



VIKING

Power Technologies

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Conventional Power Section

700 78 58

7.00" OD 7/8 Lobes 5.8 Stages

Rotor Specification

Overall Length	292.00 in.
Contour Length	284.00 in.
Head Length	8.00 in.
Head Diameter	4.75 in.
Major Diameter	4.800 in.
Eccentric	0.300 in.
Material	17-4 PH
Weight	1,192 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	300.00 in.
Contour Length	280.00 in.
Tube O.D.	7.00 in.
Tube I.D.	5.75 in.
Cutback (Band / Non-Band)	10.00 / 10.00 in.
Stages	5.8
Material	4140 HT
Weight	1,155 lbs.
Thread Form	Contact Factory

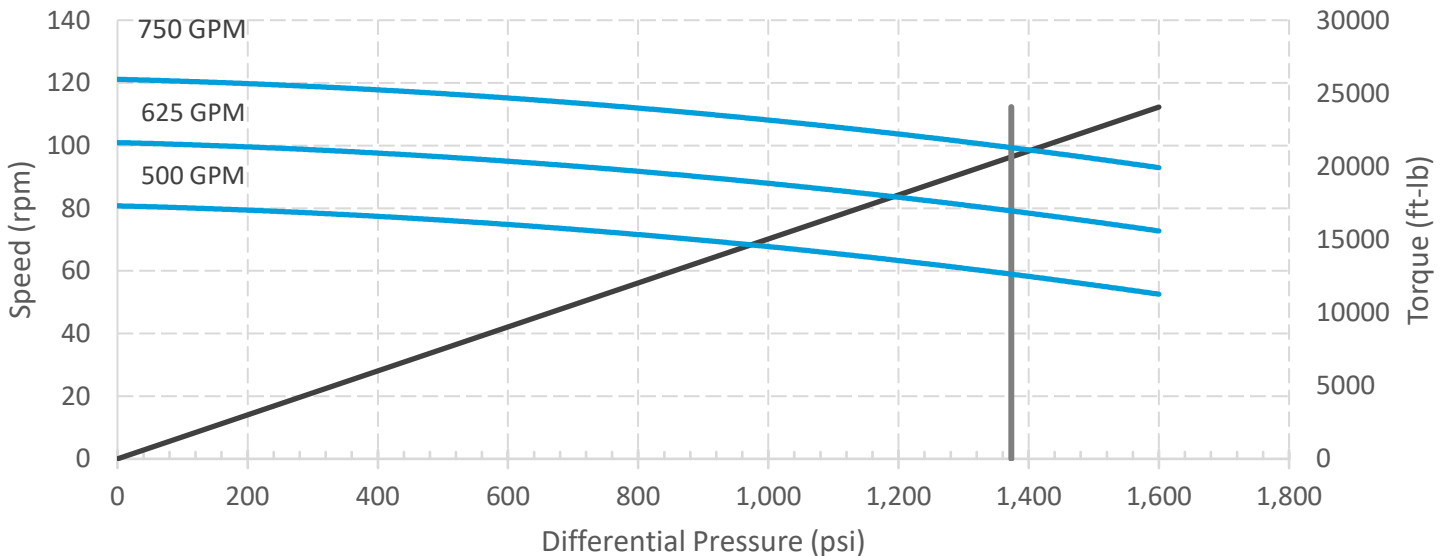
Downhole Performance Specifications

Torque Slope	15.04 ft-lbs/psi	Max Diff. Pressure	1,370 psi	1,370 psi
Flow Range	500 - 750 gpm	Max Torque	20,650 ft-lbs	16,660 ft-lbs
Speed Range	81 - 121 rpm	Speed (Max Diff. & Flow)	99 rpm	85 rpm
Rotation	0.162 rev/gal	Max HP	390 hp	270 hp
Off-Bottom Pressure	110 psi	Stall Diff. Pressure	2,150 psi	
		Stall Torque	32,330 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000276 in/°F			Temperature Slope 0.000338 in/°F		
1.0 Undersize						
Standard	4.185	0.015	80 - 205 °F	4.205	-0.005	140 - 240 °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	7416.8 mm
Contour Length	7213.6 mm
Head Length	203.2 mm
Head Diameter	120.65 mm
Major Diameter	121.92 mm
Eccentric	7.62 mm
Material	17-4 PH
Weight	541 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	7620.0 mm
Contour Length	7112.0 mm
Tube O.D.	177.8 mm
Tube I.D.	146.1 mm
Cutback (Band / Non-Band)	254.0 / 254.0 mm
Stages	5.8
Material	4140 HT
Weight	524 kgs
Thread Form	Contact Factory

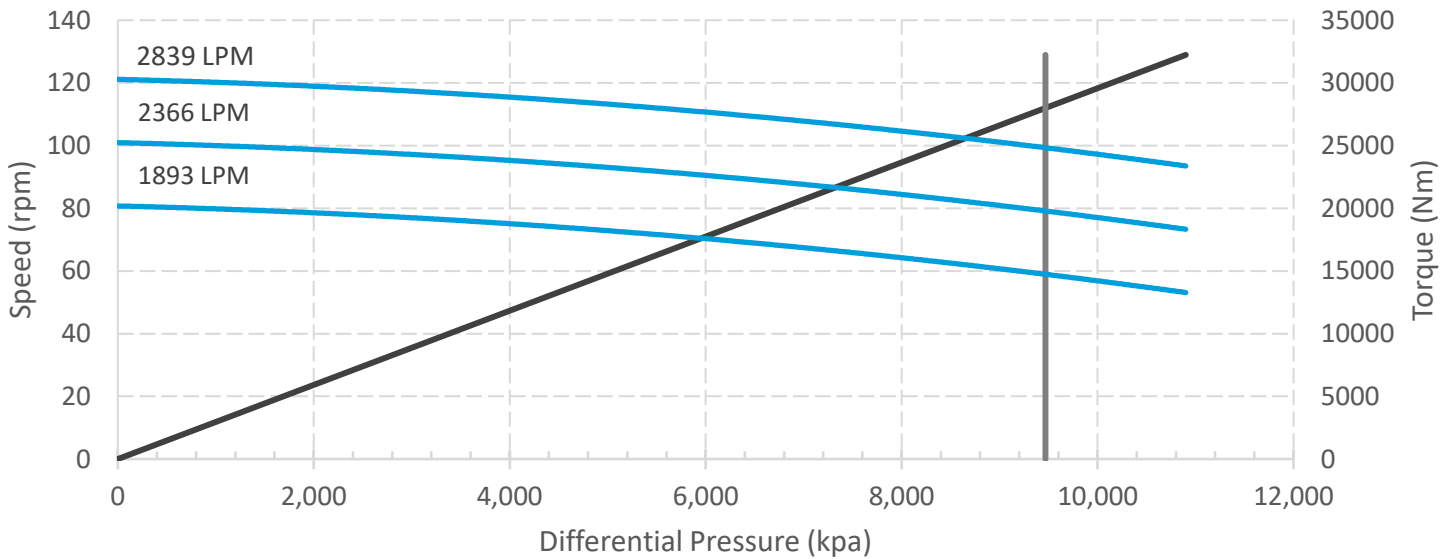
Downhole Performance Specifications

Torque Slope	2.96 Nm/kPa	Max Diff. Pressure	9446 kPa	9446 kPa
Flow Range	1893 - 2839 lpm	Max Torque	27998 Nm	22588 Nm
Speed Range	81 - 121 rpm	Speed (Max Diff. & Flow)	99 rpm	85 rpm
Rotation	0.0428 rev/liter	Max HP	291 kW	201 kW
Off-Bottom Pressure	758 kPa	Stall Diff. Pressure	14824 kPa	
		Stall Torque	43834 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	106.30	0.38	27 - 96 °C	106.81	-0.13	60 - 116 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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