



# VIKING

Power Technologies

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## Conventional Power Section

875 67 66

8.75" OD 6/7 Lobes 6.6 Stages

### Rotor Specification

Overall Length	290.00 in.
Contour Length	282.00 in.
Head Length	8.00 in.
Head Diameter	6.10 in.
Major Diameter	6.244 in.
Eccentric	0.375 in.
Material	17-4 PH
Weight	2,050 lbs.
Thread Form	Contact Factory

### Stator Specification

Overall Length	297.75 in.
Contour Length	278.75 in.
Tube O.D.	8.75 in.
Tube I.D.	7.25 in.
Cutback (Band / Non-Band)	9.50 / 9.50 in.
Stages	6.6
Material	4140 HT
Weight	1,707 lbs.
Thread Form	Contact Factory

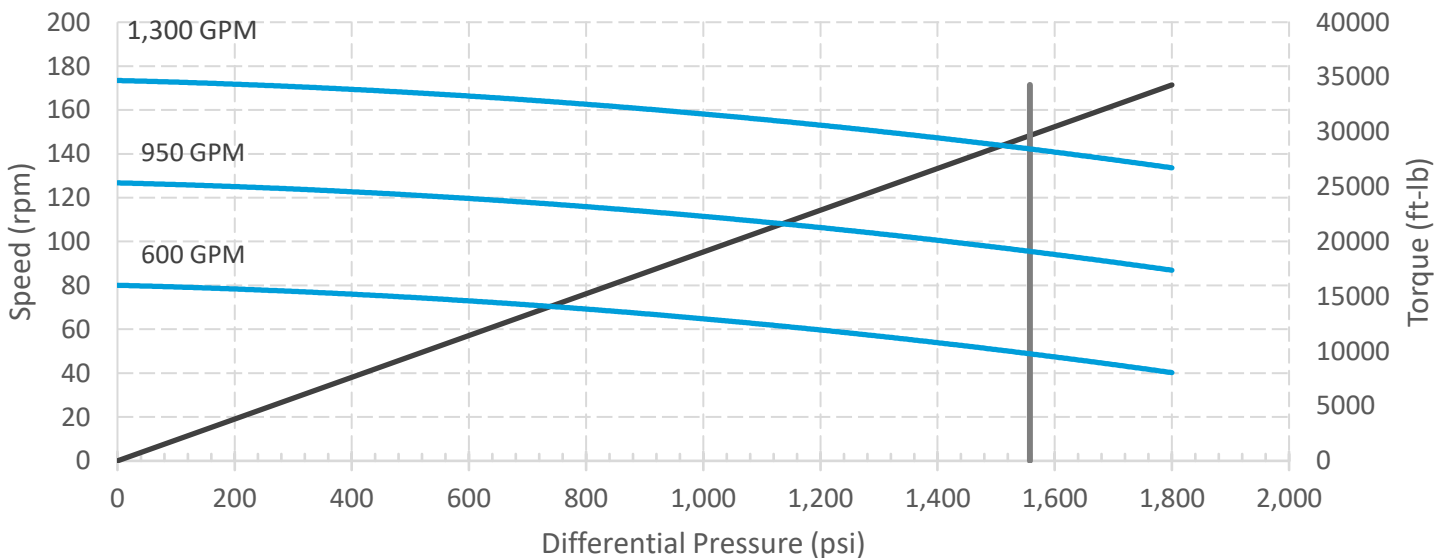
### Downhole Performance Specifications

Torque Slope	19.05 ft-lbs/psi	Max Diff. Pressure	1,560 psi	1,560 psi
Flow Range	600 - 1,300 gpm	Max Torque	29,670 ft-lbs	23,930 ft-lbs
Speed Range	80 - 173 rpm	Speed (Max Diff. & Flow)	142 rpm	122 rpm
Rotation	0.133 rev/gal	Max HP	805 hp	555 hp
Off-Bottom Pressure	165 psi	Stall Diff. Pressure	2,450 psi	
		Stall Torque	46,660 ft-lbs	

### Dyno Performance

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	5.484	0.011	100 - 220 °F	5.507	-0.012	155 - 255 °F
0.5 Oversize						
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	7366.0 mm
Contour Length	7162.8 mm
Head Length	203.2 mm
Head Diameter	154.94 mm
Major Diameter	158.59 mm
Eccentric	9.52 mm
Material	17-4 PH
Weight	930 kgs
Thread Form	Contact Factory

**Stator Specification**

Overall Length	7562.9 mm
Contour Length	7080.3 mm
Tube O.D.	222.3 mm
Tube I.D.	184.2 mm
Cutback (Band / Non-Band)	241.3 / 241.3 mm
Stages	6.6
Material	4140 HT
Weight	774 kgs
Thread Form	Contact Factory

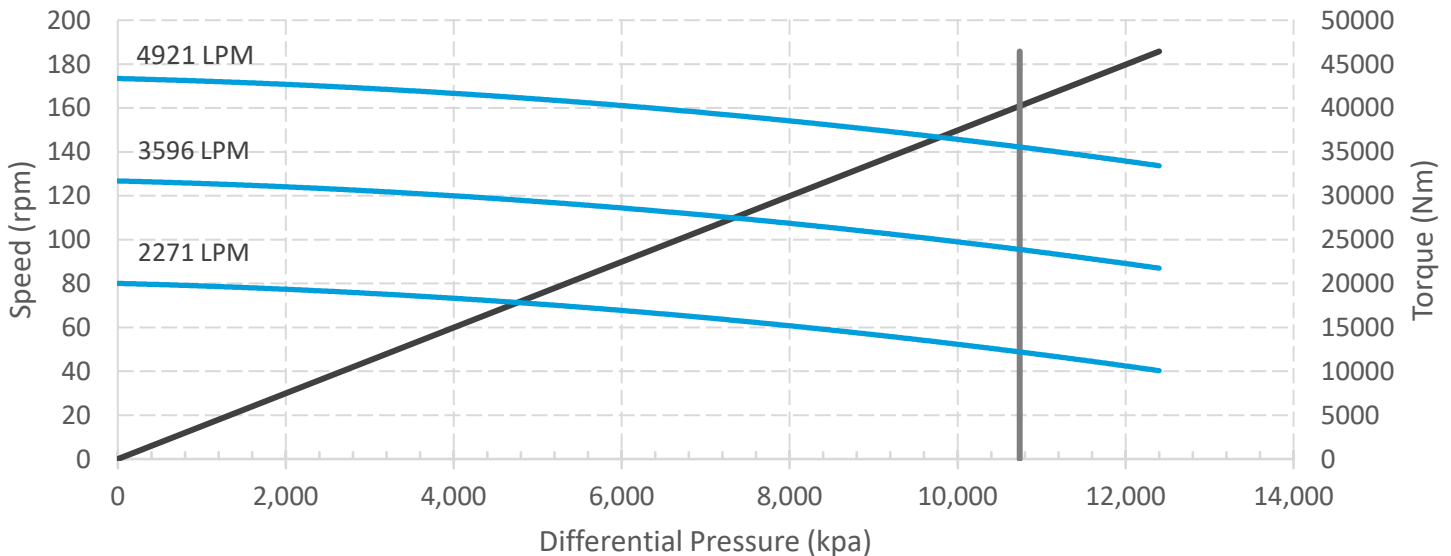
**Downhole Performance Specifications**

Torque Slope	3.75 Nm/kPa	Max Diff. Pressure	10756 kPa	10756 kPa
Flow Range	2271 - 4921 lpm	Max Torque	40227 Nm	32445 Nm
Speed Range	80 - 173 rpm	Speed (Max Diff. & Flow)	142 rpm	122 rpm
Rotation	0.0351 rev/liter	Max HP	600 kW	414 kW
Off-Bottom Pressure	1,138 kPa	Stall Diff. Pressure	16892 kPa	
		Stall Torque	63262 Nm	

**Dyno Performance**

**Elastomer Performance**

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.014127 mm/°C			Temperature Slope 0.017282 mm/°C		
1.0 Undersize						
Standard	139.29	0.28	38 - 104 °C	139.88	-0.30	68 - 124 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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