

Power Sections

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Stator Specifications				
	Inches			
Overall Length	106.0			
Tube O.D.	3.13			
Tube I.D.	2.63			
Rubber Cut Back Top	5.6			
Rubber Cut Back Bottom	5.6			
Weight (lb)	75			
Tube Material	4140-4145			
To be threaded and ID Banded by customer				

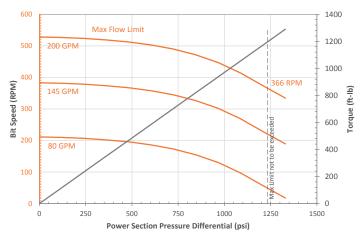
Rotor Specifications				
	Inches			
Overall Length	103.3			
Contour Length	97			
Major Diameter	2.073			
Eccentricity	0.148			
Head Diameter	2.250			
Gunbored Weight (lb)	No bore option			
Solid Weight (lb)	75			
Material	17-4PH			
Coating option 1	Chrome			
Coating option 2	Carbide			
To be threaded by customer				

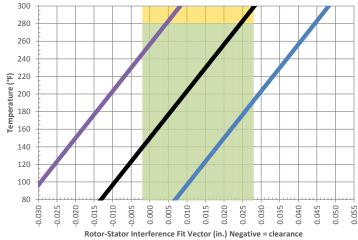
Performance Specifications					
Flow Range (GPM)	80 - 200				
Speed Range (RPM)	210 - 530				
Torque Slope (ft-lbs/psi)	0.970				
Rotation (rev/Gal)	2.640				
Stall Torque (ft-lbs)	1,600				
Operating Parameters					
Max Diff Pressure (psi)	1,250				
Torque (ft-lbs)	1,100				
Flow Rate (GPM)	200				
Full Load RPM	366 at 200 GPM				

Minor Diameter Fit Details (at 68°F)							
	Nominal Fit (in.)**	Minor Dia (in.)*	Nominal Fit (in.)**	Minor Dia (in.)*	Operating Temp		
Size Band	Vector Measurements		True Size Las	ser Measurements	Optimal		
1.0T	-	-	-	-	-		
0.5T	-	-	-	-	-		
STD	-0.015	1.792	-	-	185 - 240 °F		
0.5L	-0.025	1.802	-	-	235 - 290 °F		
1.0L	-0.035	1.812	-	-	290 - 340 °F		
1.5L	-	-	-	-	-		
2.0L	-	-	-	-	-		
Minor Shrinkage (in./°F)			0.0	00019			

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

^{***}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

1. Choose desired operating temperature

 ${\bf 2.} \ {\bf Read \ across \ to \ middle \ of \ shaded \ region}$

3. 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.

^{*}Approximate Vector/laser gauge conversion: 0.012 ± 0.005

^{**}Negative fits indicate clearance fit at room temperature using nominal new rotor