



# VIKING

Power Technologies

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

## Conventional Power Section

675 78 33

6.75" OD 7/8 Lobes 3.3 Stages

### Rotor Specification

Overall Length	238.50 in.
Contour Length	231.50 in.
Head Length	7.00 in.
Head Diameter	4.00 in.
Major Diameter	4.501 in.
Eccentric	0.255 in.
Material	17-4 PH
Weight	873 lbs.
Thread Form	Contact Factory

### Stator Specification

Overall Length	245.00 in.
Contour Length	229.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	3.3
Material	4140 HT
Weight	909 lbs.
Thread Form	Contact Factory

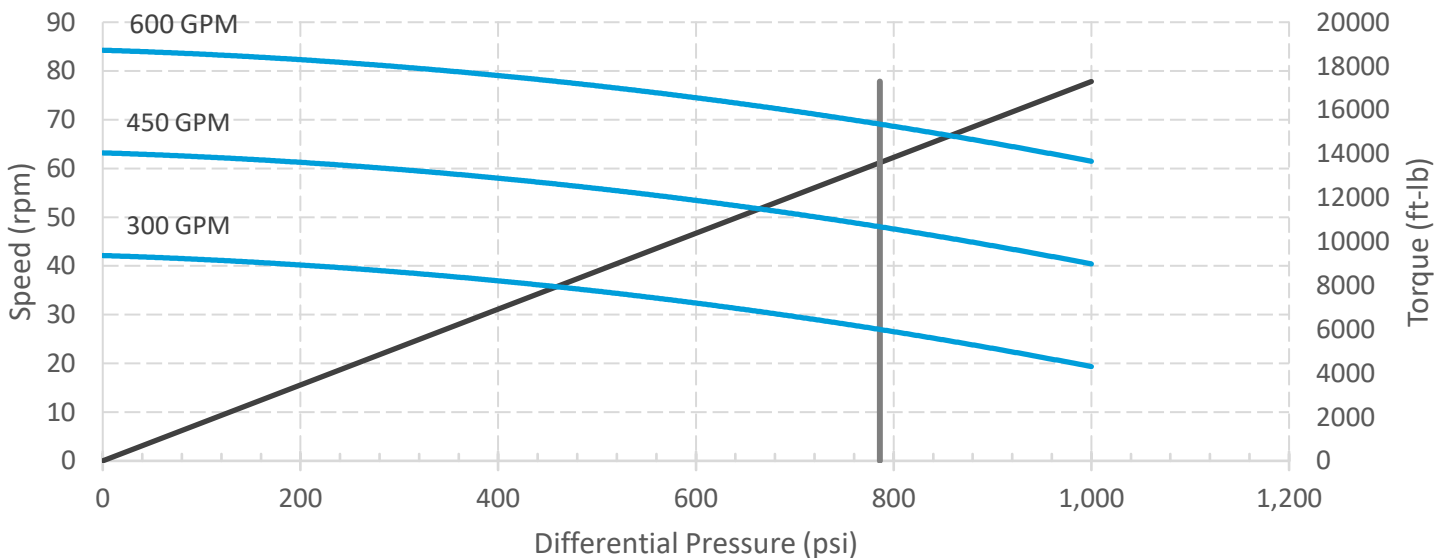
### Downhole Performance Specifications

Torque Slope	17.30 ft-lbs/psi	Max Diff. Pressure	790 psi		790 psi
Flow Range	300 - 600 gpm	Max Torque	13,600 ft-lbs		10,970 ft-lbs
Speed Range	42 - 84 rpm	Speed (Max Diff. & Flow)	69 rpm		59 rpm
Rotation	0.140 rev/gal	Max HP	180 hp		125 hp
Off-Bottom Pressure	70 psi	Stall Diff. Pressure	1,240 psi		
		Stall Torque	21,450 ft-lbs		

### Dyno Performance

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000247 in/°F			Temperature Slope 0.000302 in/°F		
1.0 Undersize						
Standard	3.997	-0.006	155 - 270 °F	4.015	-0.024	200 - 290 °F
0.5 Oversize						
1.0 Oversize	4.019	-0.028	245 - 320 °F	4.038	-0.047	275 - 365 °F
1.5 Oversize						
2.0 Oversize	4.026	-0.035	270 - 320 °F	4.043	-0.052	290 - 375 °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	6057.9 mm
Contour Length	5880.1 mm
Head Length	177.8 mm
Head Diameter	101.60 mm
Major Diameter	114.31 mm
Eccentric	6.47 mm
Material	17-4 PH
Weight	396 kgs
Thread Form	Contact Factory

### Stator Specification

Overall Length	6223.0 mm
Contour Length	5816.6 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	3.3
Material	4140 HT
Weight	412 kgs
Thread Form	Contact Factory

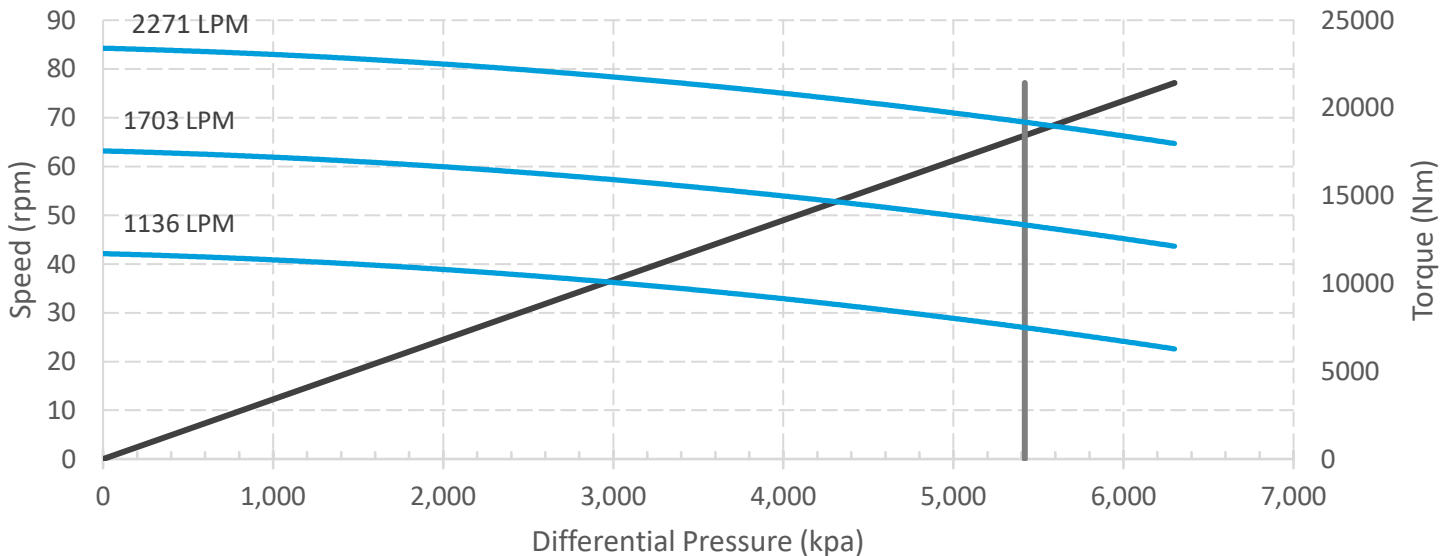
### Downhole Performance Specifications

Torque Slope	3.40 Nm/kPa	Max Diff. Pressure	5447 kPa	5447 kPa
Flow Range	1136 - 2271 lpm	Max Torque	18439 Nm	14873 Nm
Speed Range	42 - 84 rpm	Speed (Max Diff. & Flow)	69 rpm	59 rpm
Rotation	0.0370 rev/liter	Max HP	134 kW	93 kW
Off-Bottom Pressure	483 kPa	Stall Diff. Pressure	8550 kPa	
		Stall Torque	29082 Nm	

### Dyno Performance

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	101.52	-0.15	68 - 132 °C	101.98	-0.61	93 - 143 °C
0.5 Oversize						
1.0 Oversize	102.08	-0.71	118 - 160 °C	102.57	-1.19	135 - 185 °C
1.5 Oversize						
2.0 Oversize	102.26	-0.89	132 - 160 °C	102.69	-1.32	143 - 191 °C



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