

Power Sections

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Stator Specifications	
Overall Length (in.)	300.0 [7620 mm]
Tube O.D. (in.)	8.00 [203 mm]
Tube I.D. at Terminal (in.)	6.25 [159 mm]
Rubber Cut Back Top (in.)	8.0
Rubber Cut Back Bott (in.)	15.5
Weight (kg)	815
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
Overall Length (in.)	284.5 [7226 mm]
Contour Length (in.)	277 [7023 mm]
Major Diameter (in.)	5.186
Eccentricity (in.)	0.293
Head Diameter (in.)	5.250
Bored Weight (kg)	497
Solid Weight (kg)	611
Material	17-4PH
Coating option 1	Chrome
Coating option 2	Carbide
To be threaded by customer	

Performance Specifications	
Flow Range (lpm)	1500 - 3400
Speed Range (RPM)	60 - 140
Torque Slope (ft-lb/kPa)	2.287
Rotation (rev/l)	0.041
Stall Torque (ft-lb)	32,800
Operating Parameters	
Max Diff Pressure (kPa)	9,600
Torque (ft-lb)	21,850
Flow Rate (lpm)	3,400
Full Load RPM	102 at 3400 lpm

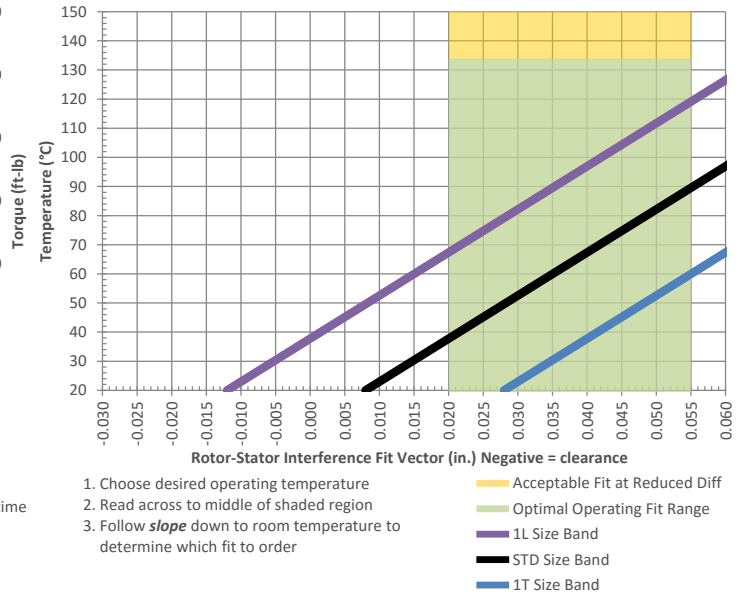
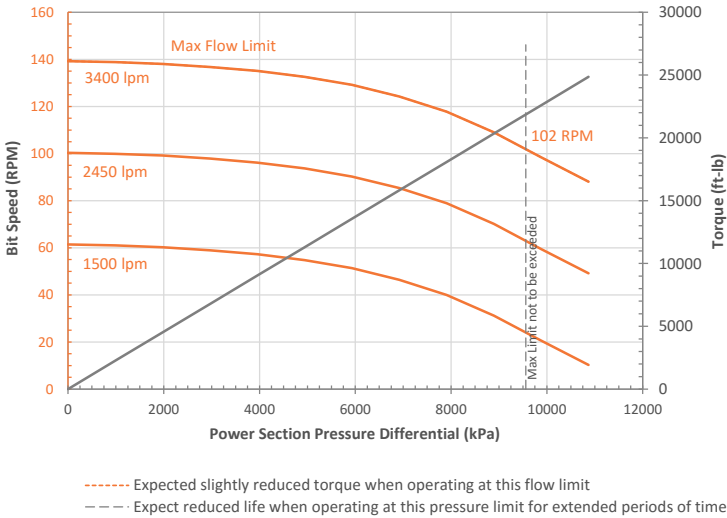
Minor Diameter Fit Details (at 20°C)					
Size Band	Nominal Fit (in.)**	Minor Dia (in.)*	Nominal Fit (in.)**	Minor Dia (in.)*	Operating Temp
	Vector Measurements		True Size Laser Measurements		Optimal
1.0T	-	-	-	-	-
0.5T	0.018	4.582	0.023	4.577	25 - 75 °C
STD	0.008	4.592	0.013	4.587	40 - 90 °C
0.5L	-0.002	4.602	0.003	4.597	55 - 105 °C
1.0L	-	-	-	-	-
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
Minor Shrinkage (in./°C)					0.00067

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: 0.005 ± 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.