

Power Sections

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| Stator Specifications | | | | | |
|--|-----------------|--|--|--|--|
| | | | | | |
| Overall Length (in.) | 235.8 [5989 mm] | | | | |
| Tube O.D. (in.) | 6.93 [176 mm] | | | | |
| Tube I.D. (in.) | 5.50 [140 mm] | | | | |
| Rubber Cut Back Top (in.) | 10.0 | | | | |
| Rubber Cut Back Bottom (in.) | 10.0 | | | | |
| Weight (kg) | 335 | | | | |
| Tube Material | 4140-4145 | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| To be threaded and ID Banded by customer | | | | | |

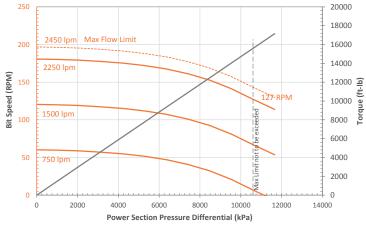
| Rotor Specifications | | | | | |
|----------------------------|-----------------|--|--|--|--|
| | | | | | |
| Overall Length (in.) | 228.0 [5790 mm] | | | | |
| Contour Length (in.) | 221 [5612 mm] | | | | |
| Major Diameter (in.) | Call Spira | | | | |
| Eccentricity (in.) | Call Spira | | | | |
| Head Diameter (in.) | 4.000 | | | | |
| Bored Weight (kg) | 249 | | | | |
| Solid Weight (kg) | 340 | | | | |
| Material | 17-4PH | | | | |
| Coating option 1 | Chrome | | | | |
| Coating option 2 | Carbide | | | | |
| To be threaded by customer | | | | | |

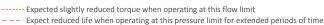
| Performance Specifications | | | | | | |
|----------------------------|-----------------|--|--|--|--|--|
| renormance specifications | | | | | | |
| = | 750 0450 | | | | | |
| Flow Range (lpm) | 750 - 2450 | | | | | |
| Speed Range (RPM) | 60 - 180 | | | | | |
| Torque Slope (ft-lb/kPa) | 1.470 | | | | | |
| Rotation (rev/l) | 0.080 | | | | | |
| Stall Torque (ft-lb) | 21,050 | | | | | |
| | | | | | | |
| Operating Parameters | | | | | | |
| Max Diff Pressure (kPa) | 10,700 | | | | | |
| Torque (ft-lb) | 15,500 | | | | | |
| Flow Rate (lpm) | 2,250 | | | | | |
| Full Load RPM | 127 at 2250 lpm | | | | | |

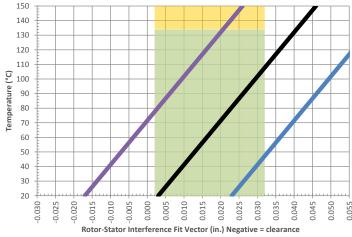
| Minor Diameter Fit Details (at 20°C) | | | | | | | |
|--------------------------------------|---------------------|------------------|---------------------|------------------|----------------|--|--|
| | Nominal Fit (in.)** | Minor Dia (in.)* | Nominal Fit (in.)** | Minor Dia (in.)* | Operating Temp | | |
| Size Band | Vector Measurements | | True Size Las | ser Measurements | Optimal | | |
| 1.0T | - | - | - | - | - | | |
| 0.5T | 0.013 | 3.825 | 0.017 | 3.821 | 30 - 50 °C | | |
| STD | 0.003 | 3.835 | 0.007 | 3.831 | 45 - 75 °C | | |
| 0.5L | - | - | - | - | - | | |
| 1.0L | - | - | - | - | - | | |
| 1.5L | - | - | - | - | - | | |
| 2.0L | - | - | - | - | - | | |
| Minor Shrinkage (in./°C) | | | 0.00033 | | | | |

All default tolerances are +/- 0.015 unless otherwise explicitly agreed upon with Spira Systems. Call for availability of sizes not listed.

^{***}Best operating temperatures are based on new stators subject to normal thermal expansion conditions. Operators may wish to consider swell and run life when selecting sizes.







1. Choose desired operating temperature

2. Read across to middle of shaded region

Follow *slope* down to room temperature to determine which fit to order



1L Size Band
STD Size Band

1T Size Ban

Performance curves are for reference only. Actual power section performance may vary depending on operating conditions (e.g. chosen rotor/stator interference fit, possible rubber swelling by drilling fluid, rotor and stator wear, actual downhole temperature, actual stator temperature, physical and chemical properties of the drilling fluid and other factors encountered downhole). The torque may exceed that specified for the connected components. Operating above the recommended limits may result in damage to the power section and connected components which will be the liability of the operator. Data subject to change without notice. Visit www.spirasystems.com for most up to date information.

^{*}Approximate Vector/laser gauge conversion: 0.004 ± 0.005

^{**}Negative fits indicate clearance fit at room temperature using nominal new rotor