



VIKING

Power Technologies

5203 Aeropark Dr., Houston, TX 77032 USA
 Tel: (832)-957-3200 Email: sales@vikingpt.com

Conventional Power Section

500 67 100

5.00" OD 6/7 Lobes 10.0 Stages

Rotor Specification

Overall Length	264.00 in.
Contour Length	256.00 in.
Head Length	8.00 in.
Head Diameter	3.40 in.
Major Diameter	3.256 in.
Eccentric	0.192 in.
Material	17-4 PH
Weight	493 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	275.00 in.
Contour Length	251.00 in.
Tube O.D.	5.00 in.
Tube I.D.	4.00 in.
Cutback (Band / Non-Band)	8.00 / 16.00 in.
Stages	10.0
Material	4140 HT
Weight	596 lbs.
Thread Form	Contact Factory

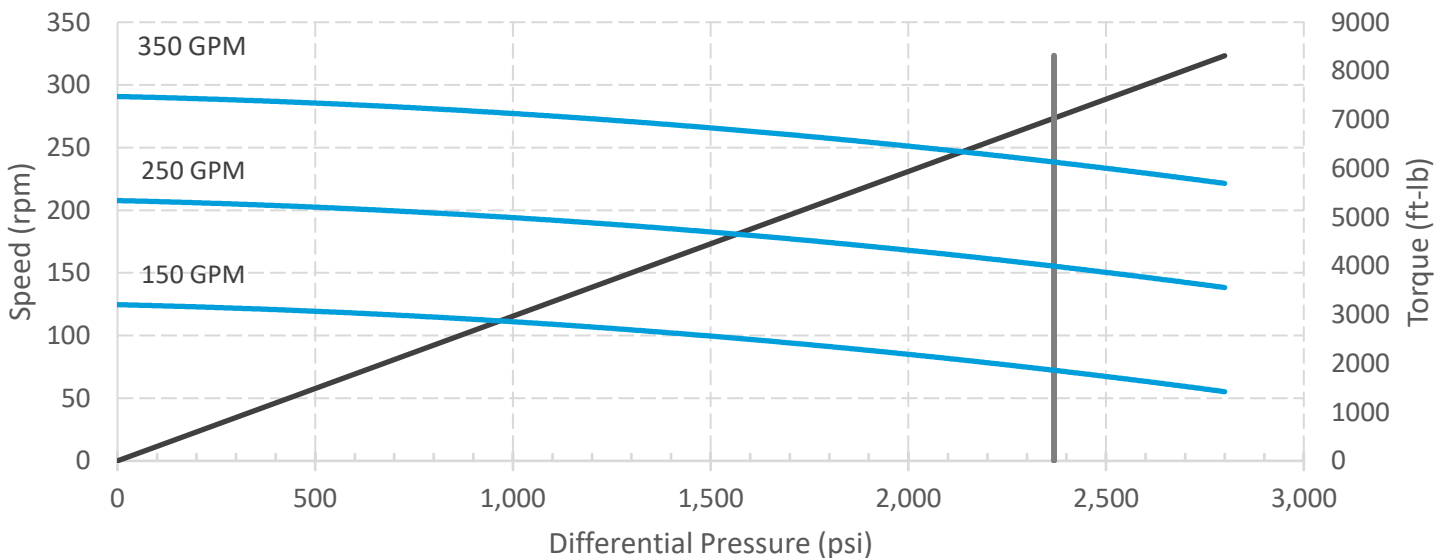
Downhole Performance Specifications

Torque Slope	2.97 ft-lbs/psi	Max Diff. Pressure	2,370 psi	2,370 psi
Flow Range	150 - 350 gpm	Max Torque	7,030 ft-lbs	5,670 ft-lbs
Speed Range	125 - 291 rpm	Speed (Max Diff. & Flow)	238 rpm	204 rpm
Rotation	0.831 rev/gal	Max HP	320 hp	220 hp
Off-Bottom Pressure	130 psi	Stall Diff. Pressure	3,720 psi	
		Stall Torque	11,040 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000241 in/°F			Temperature Slope 0.000294 in/°F		
1.0 Undersize						
Standard						
0.5 Oversize						
1.0 Oversize	2.902	-0.030	250 - 320 °F	2.920	-0.048	280 - 365 °F
1.5 Oversize						
2.0 Oversize						



Power section performance curves are for reference only. Actual performance will vary with different downhole conditions and rotor/stator fits. If operated above the optimal differential pressure, stator life will be reduced. Optimal load power calculation is based on maximum RPM and optimal load torque. Information contained in this document is subject to change without notice.



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5.00" OD 6/7 Lobes 10.0 Stages

Rotor Specification

Overall Length	6705.6 mm
Contour Length	6502.4 mm
Head Length	203.2 mm
Head Diameter	86.36 mm
Major Diameter	82.70 mm
Eccentric	4.88 mm
Material	17-4 PH
Weight	224 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6985.0 mm
Contour Length	6375.4 mm
Tube O.D.	127.0 mm
Tube I.D.	101.6 mm
Cutback (Band / Non-Band)	203.2 / 406.4 mm
Stages	10.0
Material	4140 HT
Weight	271 kgs
Thread Form	Contact Factory

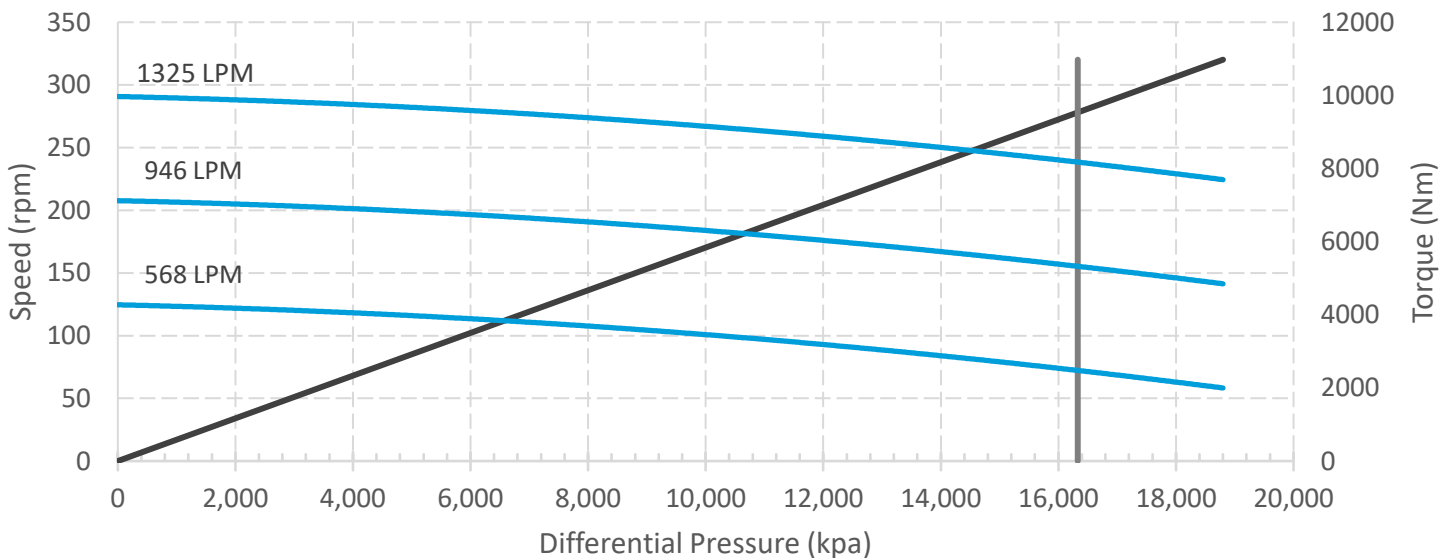
Downhole Performance Specifications

Torque Slope	0.58 Nm/kPa	Max Diff. Pressure	16341 kPa	16341 kPa
Flow Range	568 - 1325 lpm	Max Torque	9531 Nm	7687 Nm
Speed Range	125 - 291 rpm	Speed (Max Diff. & Flow)	238 rpm	204 rpm
Rotation	0.2195 rev/liter	Max HP	239 kW	164 kW
Off-Bottom Pressure	896 kPa	Stall Diff. Pressure	25649 kPa	
		Stall Torque	14968 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
Temperature Slope	0.011019 mm/°C			0.013442 mm/°C		
1.0 Undersize						
Standard						
0.5 Oversize						
1.0 Oversize	73.71	-0.76	121 - 160 °C	74.17	-1.22	138 - 185 °C
1.5 Oversize						
2.0 Oversize						



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