

## **Power Sections**

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

ec	ifications		Perf
	229.5	[5829]	Flow Range GPM [lpm
	223.0	[5664]	Speed Range RPM
	2.916	[74.1]	Torque Slope ft-lb/ps
			4

## 5.00 5/6 LOBES 8.3 STAGES

Model: SPS500568.3

**Mixed Units** 



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Stator Specifications			
Overall Length in. [mm]	242.6	[6162]	
Tube O.D. in. [mm]	5.00	[127]	
Tube I.D. (Terminal) in. [mm]	3.75	[95]	
Rubber Cutback Top in. [mm]	8.0	[203.2]	
Rubber Cutback Btm in. [mm]	8.0	[203.2]	
Weight lb [kg]	635	[290]	
Tube Material	4140-4145		
To be threaded and ID Ban	ded by cus	tomer	

Rotor Specifications					
verall Length in. [mm]	229.5	[5829]			
ontour Length in. [mm]	223.0	[5664]			
ajor Diameter in. [mm]	2.916	[74.1]			
centricity in. [mm]	0.207	[5.3]			
ead Diameter in. [mm]	2.750	[69.9]			
unbored Weight lb [kg]	275	[125]			
lid Weight lb [kg]	325	[148]			
aterial (See note 4)	17-4 PH				
oating Options	Chrome	or Carbide			
To be threaded by customer					

Performance specifications						
Flow Range GPM [lpm]	100 - 300	[380 - 1140]				
Speed Range RPM	100 - 300					
Torque Slope ft-lb/psi [Nm/kPa]	2.576	[0.507]				
Rotation rev/Gal [rev/lit]	1.000	[0.264]				
Stall Torque ft-lb [Nm]	7,550	[10,200]				
Operating Parameters						
Max Diff Pressure psi [kPa]	1,950	[13,400]				
Torque ft-lbs [Nm]	5,000	[6,800]				
Flow Rate GPM [lpm]	300	[1,100]				
Full Load RPM	220 at 300 GPM					

## Minor Diameter Fit Details at 20°C [68°F] (See note 3)

Size Band	Vector Fit (in.) (see note 1)	Vector Measurement (in.)	Recommended Min Operating Temperature	Recommended Optimal Operating Temperature (see note 2)	Recommended Max Operating Temperature (see note 2)		
1.0T	-	-	-	-	-		
0.5T	-0.005	2.507	150°F [65°C]	220°F [105°C]	285°F [140°C]		
STD	-0.015	2.517	195°F [90°C]	265°F [130°C]	300°F [150°C]		
0.5L	-	-	-	-	-		
1.0L	-	-	-	-	-		
	0.000215 [0.000387]						

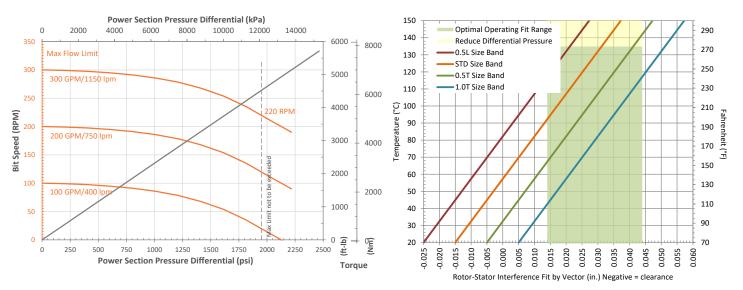
Notes:

1. Negative fits indicate clearance fit at room temperature using nominal new rotor.

2. Reduce differential pressure by 20% for temperatures above 250°F (125°C) and by 40% for temperatures above 285°F (140°C)

3. Typical stator minor diameter tolerances are +/- 0.015.

4. Material minimum yield to be discussed at time of order subject to availability.



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 the operator may be liable for. Data subject to change without notice. Visit www.spirasystems.com for most up to date information.