

# 2:1 Ratio High Pressure

## SPECIALTY PUMP

The high pressure pump was developed for applications requiring fluid pressures in excess of the 100 psi developed by traditional pumps. Compared to a standard diaphragm pump, the 2:1 ratio high-pressure pump can produce up to 200 psi, at about half the flow rate.

The 2:1 ratio is accomplished by using the effective surface area of both diaphragms to double the output pressure.

### 2:1 Ratio High-Pressure Pump

- Bolted construction for leak free integrity.
- Simul-shift and quick dump valve technology for stall free / ice free performance.
- Convolutated diaphragms for long life.
- Modular major valve for ease of repair.

### Applications:

High viscosity fluids  
High solids fluids  
Charging filter presses  
High head / back pressure



Model	Maximum Gallons GPM (Liters)	Displacement Cycles Per Gallons @ 100 PSI (Liters)	Weight (kg)	Suspended Solids Max. Dia. in. (mm)	Maximum Outlet pressure PSI (bar)
2:1 Ratio 1 1/2" Diaphragm Pump	63 (238.48)	0.3 (1.17) for 1 1/2"	88 (39.9)	1/4 (6.4)	200 (13.8)
2:1 Ratio 2" Diaphragm Pump	92 (348.25)	0.64 (2.65) for 2"	146 (66.2)	1/4 (6.4)	200 (13.8)
2:1 Ratio 3" Diaphragm Pump	160 (605.6)	1.4 (5.3) for 3"	268 (121.6)	3/8 (9.5)	200 (13.8)

### Ordering

Position	1	2		3				4	5	6		7
Example:	PHXX	F	-	X	S	P	-	S	X	X	-	C
Position 1 Model Series	Position 2 Center Section	Position 3 Connection			Position 4 Seat Material	Position 5 Ball Material	Position 6 Diaphragm Material		Position 7 Revision Level			
PH15 - 1 1/2" PH20 - 2" PH30 - 3"	F - Conductive Polypropylene/ Stainless Steel	1-1/2" (PH15F) A - 1-1/2 NPTF B - 1-1/2 BSP parrallel  2" (PH20F) A - 2 - 11-1/2 NPTF-1 B - Rp 2 (2 - 11 BSP parrallel)  3" (PH30F) A - 3 - 8 NPTF-1 B - Rp 3 (3 - 11 BSP parrallel) F - 3" ANSI /DIN Flange			S - Stainless Steel	A - Santoprene® T - PTFE C - Hytrel®	A - Santoprene® C - Hytrel® L - Long-Life PTFE T - PTFE/Santoprene®		A - 1 1/2" B - 2" C - 3"			

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### Accessories

	PH15 - 1 1/2"	PH20 - 2"	PH30 - 3"
Air Line Kit	66084-1	66109	66109
Air Section Service Kit	637389	637369	637369
Fluid Section Service Kit	637445-XX	637446-XX	637441-CC