

Power Sections

22 East Lake Crescent N.E., Airdrie, Alberta, Canada, T4A 2H3
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 www.spirasystems.com



Stator Specifications	
Overall Length (in.)	194.5 [4940 mm]
Tube O.D. (in.)	7.00 [178 mm]
Tube I.D. at Terminal (in.)	5.50 [140 mm]
Rubber Cut Back Top (in.)	8.0
Rubber Cut Back Bott (in.)	8.0
Weight (kg)	360
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
Overall Length (in.)	188.0 [4775 mm]
Contour Length (in.)	181 [4597 mm]
Major Diameter (in.)	4.520
Eccentricity (in.)	0.256
Head Diameter (in.)	4.000
Bored Weight (kg)	231
Solid Weight (kg)	306
Material	17-4PH
Coating option 1	Chrome
Coating option 2	Carbide
To be threaded by customer	

Performance Specifications	
Flow Range (lpm)	1100 - 2450
Speed Range (RPM)	80 - 160
Torque Slope (ft-lb/kPa)	1.314
Rotation (rev/l)	0.071
Stall Torque (ft-lb)	15,950
Operating Parameters	
Max Diff Pressure (kPa)	8,100
Torque (ft-lb)	10,650
Flow Rate (lpm)	2,250
Full Load RPM	117 at 2250 lpm

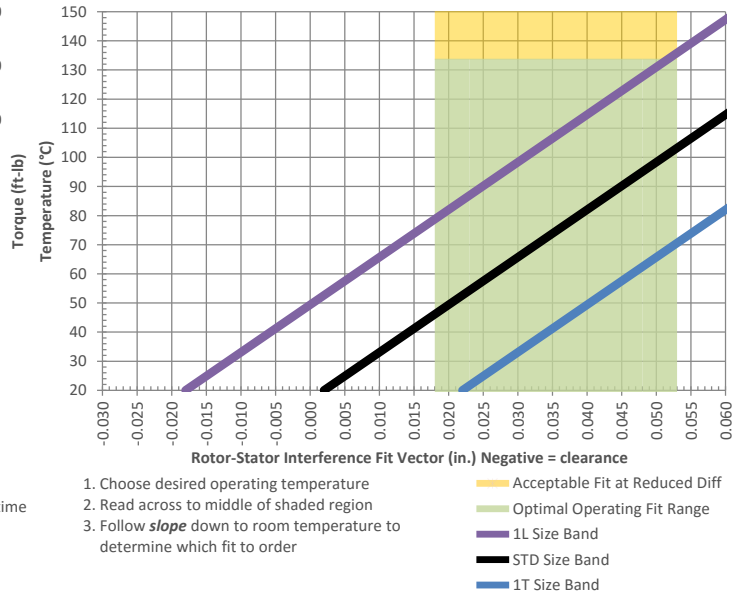
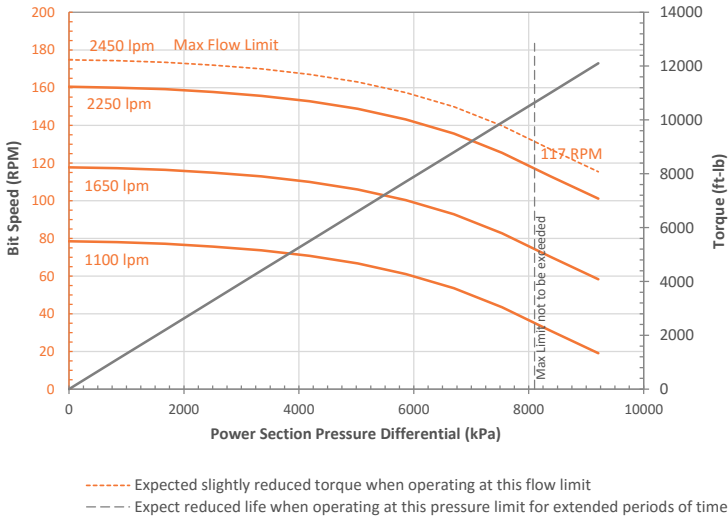
Minor Diameter Fit Details (at 20°C)					
Size Band	Nominal Fit (in.)**	Minor Dia (in.)*	Nominal Fit (in.)**	Minor Dia (in.)*	Operating Temp
	Vector Measurements		True Size Laser Measurements		Optimal
1.0T	-	-	-	-	-
0.5T	0.012	3.996	0.019	3.989	30 - 85 °C
STD	0.002	4.006	0.009	3.999	45 - 105 °C
0.5L	-0.008	4.016	-0.001	4.009	60 - 120 °C
1.0L	-	-	-	-	-
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
Minor Shrinkage (in./°C)					0.00060

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: 0.007 ± 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.