

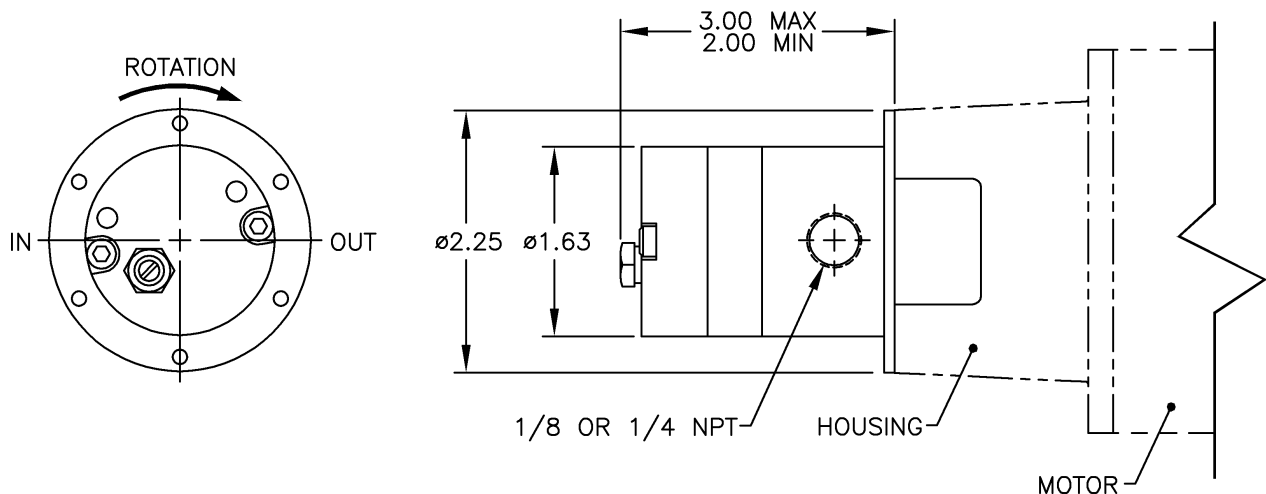
Pump Details

- Magnetic Coupled External Gear Pump
- Non-Pulsing Flow
- Positive Displacement
- Accurate
- Leak Free
- Chemical Resistant
- Long Life



Applications

Tuthill Pump Group specializes in OEM applications. All pumps have a wide range of options. Consult factory for other options and performance requirements. Laboratory Equipment, Water Purification, Heat Transfer, Lubrication, Water Treatment, Lubrication, Fluid Transfer, Recirculation, Cooling, Chemical Metering, Fluid Sampling, Temperature Control, Additive Delivery, Proportioning, Chemical Handling, Refrigerant, Liquid Chromatography, Laser, Oil Filtration, Oil Filtration, Acids, Heat Transfer, X-Ray Equipment, etc.



General Specifications

| | | | |
|-------------------------------|---------------------------------|---------------------------|--|
| Flow Rates | < 1 to 121 GPH (< 4 to 458 LPH) | Metal Wetted Parts | 316 Stainless Steel, Titanium, or Hastelloy C276 |
| Temperatures | -50 to 350°F (-46 to 176°C) | Ports | 1/8 - 27 NPT or 1/4 - 18 NPT |
| Differential Pressures | 250 PSI (17.2 bar) | Speed | 5,000 RPM maximum |
| System Pressures | 500 PSI (34.5 bar) | Service Life | Up to 20,000 hours + based on water |
| Viscosity | 0.3 to 2000 cps + | Suction Vacuum | 28.5" Hg (724 mm Hg) |
| Magnet Torque | 15 to 240 in-oz | Self Priming | Yes, wetted |
| Magnet Materials | Ceramic or Samarium Cobalt | Size | 1.6" diameter pumphead |

Flow @ 3500 RPM

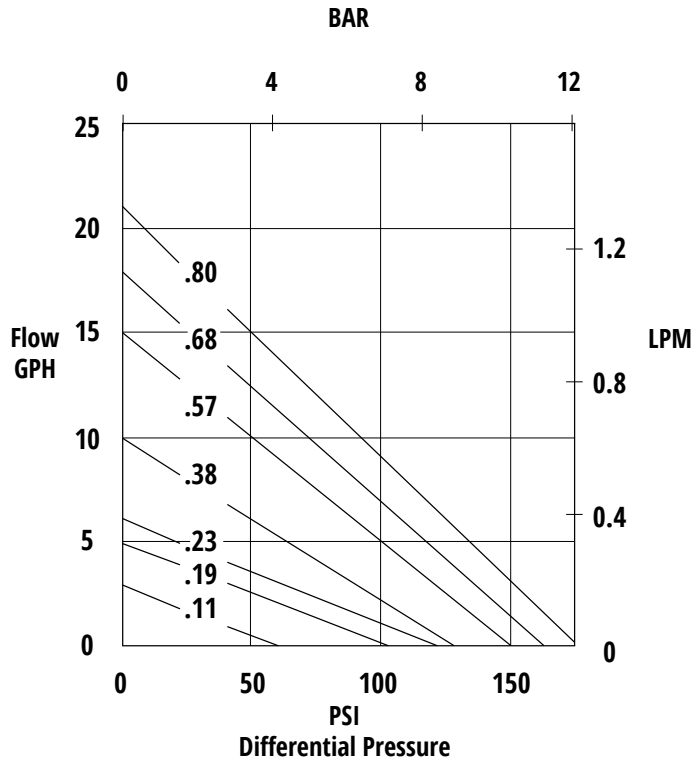
| Model ml/rev | GPH @ 0 PSI | LPH @ 0 bar | GPH @ PSI Differential Pressure | LPH @ bar Differential Pressure | Continuous Duty Limit | | Intermittent Duty Limit | |
|-----------------|----------------|----------------|---------------------------------------|---------------------------------------|-----------------------|------|-------------------------|------|
| | | | | | PSI | bar | PSI | bar |
| .11 | 6 | 22 | .2 @ 150 | .75 @ 10.3 | 250 | 17.2 | 250 | 17.2 |
| .19 | 10 | 38 | .7 @ 250 | 2.6 @ 17.2 | 250 | 17.2 | 250 | 17.2 |
| .23 | 12 | 46 | 2 @ 250 | 7 @ 17.2 | 250 | 17.2 | 250 | 17.2 |
| .38 | 20 | 76 | 5 @ 250 | 19 @ 17.2 | 250 | 17.2 | 250 | 17.2 |
| .57 | 30 | 114 | 9 @ 250 | 34 @ 17.2 | 250 | 17.2 | 250 | 17.2 |
| .68 | 36 | 136 | 17 @ 250 | 64 @ 13.8 | 200 | 13.8 | 250 | 17.2 |
| .80 | 42 | 160 | 21 @ 200 | 79 @ 13.8 | 200 | 13.8 | 250 | 17.2 |
| .99 | 52 | 198 | 36 @ 140 | 136 @ 9.7 | 140 | 9.7 | 200 | 13.8 |
| 1.2 | 63 | 239 | 45 @ 140 | 170 @ 9.7 | 140 | 9.7 | 200 | 13.8 |
| 1.3 | 69 | 259 | 51 @ 125 | 193 @ 8.6 | 125 | 8.6 | 175 | 12.1 |
| 1.6 | 84 | 319 | 68 @ 100 | 257 @ 6.9 | 100 | 6.9 | 150 | 10.3 |
| 2.0 | 105 | 399 | 86 @ 100 | 325 @ 6.9 | 100 | 6.9 | 150 | 10.3 |
| 2.3 | 121 | 459 | 96 @ 100 | 363 @ 6.9 | 100 | 6.9 | 150 | 10.3 |

Performance Estimate Based on 68°F (20°C) Clean Deionized Water @ 1.0 centipoise fluid viscosity

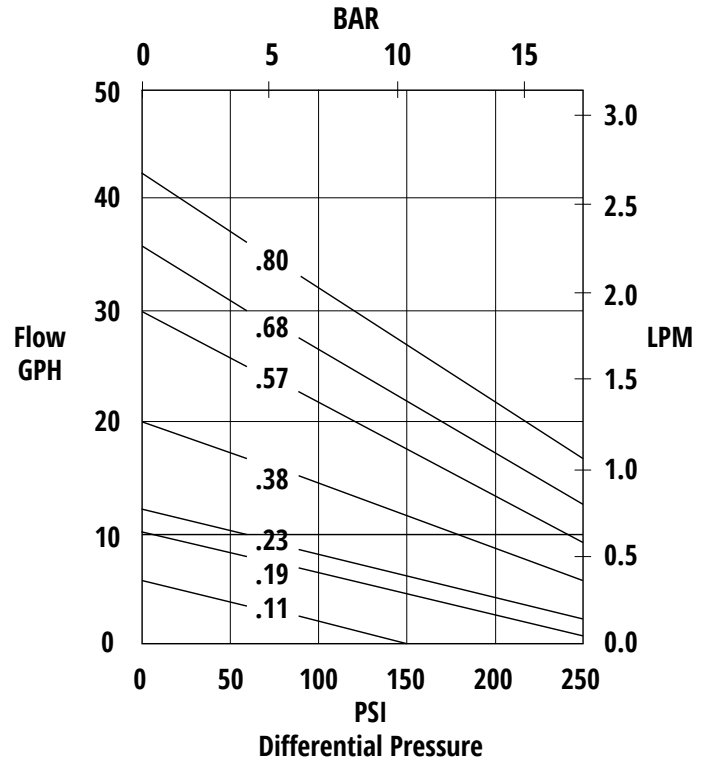
Materials of Construction

| | |
|--|--|
| Metal Wetted Parts | 316 Stainless Steel, Hastelloy C276, or Titanium |
| Gears & Bearings | PPS (Polyphenylene Sulfide), PEEK (Polyetheretherketone), or PTFE |
| O-Rings | Viton or PTFE |
| Ports | 1/8 NPT or 1/4 NPT |
| Magnet Shrouds | Ceramic Magnets (stronium ferrite) may be O-Ring seal shrouded; Samarium Cobalt Magnets are Metal Laser Welded |
| Magnet Torque | 15 in/oz, 30 in/oz, 50 in/oz or 240 in/oz |
| Bypass | Full flow externally adjustable bypass option available |
| Suction Vacuum | Pumps self prime when wetted with operating fluid to 28.5 Hg" (724mm Hg). Dry lift not recommended. Fluid viscosity, temperature and pressure may affect the performance. |
| Motors | AC, DC, BLDC, Air, Variable Speed or Motor Mate Adapter Kits |
| Operating Temperatures above 140 °F (60 °C) | In the D Series Product line we offer special sizing option for operating at temperatures above 140 °F (60 °C). Consult factory for details. |
| Gear & Bearing Material Temperature Limit | PPS limit is approximately 250 °F (121 °C) PEEK, Carbon and Metal limits are approximately 350 °F (176 °C) If possible, for temperatures above 250 °F (121 °C) Carbon bearings should be selected. |

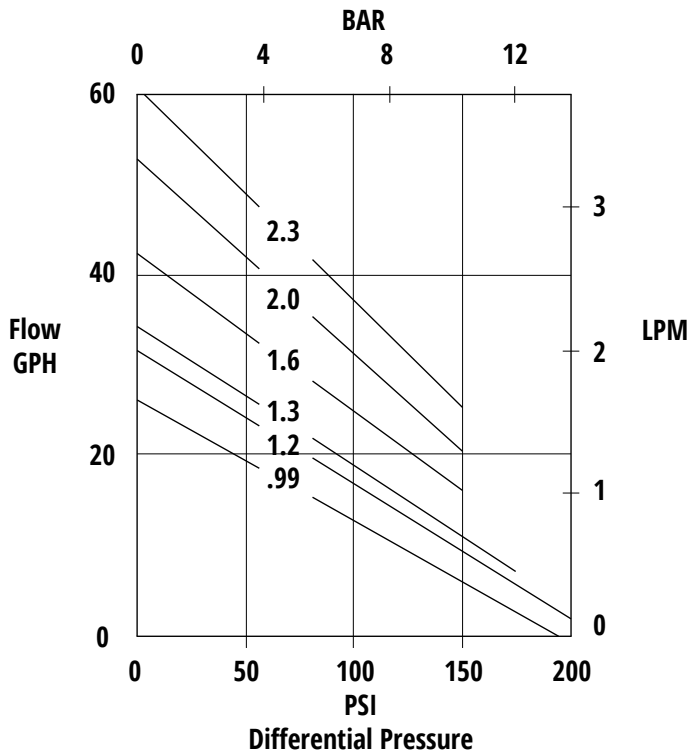
1750 RPM



3500 RPM



1750 RPM



3500 RPM

