

Power Sections

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Stator Specifications	
Overall Length (in.)	242.6 [6162 mm]
Tube O.D. (in.)	5.00 [127 mm]
Tube I.D. at Terminal (in.)	3.75 [95 mm]
Rubber Cut Back Top (in.)	8.0
Rubber Cut Back Bott (in.)	8.0
Weight (kg)	290
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
Overall Length (in.)	229.5 [5829 mm]
Contour Length (in.)	223 [5664 mm]
Major Diameter (in.)	2.916
Eccentricity (in.)	0.207
Head Diameter (in.)	2.750
Bored Weight (kg)	125
Solid Weight (kg)	148
Material	17-4PH
Coating option 1	Chrome
Coating option 2	Carbide
To be threaded by customer	

Performance Specifications	
Flow Range (lpm)	350 - 1100
Speed Range (RPM)	90 - 290
Torque Slope (ft-lb/kPa)	0.374
Rotation (rev/l)	0.264
Stall Torque (ft-lb)	7,550
Operating Parameters	
Max Diff Pressure (kPa)	13,400
Torque (ft-lb)	5,000
Flow Rate (lpm)	1,100
Full Load RPM	210 at 1100 lpm

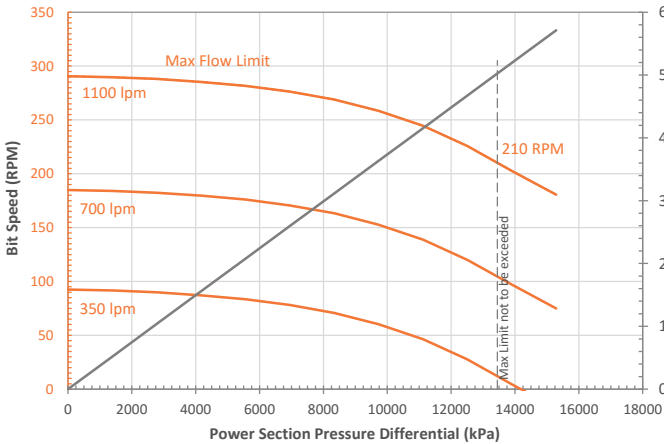
Minor Diameter Fit Details (at 20°C)					
Size Band	Nominal Fit (in.)**	Minor Dia (in.)*	Nominal Fit (in.)**	Minor Dia (in.)*	Operating Temp
	Vector Measurements		True Size Laser Measurements		Optimal
1.0T	-	-	-	-	-
0.5T	-0.005	2.507	0.009	2.493	50 - 120 °C
STD	-0.015	2.517	-0.001	2.503	70 - 140 °C
0.5L	-0.025	2.527	-0.011	2.513	90 - 150 °C
1.0L	-	-	-	-	-
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
Minor Shrinkage (in./°C)					0.00050

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

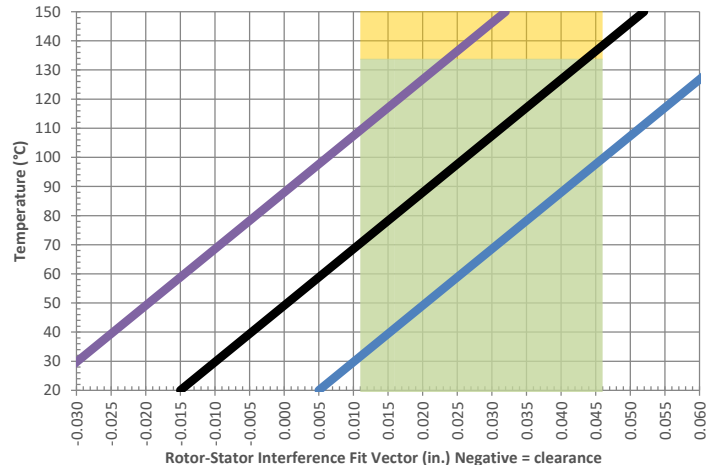
*Approximate Vector/laser gauge conversion: 0.014 ± 0.005

**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.



----- Expected slightly reduced torque when operating at this flow limit
 - - - - - Expect reduced life when operating at this pressure limit for extended periods of time



- Choose desired operating temperature
 - Read across to middle of shaded region
 - Follow slope down to room temperature to determine which fit to order
- Acceptable Fit at Reduced Diff
 - Optimal Operating Fit Range
 - 1L Size Band
 - STD Size Band
 - 1T Size Band

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.