

Power Sections

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



Stator Specifications	
	Inches
Overall Length	300.0
Tube O.D.	7.00
Tube I.D.	5.75
Rubber Cut Back Top	7.0
Rubber Cut Back Bottom	7.0
Weight (lb)	985
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
	Inches
Overall Length	294.0
Contour Length	288
Major Diameter	5.024
Eccentricity	0.268
Head Diameter	5.000
Gunbored Weight (lb)	1067
Solid Weight (lb)	1326
Material	17-4PH
Coating option 1	Chrome
Coating option 2	Carbide
To be threaded by customer	

Performance Specifications	
Flow Range (GPM)	500 - 750
Speed Range (RPM)	130 - 195
Torque Slope (ft-lbs/psi)	9.783
Rotation (rev/Gal)	0.260
Stall Torque (ft-lbs)	27,150
Operating Parameters	
Max Diff Pressure (psi)	2,100
Torque (ft-lbs)	20,500
Flow Rate (GPM)	750
Full Load RPM	135 at 750 GPM

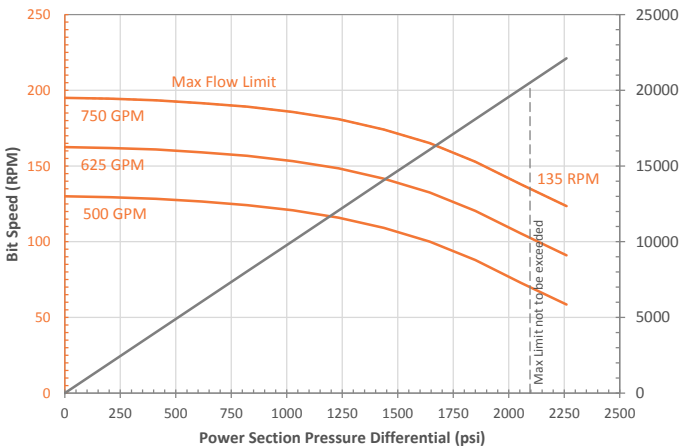
Minor Diameter Fit Details (at 68°F)					
Size Band	Nominal Fit (in.)**	Minor Dia (in.)*	Nominal Fit (in.)**	Minor Dia (in.)*	Operating Temp Optimal
	Vector Measurements		True Size Laser Measurements		
1.0T	0.023	4.465	0.030	4.458	70 - 125 °F
0.5T	0.013	4.475	0.020	4.468	100 - 150 °F
STD	0.003	4.485	0.010	4.478	125 - 180 °F
0.5L	-	-	-	-	-
1.0L	-	-	-	-	-
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
Minor Shrinkage (in./°F)					0.00034

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

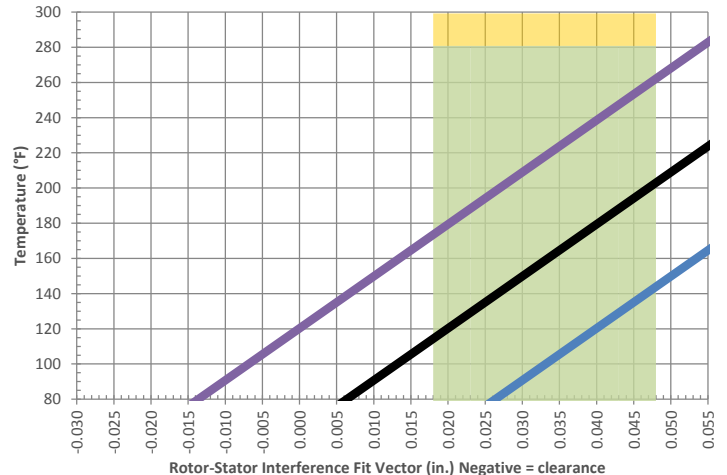
*Approximate Vector/laser gauge conversion: 0.007 ± 0.005

**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.



----- 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.