



# VIKING

Power Technologies

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## Conventional Power Section

800 78 30 S

8.00" OD 7/8 Lobes 3.0 Stages

### Rotor Specification

Overall Length	238.00 in.
Contour Length	231.00 in.
Head Length	7.00 in.
Head Diameter	4.75 in.
Major Diameter	5.153 in.
Eccentric	0.297 in.
Material	17-4 PH
Weight	1,153 lbs.
Thread Form	Contact Factory

### Stator Specification

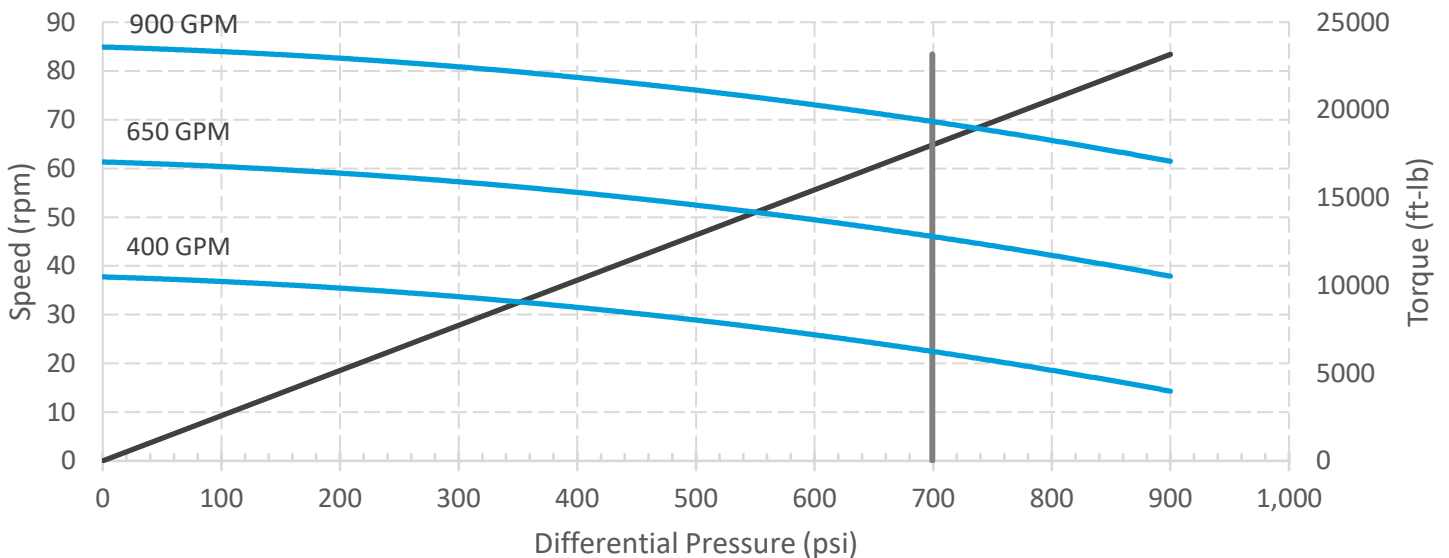
Overall Length	246.00 in.
Contour Length	230.00 in.
Tube O.D.	8.00 in.
Tube I.D.	6.25 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	3.0
Material	4140 HT
Weight	1,457 lbs.
Thread Form	Contact Factory

### Downhole Performance Specifications

Torque Slope	25.74 ft-lbs/psi	Max Diff. Pressure	700 psi	Dyno Performance	700 psi
Flow Range	400 - 900 gpm	Max Torque	18,000 ft-lbs		14,520 ft-lbs
Speed Range	38 - 85 rpm	Speed (Max Diff. & Flow)	70 rpm		60 rpm
Rotation	0.094 rev/gal	Max HP	240 hp		165 hp
Off-Bottom Pressure	110 psi	Stall Diff. Pressure	1,100 psi		
		Stall Torque	28,320 ft-lbs		

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000264 in/°F			Temperature Slope 0.000323 in/°F		
1.0 Undersize						
Standard	4.570	-0.011	175 - 295 °F	4.589	-0.030	215 - 310 °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	6045.2 mm
Contour Length	5867.4 mm
Head Length	177.8 mm
Head Diameter	120.65 mm
Major Diameter	130.89 mm
Eccentric	7.54 mm
Material	17-4 PH
Weight	523 kgs
Thread Form	Contact Factory

### Stator Specification

Overall Length	6248.4 mm
Contour Length	5842.0 mm
Tube O.D.	203.2 mm
Tube I.D.	158.8 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	3.0
Material	4140 HT
Weight	661 kgs
Thread Form	Contact Factory

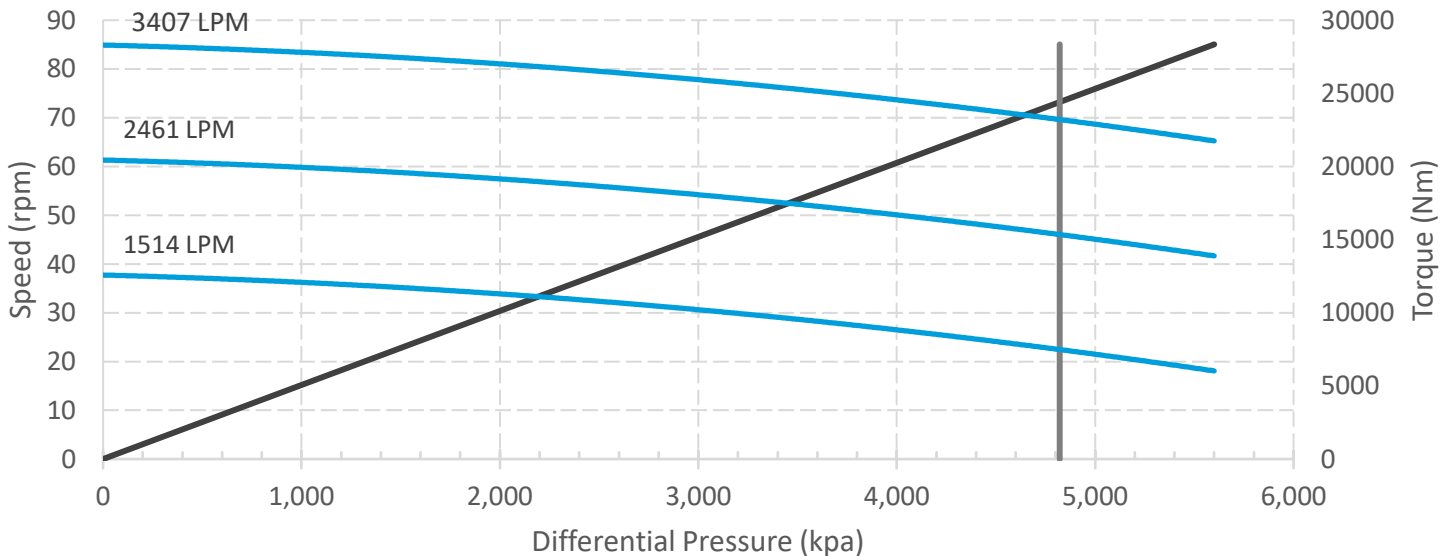
### Downhole Performance Specifications

Torque Slope	5.06 Nm/kPa	Max Diff. Pressure	4826 kPa	4826 kPa
Flow Range	1514 - 3407 lpm	Max Torque	24405 Nm	19686 Nm
Speed Range	38 - 85 rpm	Speed (Max Diff. & Flow)	70 rpm	60 rpm
Rotation	0.0248 rev/liter	Max HP	179 kW	123 kW
Off-Bottom Pressure	758 kPa	Stall Diff. Pressure	7584 kPa	
		Stall Torque	38397 Nm	

### Dyno Performance

### Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	116.08	-0.28	79 - 146 °C	116.56	-0.76	102 - 154 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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