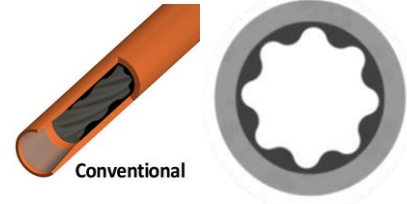


Power Sections

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



Stator Specifications	
Overall Length (in.)	235.0 [5969 mm]
Tube O.D. (in.)	4.75 [121 mm]
Tube I.D. (in.)	4.00 [102 mm]
Rubber Cut Back Top (in.)	8.0
Rubber Cut Back Bottom (in.)	8.0
Weight (kg)	150
Tube Material	4140-4145
To be threaded and ID Banded by customer	

Rotor Specifications	
Overall Length (in.)	214.8 [5455 mm]
Contour Length (in.)	208 [5290 mm]
Major Diameter (in.)	3.122
Eccentricity (in.)	0.177
Head Diameter (in.)	3.250
Gunbored Weight (kg)	147
Solid Weight (kg)	169
Material	17-4PH
Coating option 1	Chrome
Coating option 2	Carbide
To be threaded by customer	

Performance Specifications		
Flow Range (lpm)	550 - 1300	
Speed Range (RPM)	55 - 125	
Torque Slope (ft-lbs/kPa)	1.001	
Rotation (rev/l)	0.097	
Off Bottom Pressure (kPa)	496	
Stall Torque (ft-lbs)	8,300	
	Optimal Limit	Max Limit*
Motor Pressure (kPa)	5,550	6,290
Torque (ft-lbs)	5,600	6,300
Flow (lpm)	1,300	1,300
Power (hp)	113	118

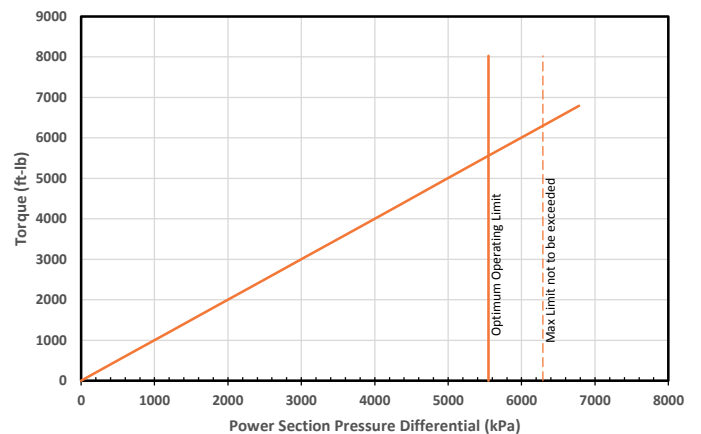
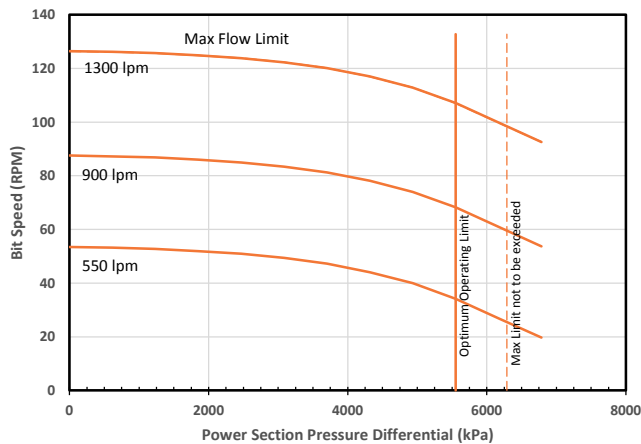
*Expect reduced life when operating at this limit for extended duration

Minor Diameter Fit Details (at 20°C)					
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	45 - 75 °C
STD	-0.004	2.773	0.000	2.769	65 - 95 °C
0.5L	-0.014	2.783	-0.010	2.779	85 - 115 °C
1.0L	-0.024	2.793	-0.020	2.789	105 - 135 °C
1.5L	-	-	-	-	-
2.0L	-	-	-	-	-
Minor Shrinkage (in./°C)					0.00049

*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.