

## Power Sections

22 East Lake Crescent N.E., Airdrie, Alberta, Canada, T4A 2H3  
 Ph: (587) 775-7777  
 www.spirasystems.com



Stator Specifications	
Overall Length (in.)	203.5 [5169 mm]
Tube O.D. (in.)	6.50 [165 mm]
Tube I.D. (in.)	5.00 [127 mm]
Rubber Cut Back Top (in.)	8.0
Rubber Cut Back Bottom (in.)	8.0
Weight (kg)	380
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
Overall Length (in.)	194.3 [4934 mm]
Contour Length (in.)	188 [4769 mm]
Major Diameter (in.)	3.980
Eccentricity (in.)	0.226
Head Diameter (in.)	3.500
Bored Weight (kg)	215
Solid Weight (kg)	246
Material	17-4PH
Coating option 1	Chrome
Coating option 2	Carbide
To be threaded by customer	

Performance Specifications	
Flow Range (lpm)	550 - 1850
Speed Range (RPM)	50 - 130
Torque Slope (ft-lb/kPa)	1.157
Rotation (rev/l)	0.087
Stall Torque (ft-lb)	12,500
Operating Parameters	
Max Diff Pressure (kPa)	8,200
Torque (ft-lb)	9,400
Flow Rate (lpm)	1,500
Full Load RPM	90 at 1500 lpm

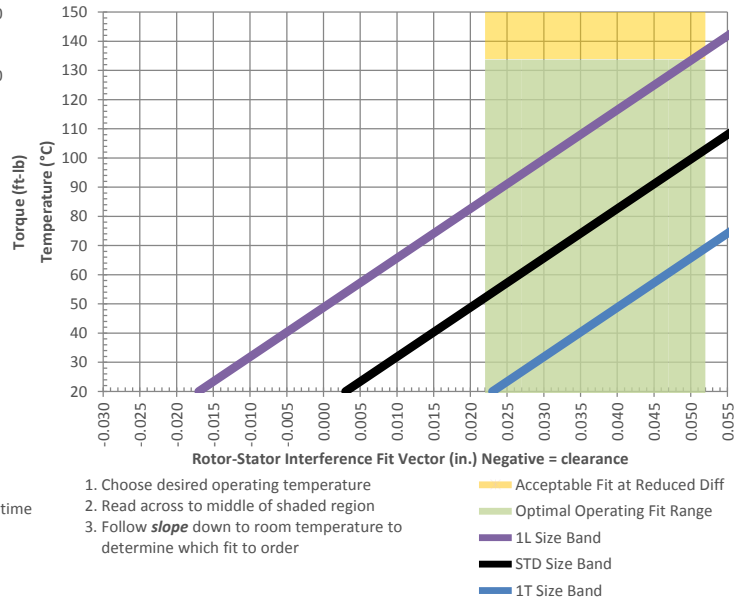
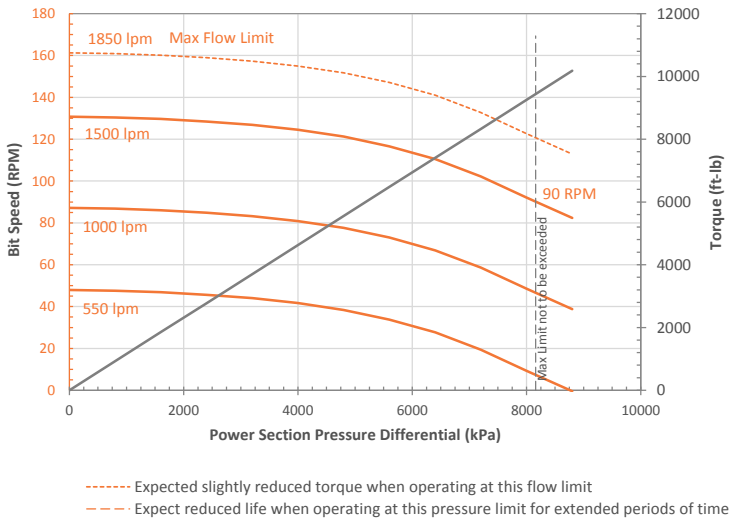
Minor Diameter Fit Details (at 20°C)					
Size Band	Nominal Fit (in.)**	Minor Dia (in.)*	Nominal Fit (in.)**	Minor Dia (in.)*	Operating Temp Optimal
	Vector Measurements		True Size Laser Measurements		
1.0T	-	-	-	-	-
0.5T	-	-	-	-	-
STD	0.003	3.525	0.006	3.522	60 - 90 °C
0.5L	-0.007	3.535	-0.004	3.532	80 - 110 °C
1.0L	-	-	-	-	-
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
<b>Minor Shrinkage (in./°C)</b>					<b>0.00059</b>

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

\*Approximate Vector/laser gauge conversion: 0.003 ± 0.005

\*\*Negative fits indicate clearance fit at room temperature using nominal new rotor

\*\*\*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.



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.