



VIKING

Power Technologies

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Conventional Power Section

500 67 93

5.00" OD 6/7 Lobes 9.3 Stages

Rotor Specification

Overall Length	266.00 in.
Contour Length	260.00 in.
Head Length	6.00 in.
Head Diameter	3.40 in.
Major Diameter	3.224 in.
Eccentric	0.199 in.
Material	17-4 PH
Weight	485 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	275.00 in.
Contour Length	259.00 in.
Tube O.D.	5.00 in.
Tube I.D.	4.00 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	9.3
Material	4140 HT
Weight	599 lbs.
Thread Form	Contact Factory

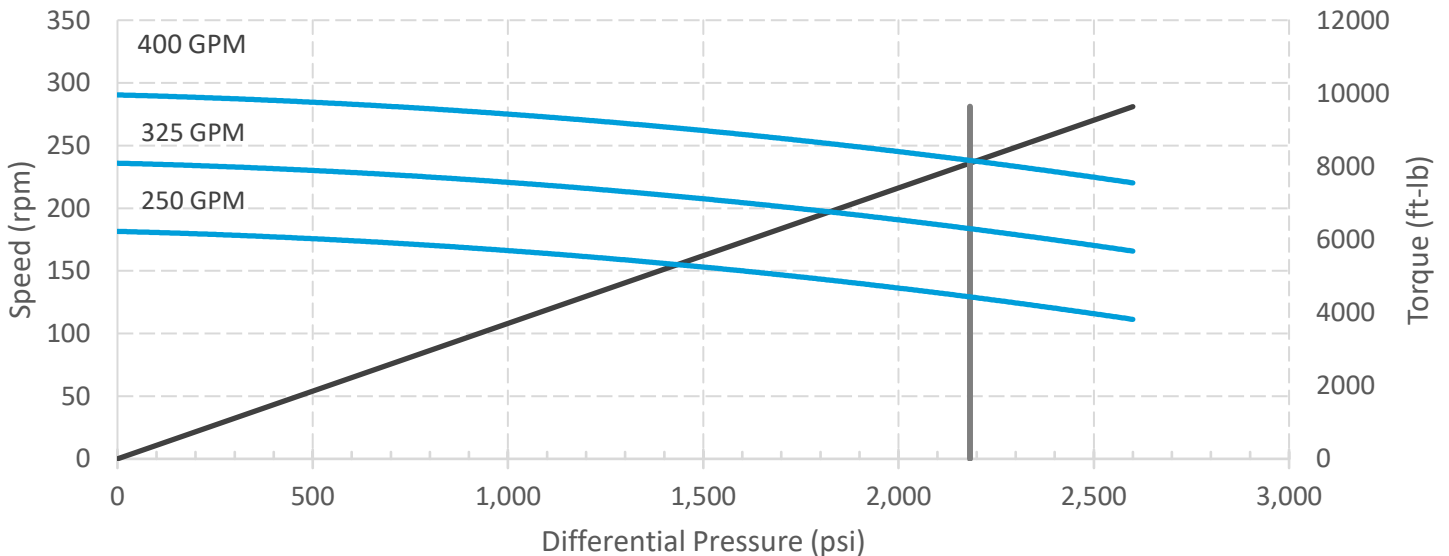
Downhole Performance Specifications

Torque Slope	3.71 ft-lbs/psi	Max Diff. Pressure	2,180 psi	2,180 psi
Flow Range	250 - 400 gpm	Max Torque	8,090 ft-lbs	6,530 ft-lbs
Speed Range	181 - 290 rpm	Speed (Max Diff. & Flow)	238 rpm	204 rpm
Rotation	0.726 rev/gal	Max HP	365 hp	255 hp
Off-Bottom Pressure	130 psi	Stall Diff. Pressure	3,420 psi	
		Stall Torque	12,670 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Temperature Slope 0.000241 in/°F			Temperature Slope 0.000295 in/°F		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard						
0.5 Oversize						
1.0 Oversize	2.852	-0.026	235 - 320 °F	2.870	-0.044	270 - 375 °F
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	6756.4 mm
Contour Length	6604.0 mm
Head Length	152.4 mm
Head Diameter	86.36 mm
Major Diameter	81.89 mm
Eccentric	5.05 mm
Material	17-4 PH
Weight	220 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6985.0 mm
Contour Length	6578.6 mm
Tube O.D.	127.0 mm
Tube I.D.	101.6 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	9.3
Material	4140 HT
Weight	272 kgs
Thread Form	Contact Factory

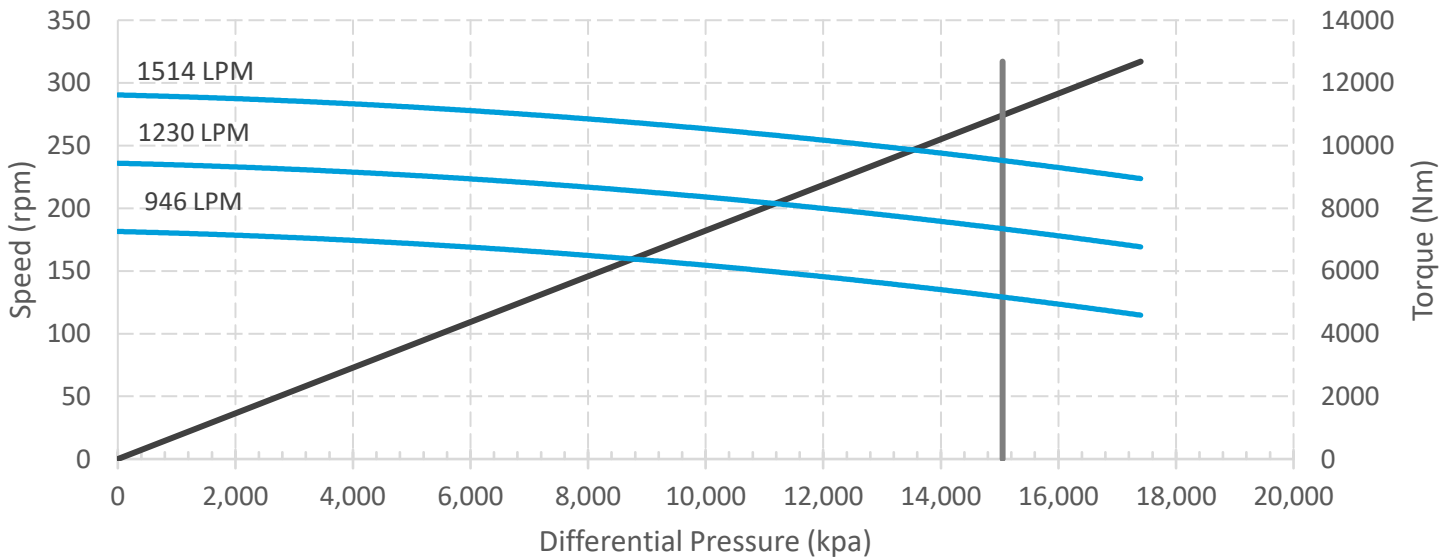
Downhole Performance Specifications

Torque Slope	0.73 Nm/kPa	Max Diff. Pressure	15031 kPa	15031 kPa
Flow Range	946 - 1514 lpm	Max Torque	10969 Nm	8853 Nm
Speed Range	181 - 290 rpm	Speed (Max Diff. & Flow)	238 rpm	204 rpm
Rotation	0.1918 rev/liter	Max HP	272 kW	190 kW
Off-Bottom Pressure	896 kPa	Stall Diff. Pressure	23580 kPa	
		Stall Torque	17178 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Temperature Slope 0.011019 mm/°C			Temperature Slope 0.013487 mm/°C		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard						
0.5 Oversize						
1.0 Oversize	72.44	-0.66	113 - 160 °C	72.90	-1.12	132 - 191 °C
1.5 Oversize						
2.0 Oversize						



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