

## Power Sections

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



Stator Specifications	
	Inches
Overall Length	235.0
Tube O.D.	5.00
Tube I.D.	4.00
Rubber Cut Back Top	8.0
Rubber Cut Back Bottom	8.0
Weight (lb)	520
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
	Inches
Overall Length	214.8
Contour Length	208
Major Diameter	3.122
Eccentricity	0.177
Head Diameter	3.250
Gunbored Weight (lb)	325
Solid Weight (lb)	372
Material	17-4PH
Coating option 1	Chrome
Coating option 2	Carbide
To be threaded by customer	

Performance Specifications		
	Optimal Limit	Max Limit*
Flow Range (GPM)	150 - 350	
Speed Range (RPM)	55 - 130	
Torque Slope (ft-lbs/psi)	6.901	
Rotation (rev/Gal)	0.368	
Off Bottom Pressure (psi)	72	
Stall Torque (ft-lbs)	8,300	
Motor Pressure (psi)	805	912
Torque (ft-lbs)	5,600	6,300
Flow (GPM)	350	350
Power (hp)	116	121

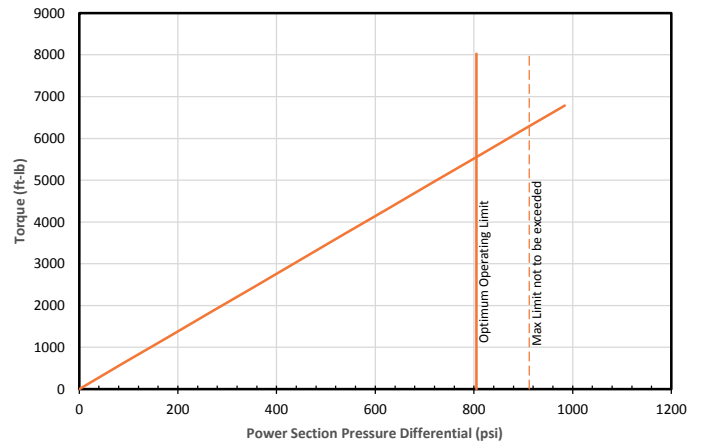
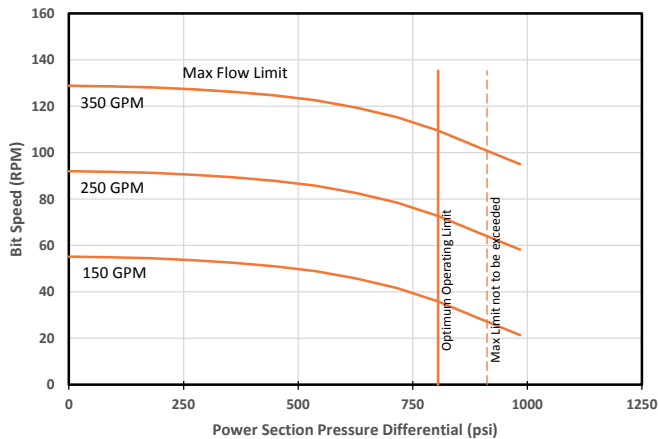
\*Expect reduced life when operating at this limit for extended duration

Minor Diameter Fit Details (at 68°F)					
Size Band	Nominal Fit (in.)**	Minor Dia (in.)*	Nominal Fit (in.)**	Minor Dia (in.)*	Best Oper. Temp***
1.0T	-	-	-	-	-
0.5T	0.006	2.763	0.010	2.759	115 - 165 °F
STD	-0.004	2.773	0.000	2.769	150 - 205 °F
0.5L	-0.014	2.783	-0.010	2.779	185 - 240 °F
1.0L	-0.024	2.793	-0.020	2.789	220 - 275 °F
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
<b>Minor Shrinkage (in./°F)</b>					<b>0.00027</b>

\*Approximate Vector/laser gauge conversion: 0.004 ± 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.