



VIKING

Power Technologies

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

Conventional Power Section

500 78 57

5.00" OD 7/8 Lobes 5.7 Stages

Rotor Specification

Overall Length	240.00 in.
Contour Length	234.00 in.
Head Length	6.00 in.
Head Diameter	3.25 in.
Major Diameter	3.144 in.
Eccentric	0.168 in.
Material	17-4 PH
Weight	437 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	250.00 in.
Contour Length	234.00 in.
Tube O.D.	5.00 in.
Tube I.D.	4.00 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	5.7
Material	4140 HT
Weight	547 lbs.
Thread Form	Contact Factory

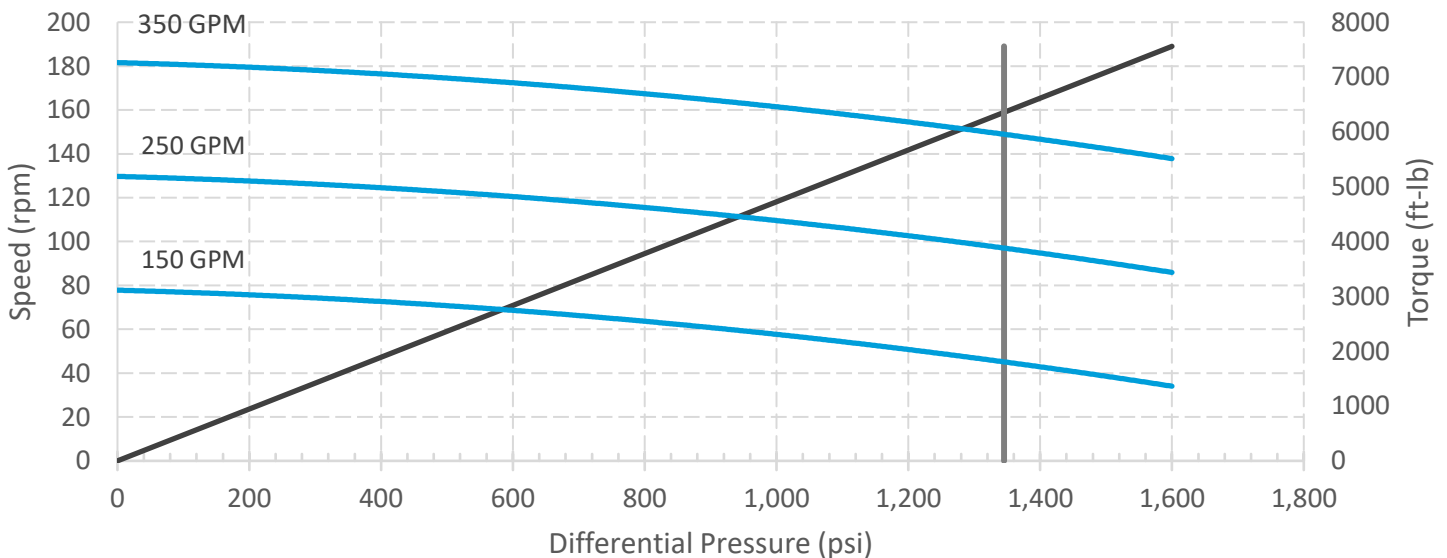
Downhole Performance Specifications

Torque Slope	4.73 ft-lbs/psi	Max Diff. Pressure	1,350 psi	1,350 psi
Flow Range	150 - 350 gpm	Max Torque	6,360 ft-lbs	5,130 ft-lbs
Speed Range	78 - 182 rpm	Speed (Max Diff. & Flow)	149 rpm	128 rpm
Rotation	0.519 rev/gal	Max HP	180 hp	125 hp
Off-Bottom Pressure	80 psi	Stall Diff. Pressure	2,120 psi	
		Stall Torque	10,020 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard						
0.5 Oversize	2.813	-0.005	145 - 245 °F	2.829	-0.021	190 - 270 °F
1.0 Oversize						
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.



Rotor Specification

Overall Length	6096.0 mm
Contour Length	5943.6 mm
Head Length	152.4 mm
Head Diameter	82.55 mm
Major Diameter	79.86 mm
Eccentric	4.27 mm
Material	17-4 PH
Weight	198 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6350.0 mm
Contour Length	5943.6 mm
Tube O.D.	127.0 mm
Tube I.D.	101.6 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	5.7
Material	4140 HT
Weight	248 kgs
Thread Form	Contact Factory

Downhole Performance Specifications

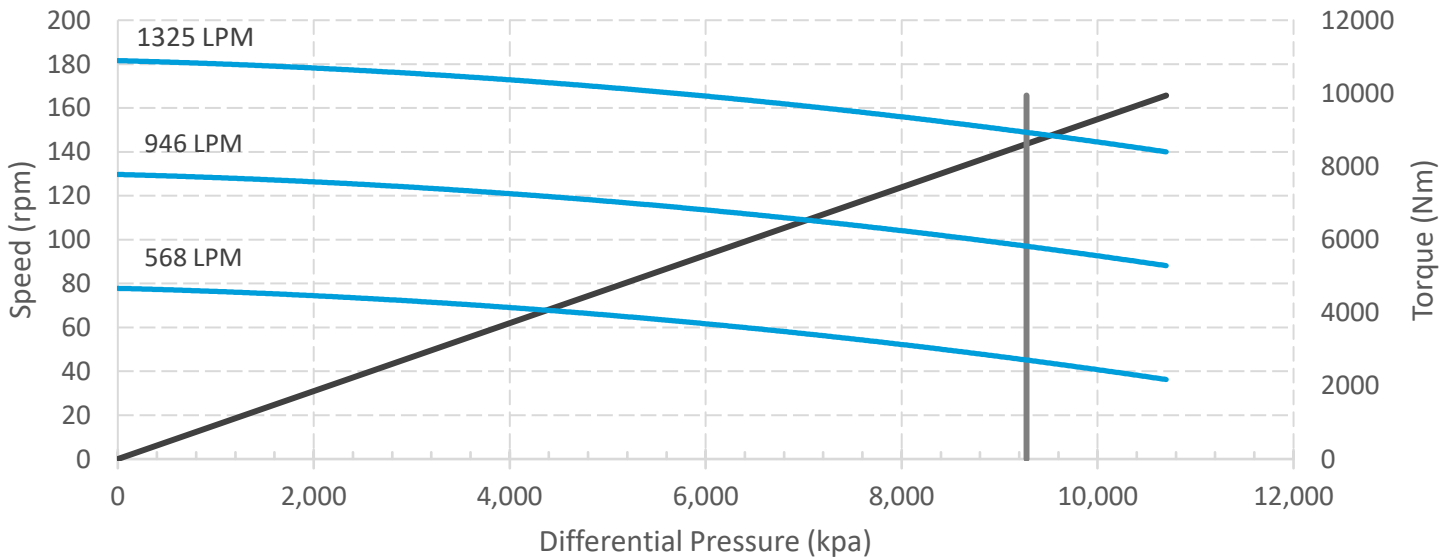
Torque Slope	0.93 Nm/kPa
Flow Range	568 - 1325 lpm
Speed Range	78 - 182 rpm
Rotation	0.1371 rev/liter
Off-Bottom Pressure	552 kPa

Dyno Performance

Max Diff. Pressure	9308 kPa
Max Torque	8623 Nm
Speed (Max Diff. & Flow)	149 rpm
Max HP	134 kW
Stall Diff. Pressure	14617 kPa
Stall Torque	13585 Nm

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
Temperature Slope	0.010241 mm/°C			0.012527 mm/°C		
1.0 Undersize Standard						
0.5 Oversize	71.45	-0.13	63 - 118 °C	71.86	-0.53	88 - 132 °C
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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