



# VIKING

Power Technologies

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

## Conventional Power Section

675 78 30

6.75" OD 7/8 Lobes 3.0 Stages

### Rotor Specification

Overall Length	118.50 in.
Contour Length	112.50 in.
Head Length	6.00 in.
Head Diameter	4.00 in.
Major Diameter	4.527 in.
Eccentric	0.255 in.
Material	17-4 PH
Weight	436 lbs.
Thread Form	Contact Factory

### Stator Specification

Overall Length	131.00 in.
Contour Length	115.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	3.0
Material	4140 HT
Weight	483 lbs.
Thread Form	Contact Factory

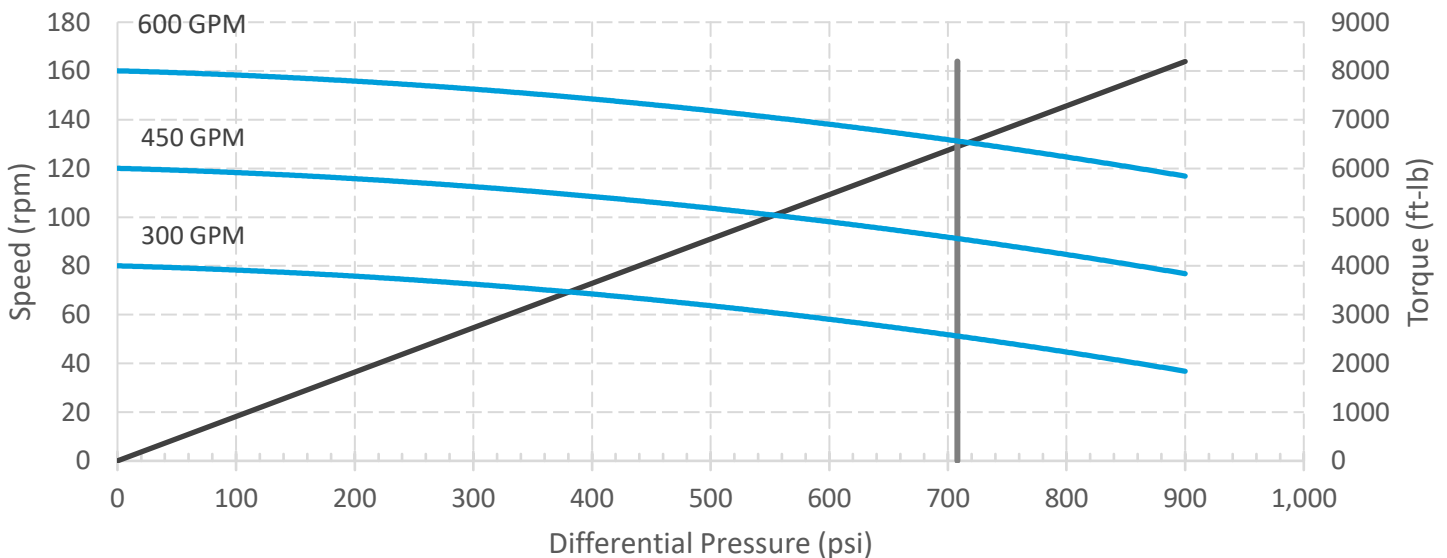
### Downhole Performance Specifications

Torque Slope	9.10 ft-lbs/psi	Max Diff. Pressure	710 psi	710 psi
Flow Range	300 - 600 gpm	Max Torque	6,450 ft-lbs	5,200 ft-lbs
Speed Range	80 - 160 rpm	Speed (Max Diff. & Flow)	131 rpm	112 rpm
Rotation	0.267 rev/gal	Max HP	160 hp	110 hp
Off-Bottom Pressure	90 psi	Stall Diff. Pressure	1,110 psi	
		Stall Torque	10,110 ft-lbs	

### Dyno Performance

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	4.013	0.003	125 - 250 °F	4.029	-0.013	175 - 275 °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	3009.9 mm
Contour Length	2857.5 mm
Head Length	152.4 mm
Head Diameter	101.60 mm
Major Diameter	114.97 mm
Eccentric	6.48 mm
Material	17-4 PH
Weight	198 kgs
Thread Form	Contact Factory

**Stator Specification**

Overall Length	3327.4 mm
Contour Length	2921.0 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	3.0
Material	4140 HT
Weight	219 kgs
Thread Form	Contact Factory

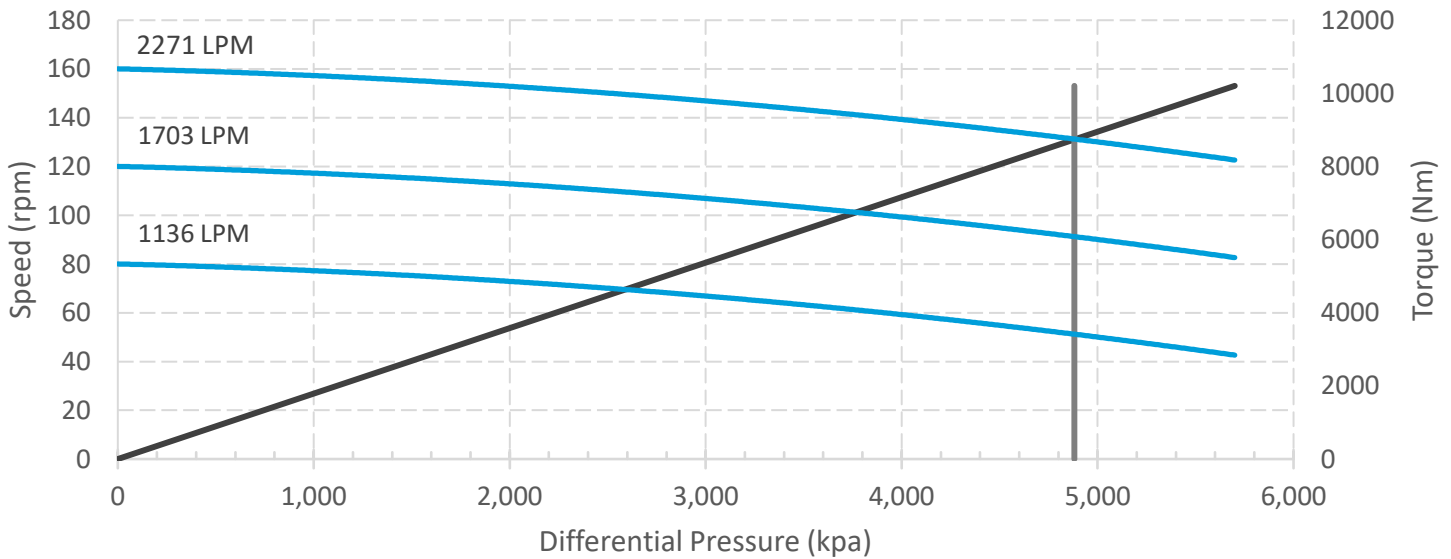
**Downhole Performance Specifications**

Torque Slope	1.79 Nm/kPa	Max Diff. Pressure	4895 kPa	4895 kPa
Flow Range	1136 - 2271 lpm	Max Torque	8745 Nm	7050 Nm
Speed Range	80 - 160 rpm	Speed (Max Diff. & Flow)	131 rpm	112 rpm
Rotation	0.0705 rev/liter	Max HP	119 kW	82 kW
Off-Bottom Pressure	621 kPa	Stall Diff. Pressure	7653 kPa	
		Stall Torque	13707 Nm	

**Dyno Performance**

**Elastomer Performance**

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	101.93	0.08	52 - 121 °C	102.34	-0.33	79 - 135 °C
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.