

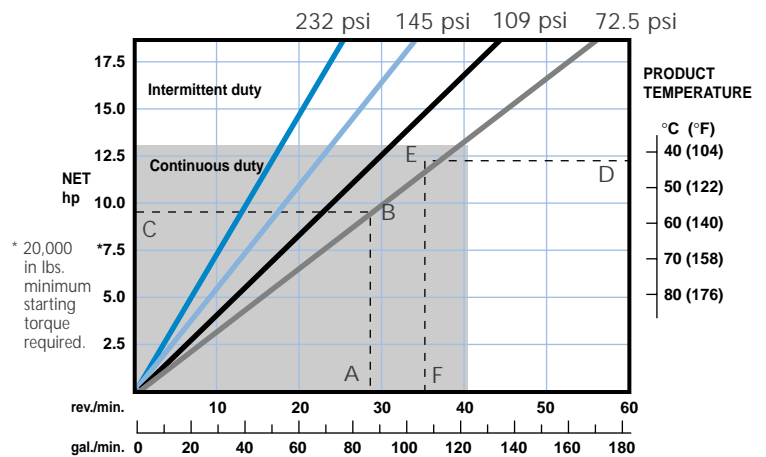


SPX80 High-Pressure Hose Pumps

Features and Benefits

- High-strength, twin-bearing hub integrated into the pumphead
- Rotor always fully and centrally supported by its own bearings
- Fail-safe shaft design
- New flat shim and improved epoxy shoe design
- Faster hose changing and improved sealing
- Easy access to shims and shoes
- Unique buffer zone provides protective barrier between pumphead and gearing
- Patented direct-coupled design
- Ultra compact planetary gearing
- No drive alignment for faster set-up
- No coupling or baseplate for compact footprint
- Adapter available for fitting hydraulic or pneumatic motors
- Improved frame design
- Increased corrosion resistance
- Compact design, low maintenance,
- Two year warranty

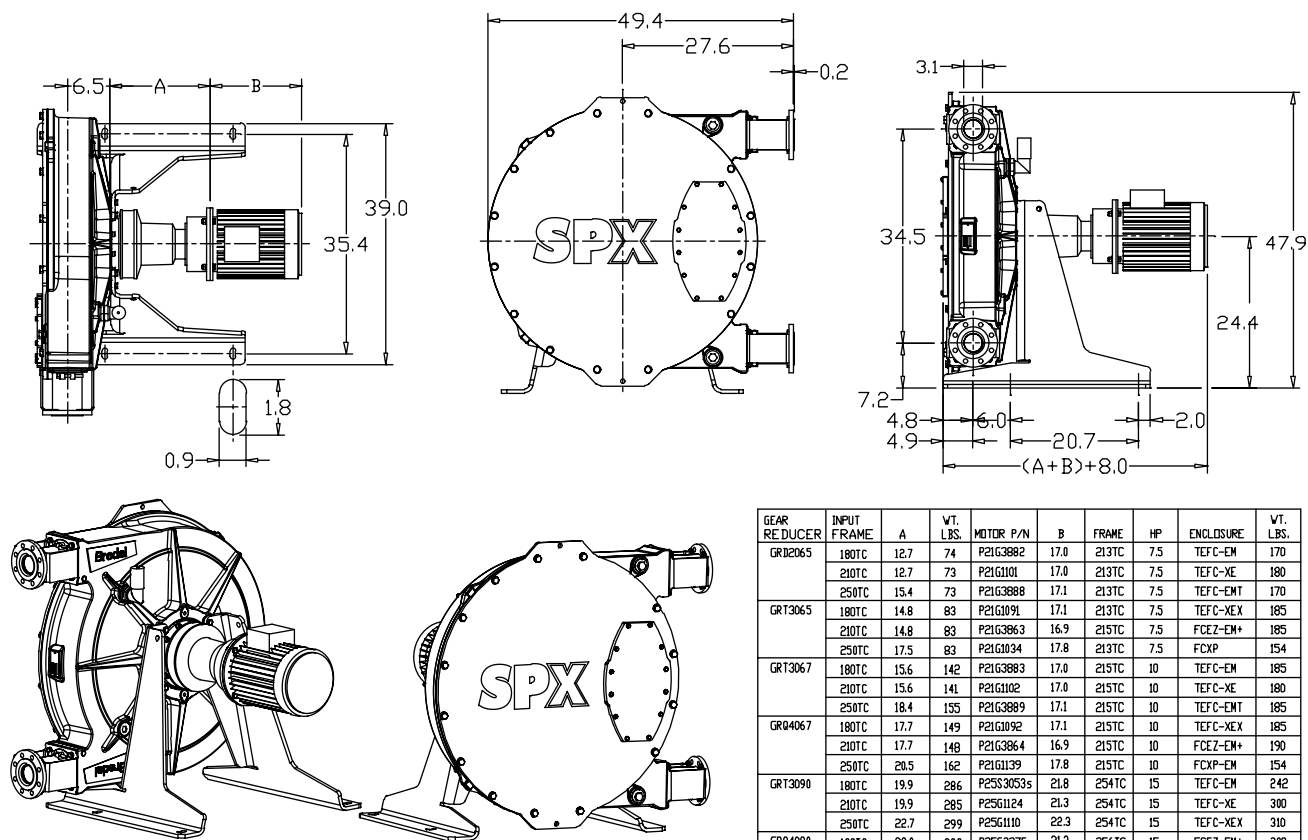
Performance Chart



How to calculate speed/horsepower

- A Flow required, indicates pump speed
- B Calculated discharge pressure
- C Horsepower required
- D Fluid temperature
- E Calculated discharge pressure
- F Maximum recommended pump speed**

** For maximum hose life, speed point (A) should be lower than temperature adjusted speed point (F). See example points (A) thru (F).



NOTES:

1. ALL DIMENSION ARE FOR REFERENCE ONLY.
2. WHEN INSTALLING, ALLOW 81-109" LINEAR CLEARANCE TO FLANGE FOR HOSE CHANGING

| GEAR REDUCER | INPUT FRAME | A | WT. LBS. | MOTOR P/N | B | FRAME | HP | ENCLOSURE | WT. LBS. |
|----------------|-------------|------|----------|-----------|------|-------|-----|-----------|----------|
| GRD2065 | 180TC | 12.7 | 74 | P21G3882 | 17.0 | 213TC | 7.5 | TEFC-EM | 170 |
| | 210TC | 12.7 | 73 | P21G1101 | 17.0 | 213TC | 7.5 | TEFC-XE | 180 |
| | 250TC | 15.4 | 73 | P21G3888 | 17.1 | 213TC | 7.5 | TEFC-EMT | 170 |
| GRT3065 | 180TC | 14.8 | 83 | P21G1091 | 17.1 | 213TC | 7.5 | TEFC-XEX | 185 |
| | 210TC | 14.8 | 83 | P21G3863 | 16.9 | 213TC | 7.5 | FCEZ-EM+ | 185 |
| | 250TC | 17.5 | 83 | P21G1034 | 17.8 | 213TC | 7.5 | FCXP | 154 |
| GRT3067 | 180TC | 15.6 | 142 | P21G3883 | 17.0 | 213TC | 10 | TEFC-EM | 185 |
| | 210TC | 15.6 | 141 | P21G1102 | 17.0 | 213TC | 10 | TEFC-XE | 180 |
| | 250TC | 18.4 | 135 | P21G3889 | 17.1 | 213TC | 10 | TEFC-EMT | 185 |
| GRQ4067 | 180TC | 17.7 | 149 | P21G1092 | 17.1 | 213TC | 10 | TEFC-XEX | 185 |
| | 210TC | 17.7 | 148 | P21G3864 | 16.9 | 213TC | 10 | FCEZ-EM+ | 190 |
| | 250TC | 20.5 | 162 | P21G1139 | 17.8 | 213TC | 10 | FCXP-EM | 154 |
| GRT3090 | 180TC | 19.9 | 286 | P25G3053s | 21.8 | 254TC | 15 | TEFC-EM | 242 |
| | 210TC | 19.9 | 285 | P25G1124 | 21.3 | 254TC | 15 | TEFC-XE | 300 |
| | 250TC | 22.7 | 299 | P25G1110 | 22.3 | 254TC | 15 | TEFC-XEX | 310 |
| GRQ4090 | 180TC | 22.0 | 292 | P25G3375 | 21.3 | 256TC | 15 | FCEZ-EM+ | 190 |
| | 210TC | 22.0 | 291 | P25G1029 | 21.3 | 254TC | 15 | FCXP-EM | 290 |
| | 250TC | 24.7 | 305 | P25G3055a | 21.8 | 256TC | 20 | TEFC-EM | 348 |
| SPX80 Pumphead | | 1493 | | | | | | | |
| | | | | P25G3376 | 21.3 | 256TC | 20 | FCEZ-EM+ | 310 |

Note: Dimensions shown are based on the standard pump and motor configuration. Overall length may vary depending on actual motor selection.

SPX80 High-Pressure Hose Pumps

Technical Specifications

- Displacement: 3.09 gal/rev
- Supply: 230/460 or 575 three phase
- Operating Speeds: Up to 40 rpm continuous
Up to 50 rpm intermittent
- Fluid Temperature Range: -4° to 175°F
- Hose Lubricant Required: 10.6 gallons
- Flow Range: Up to 155 gpm
- Discharge Pressure: Up to 232 psi
- Suction pressure: 28 ft. lift to 23 psi
- Available Hose Materials: Natural Rubber, BUNA N, BUNA K, EPDM, Hypalon (pending)
- Available Insert Materials: Polypropylene, 316 SS, PVDF, PVC
- Fittings: 3" 150# Flange

Materials of Construction

- Pumphead: Cast iron
- Rotor: Cast iron
- Cover: Mild steel
- Hub: Cast iron
- Shoes: Epoxy
- Flanges and Flange Brackets: Galvanized steel or 304 SS
- Frame: Galvanized steel or 304 SS
- Hardware: Zinc plated steel or 304 SS
- Shaft: Alloy steel
- Shims: 316 SS
- Seals: NBR

The information contained in this document is believed to be correct, but Watson-Marlow/Bredel Pumps accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.



Watson-Marlow, Inc.

37 UPTON TECHNOLOGY PARK, WILMINGTON, MA 01887-1018
 TEL: 800-282-8823, 978-658-6168 / FAX: 978-658-0041
<http://www.watson-marlow.com>