

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	242.6
Tube O.D.	4.75
Tube I.D.	3.75
Rubber Cut Back Top	8.0
Rubber Cut Back Bottom	8.0
Weight (lb)	545
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
	Inches
Overall Length	229.5
Contour Length	223
Major Diameter	2.916
Eccentricity	0.207
Head Diameter	2.750
Gunbored Weight (lb)	275
Solid Weight (lb)	325
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)	100 - 300	
Speed Range (RPM)	100 - 300	
Torque Slope (ft-lbs/psi)	2.576	
Rotation (rev/Gal)	1.000	
Off Bottom Pressure (psi)	128	
Stall Torque (ft-lbs)	7,000	
Motor Pressure (psi)	1,806	2,046
Torque (ft-lbs)	4,700	5,300
Flow (GPM)	300	300
Power (hp)	226	236

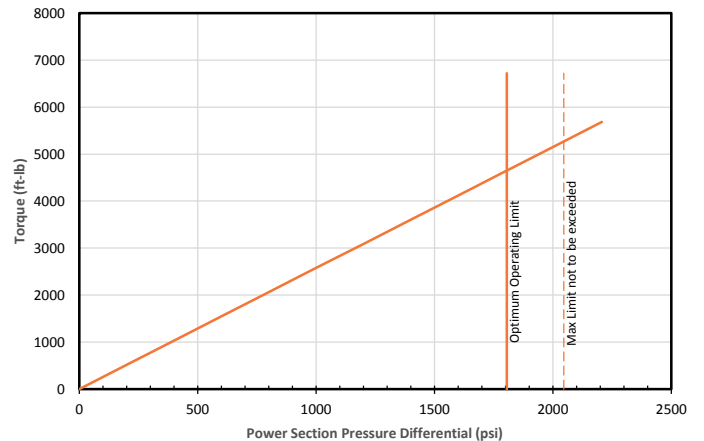
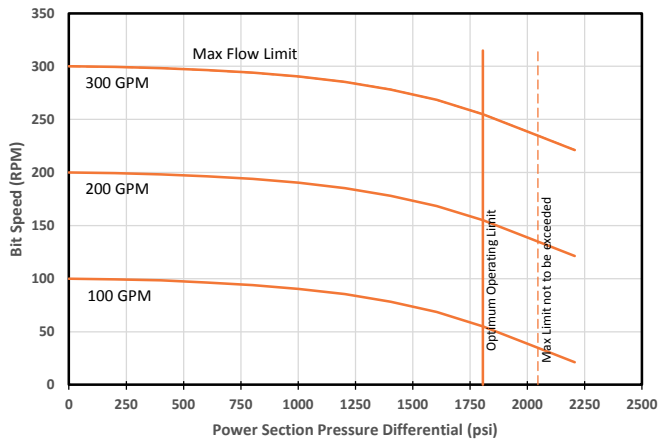
*Expect reduced life when operating at this limit for extended duration

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	-0.005	2.507	0.009	2.493	115 - 170 °F
STD	-0.015	2.517	-0.001	2.503	150 - 205 °F
0.5L	-0.025	2.527	-0.011	2.513	185 - 240 °F
1.0L	-	-	-	-	-
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
Minor Shrinkage (in./°F)					0.00028

*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.



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.