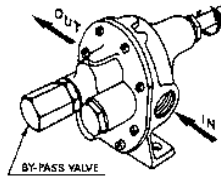




WATER BOOSTER PUMP PART NUMBER 4025 AIR DRIVE, HIGH PRESSURE

Pump:

Rotary Gear, positive displacement flow.
 Maximum discharge pressure: 100 PSI
 Maximum suction lift: 20 ft.
 Operating temperature range: -40F° to 400° F
 Adjustable discharge pressure relief
 Pipe size: 3/4 inch



The by-pass valve is used to regulate and relieve discharge pressure.

To *increase pressure*, loosen locknut and turn by-pass adjusting screw *clockwise*.

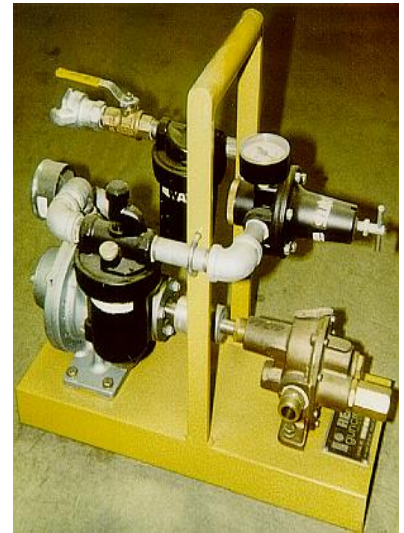
Note: By-pass is factory set at 50 PSI.

Drive:

The *REED*, 4025 water pump is air motor driven and equipped with an air filter, air regulator, and air lubricator.

Maximum recommended operating pressure (air) is 100 PSI.

Air Lubricator: Use S.A.E. No. 10 detergent motor oil, one drop every 15 to 30 seconds.



Complete Weight 68 lbs
Pump: Cube 1.5 Cu. Ft.

Capacity: Water 60°F

| R.P.M | FT. HD. P.S.I. | 0 | 46 | 92 | 138 | 184 | 231 | 290 | 346 |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 0 | 20 | 40 | 60 | 80 | 100 | 125 | 150 |
| 400 | G.P.M. | 4.0 | 3.45 | 2.9 | 2.35 | 1.50 | 1.30 | 1.30 | 1.00 |
| | H.P. | .50 | .23 | .30 | .39 | .55 | .65 | .70 | .90 |
| | MOTOR | 1/4 | 1/4 | 1/3 | 1/2 | 1/2 | 3/4 | 3/4 | 1 |
| 600 | G.P.M. | 6.3 | 5.78 | 5.26 | 4.74 | 4.22 | 3.95 | 3.50 | 3.10 |
| | H.P. | .25 | .30 | .40 | .65 | .75 | .95 | 1.15 | 1.40 |
| | MOTOR | 1/4 | 1/3 | 1/2 | 3/4 | 3/4 | 1 | 1 1/2 | 1 1/2 |
| 800 | G.P.M. | 8.58 | 8.18 | 7.78 | 7.38 | 6.98 | 6.57 | 4.60 | 6.20 |
| | H.P. | .30 | .40 | .58 | .85 | .93 | 1.15 | 1.40 | 1.70 |
| | MOTOR | 1/3 | 1/2 | 3/4 | 1 | 1 | 1 1/2 | 1 1/2 | 2 |
| 1000 | G.P.M. | 10.90 | 10.51 | 10.12 | 9.72 | 9.33 | 8.93 | 8.00 | 7.90 |
| | H.P. | .40 | .60 | .70 | .90 | 1.1 | 1.38 | 1.60 | 1.92 |
| | MOTOR | 1/2 | 3/4 | 3/4 | 1 | 1 | 1 1/2 | 2 | 1 |
| 1200 | G.P.M. | 13.33 | 12.94 | 12.55 | 12.16 | 11.76 | 11.37 | 11.20 | 11.10 |
| | H.P. | .50 | .70 | .85 | 1.08 | 1.35 | 1.65 | 1.90 | 2.20 |
| | MOTOR | 1/2 | 3/4 | 1 | 1 | 1 1/2 | 2 | 2 | 3 |
| 1600 | G.P.M. | 18.17 | 17.79 | 17.41 | 17.03 | 16.65 | 16.28 | 16.10 | 16.00 |
| | H.P. | .70 | .91 | 1.20 | 1.50 | 1.80 | 2.14 | 2.50 | 2.90 |
| | MOTOR | 3/4 | 1 | 1 1/2 | 1 1/2 | 2 | 2 | 3 | 3 |
| 1725 | G.P.M. | 19.85 | 19.48 | 19.11 | 18.74 | 18.37 | 18.00 | 17.70 | 17.40 |
| | H.P. | .80 | 1.10 | 1.42 | 1.85 | 2.18 | 2.65 | 3.00 | 3.60 |
| | MOTOR | 1 | 1 | 1 1/2 | 2 | 2 1/2 | 3 | 3 | 5 |

H.P. = ACTUAL HORSEPOWER
 MOTOR = CONVENIENT FRACTIONAL SIZES
 G.P.M. = GALLONS PER MINUTE
 P.S.I. = LBS. PER SQUARE INCH PRESSURE
 FT. HD. = EQUIVALENT PRESSURE IN FEET OF WATER
 R.P.M. = REVOLUTIONS PER MINUTE

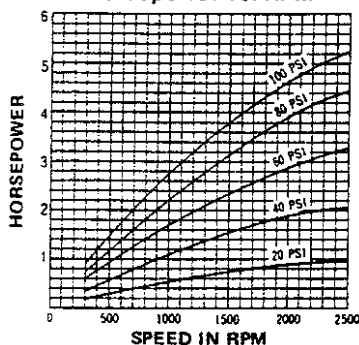
*CONSULT FACTORY FOR PRESSURES OVER 100 P.S.I.

Operational Note:

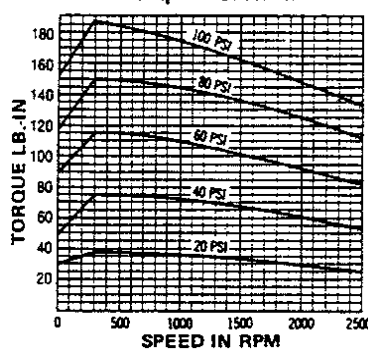
- Gear pumps are self-priming, however, on initial or dry start-up, it is recommended that gears be wet.
- Service life of pump will be increased if liquid pumped is clean and has lubricity valve
- When possible, flush pump after each use

Air Motor Data:

Horsepower vs. RPM



Torque vs. RPM



Air Consumption vs. RPM

