Weatherford®

Fluid Power Systems

Power Section

6 1/2 (6 1/4) 7:8 4.8 (250)

Status: Release
***Rev. Date:* 10/8/2008**

Dimensional Specifications:	Rotor		Stator			
	Type 4		Standard		Oversize	
	Imperial	Metric	Imperial	Metric	Imperial	Metric
Tube OD			6.5 in	165.1 mm	in	mm
Rotor Bore Diameter / Tube ID	in	mm	5.00 in	127.0 mm	in	mm
Overall Length	194.2 in	4932.7 mm	204.0 in	5181.6 mm	in	mm
Contour Length	188.2 in	4780.3 mm	188.0 in	4775.2 mm	in	mm
Rotor Head Length / Stator Cutback Length	6.0 in	152.4 mm	8.0 in	203.2 mm	in	mm
Rotor Head OD	3.75 in	95.3 mm				
Rotor Eccentricity	0.226 in	5.7 mm				
Rotor Head Orbit Diameter	4.202 in	106.7 mm				
Weight	523 lb	238 kg	840 lb.	382 kg	lb.	kg
Major Diameter	3.980 in	101.1 mm	4.425 in	112.4 mm	in	mm
Minor Diameter (Rotor) / (Stator) Vector Tool™	3.076 in	78.1 mm	3.523 in	89.5 mm	in	mm
Mean Diameter* (Rotor) / Minor Diameter (Stator)	3.528 in	89.6 mm	3.517 in	89.3 mm	in	mm
Thread Form	Customer specified		Customer specified		Customer specified	

*Mean Diameter odd number of lobes = Measurement from top of the lobe to opposite valley

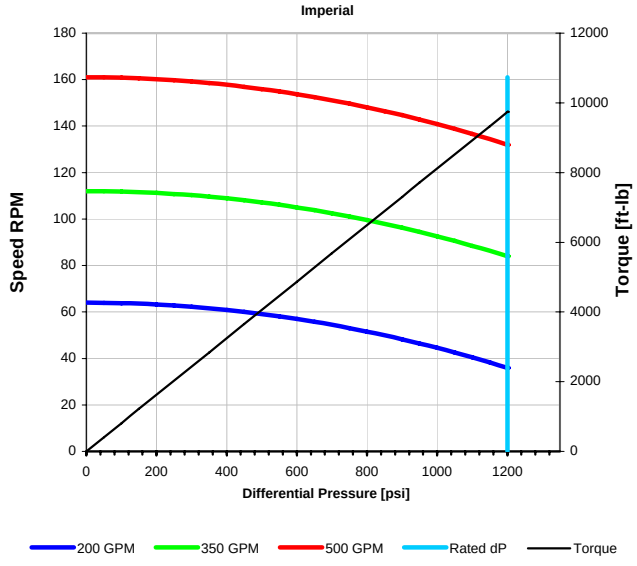
*Mean Diameter even number of lobes = Average of major and minor diameter measurements

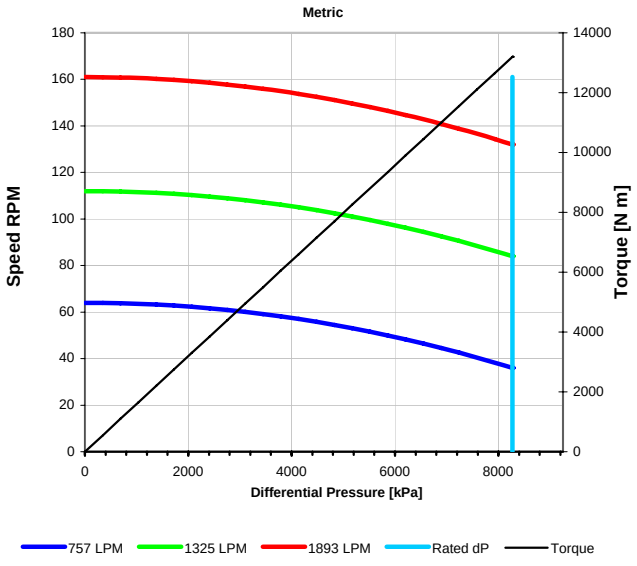
Stator dimensions at 68 F / 20 C

Minor Diameter Compression Fit = Rotor Mean Diameter - Stator Minor Diameter

Minor Diameter Compression Fit:	Standard Stator			Oversize Stator		
Temperature	68 °F/ 20 °C	185 °F / 85 °C	250 °F / 121 °C	68 °F/ 20 °C	250 °F / 121 °C	325 °F / 163 °C
Inches	0.011	0.059	0.086			
Millimeters	0.279	1.504	2.182			

Performance Specifications:	US Measure	Metric
Flow Range	200 - 500 (US)gpm	757 - 1893 lpm
Speed Range	64 - 161 rpm	64 - 161 rpm
Speed Ratio	0.32 rev/(US)gpm	0.085 rev/lpm
Recommended Max Differential Pressure	1,200 psi	8,274 kPa
Torque Ratio	8.12 lb-ft/psi	1.596 N-m/kPa
Torque at Recommended Max Differential Pressure	9,738 lb-ft	13,203 N-m
Stall Torque	14,607 lb-ft	19,804 N-m





Performance curves for reference only, actual performance will vary depending on fit, temperature, fluid and condition.

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Performance and dimensional information is subject to change without notice.

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