

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.
- Convoluted 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 |

