminium cylinder, aluminium shuttle, HNBR seals.		
Hydraulic Cylinders:	316 stainless steel cylinders & internal components. (The Hydraulic cylinders are isolated from the main air motor to ensure no fluids can be transferred to the motor and exhausted to atmosphere)		
Hydraulic Pistons:	120mm, 150mm OD 316 SS with high velocity oxy fuel coating providing better chemical resistance.		
Main Hydraulic Seals:	Ultra High Molecular Weight Polyethylene (Tecafine (PE)) UHMWPE-10. (PTFE compound available)		
Check Valves:	316 stainless steel cylinder & internal components, 316 stainless steel ball & seat.		
Total Net Weight:	P6-500-120 460Kg	P6-600-150 630KG	Maximum Noise Level: 95 db

Pump Connection Sizes:

Air Inlet:	2" NPT (F)	Pilot Air Supply:	1/4" OD	Air Shuttle Exhaust:	2" NPT(f)
Fluid Inlet:	3" 600# RF flange	Fluid Outlet:	3" 600# RF flange		

Pump Performance:

Max Pump Air Supply:	100 psig.	Max Pilot Air Supply:	100 psig.
Max Air Consumption:	P6-500-120 600 scfm. P6-600-150 800 scfm	Air Quality Required:	Cooled & dry plant air.
Pump Ratio:	120mm: 16.3 - 1	150mm: 15 - 1	
Max Discharge Pressure Static:	120mm: 1,636 psig	150mm: 1,500 psig	
Discharge Volume per Stroke:	120mm: 2,450cc	150mm: 3,760cc	
Max Discharge Flow @ 0 psig:	120mm: 403 ltr/min	150mm: 508 ltr/min	

Air input to hydraulic discharge pressure static/stall values.

Pump Model	Hydraulic Piston Diameter	Pump Ratio	20 psig Air Supply	40 psig Air Supply	60 psig Air Supply	80 psig Air Supply	100 psig Air Supply
P6-500-120D	120mm	16.3 - 1	327	654	982	1,309	1,636
P6-600-150D	150mm	15 - 1	300	600	900	1,200	1,500