



# VIKING

Power Technologies

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

## Conventional Power Section

675 78 29

6.75" OD 7/8 Lobes 2.9 Stages

### Rotor Specification

Overall Length	213.00 in.
Contour Length	206.00 in.
Head Length	7.00 in.
Head Diameter	4.00 in.
Major Diameter	4.296 in.
Eccentric	0.244 in.
Material	17-4 PH
Weight	697 lbs.
Thread Form	Contact Factory

### Stator Specification

Overall Length	220.00 in.
Contour Length	204.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	2.9
Material	4140 HT
Weight	830 lbs.
Thread Form	Contact Factory

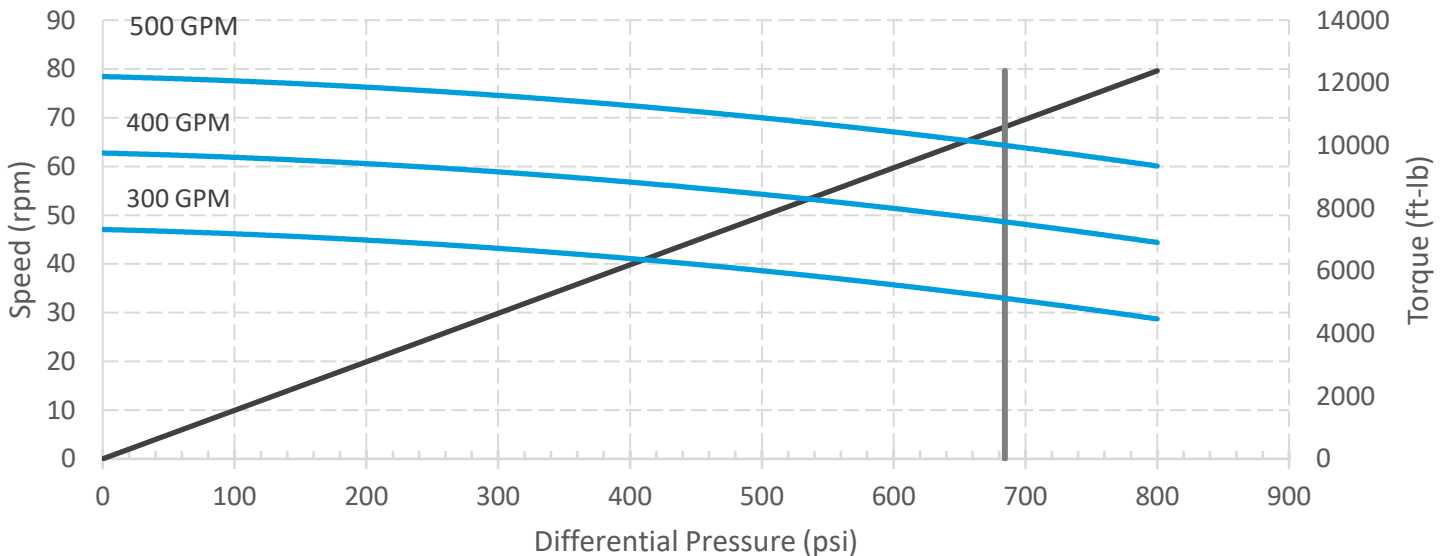
### Downhole Performance Specifications

Torque Slope	15.48 ft-lbs/psi	Max Diff. Pressure	680 psi		680 psi
Flow Range	300 - 500 gpm	Max Torque	10,600 ft-lbs		8,550 ft-lbs
Speed Range	47 - 78 rpm	Speed (Max Diff. & Flow)	64 rpm		55 rpm
Rotation	0.157 rev/gal	Max HP	130 hp		90 hp
Off-Bottom Pressure	65 psi	Stall Diff. Pressure	1,070 psi		
		Stall Torque	16,570 ft-lbs		

### Dyno Performance

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
			Temperature Slope 0.000289 in/°F			Temperature Slope 0.000353 in/°F
1.0 Undersize						
Standard	3.809	-0.001	135 - 240 °F	3.830	-0.022	180 - 270 °F
0.5 Oversize						
1.0 Oversize	3.828	-0.020	200 - 305 °F	3.851	-0.043	240 - 325 °F
1.5 Oversize						
2.0 Oversize	3.844	-0.036	255 - 320 °F	3.864	-0.056	275 - 360 °F



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	5410.2 mm
Contour Length	5232.4 mm
Head Length	177.8 mm
Head Diameter	101.60 mm
Major Diameter	109.12 mm
Eccentric	6.20 mm
Material	17-4 PH
Weight	316 kgs
Thread Form	Contact Factory

### Stator Specification

Overall Length	5588.0 mm
Contour Length	5181.6 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	2.9
Material	4140 HT
Weight	376 kgs
Thread Form	Contact Factory

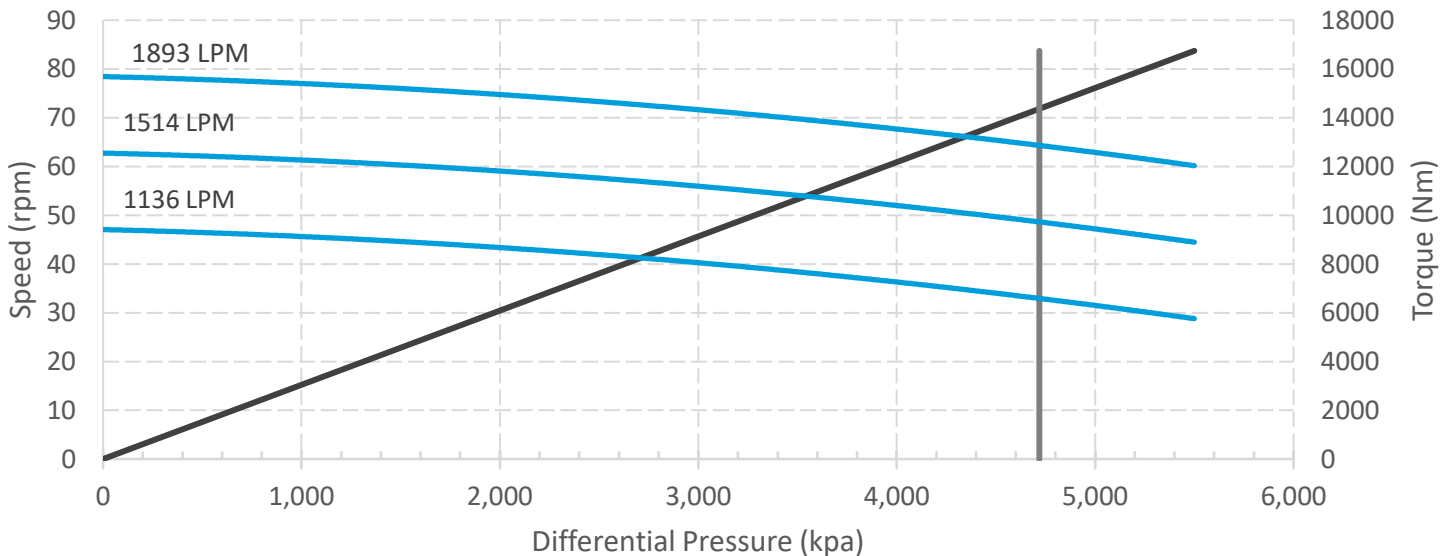
### Downhole Performance Specifications

Torque Slope	3.04 Nm/kPa	Max Diff. Pressure	4688 kPa	4688 kPa
Flow Range	1136 - 1893 lpm	Max Torque	14372 Nm	11592 Nm
Speed Range	47 - 78 rpm	Speed (Max Diff. & Flow)	64 rpm	55 rpm
Rotation	0.0415 rev/liter	Max HP	97 kW	67 kW
Off-Bottom Pressure	448 kPa	Stall Diff. Pressure	7377 kPa	
		Stall Torque	22466 Nm	

### Dyno Performance

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	96.75	-0.03	57 - 116 °C	97.28	-0.56	82 - 132 °C
0.5 Oversize						
1.0 Oversize	97.23	-0.51	93 - 152 °C	97.82	-1.09	116 - 163 °C
1.5 Oversize						
2.0 Oversize	97.64	-0.91	124 - 160 °C	98.15	-1.42	135 - 182 °C



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.