



VIKING

Power Technologies

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Conventional Power Section

962 78 57

9.62" OD 7/8 Lobes 5.7 Stages

Rotor Specification

Overall Length	230.88 in.
Contour Length	222.00 in.
Head Length	8.88 in.
Head Diameter	5.50 in.
Major Diameter	6.373 in.
Eccentric	0.354 in.
Material	17-4 PH
Weight	1,683 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	240.00 in.
Contour Length	220.00 in.
Tube O.D.	9.62 in.
Tube I.D.	7.88 in.
Cutback (Band / Non-Band)	10.00 / 10.00 in.
Stages	5.7
Material	4140 HT
Weight	1,781 lbs.
Thread Form	Contact Factory

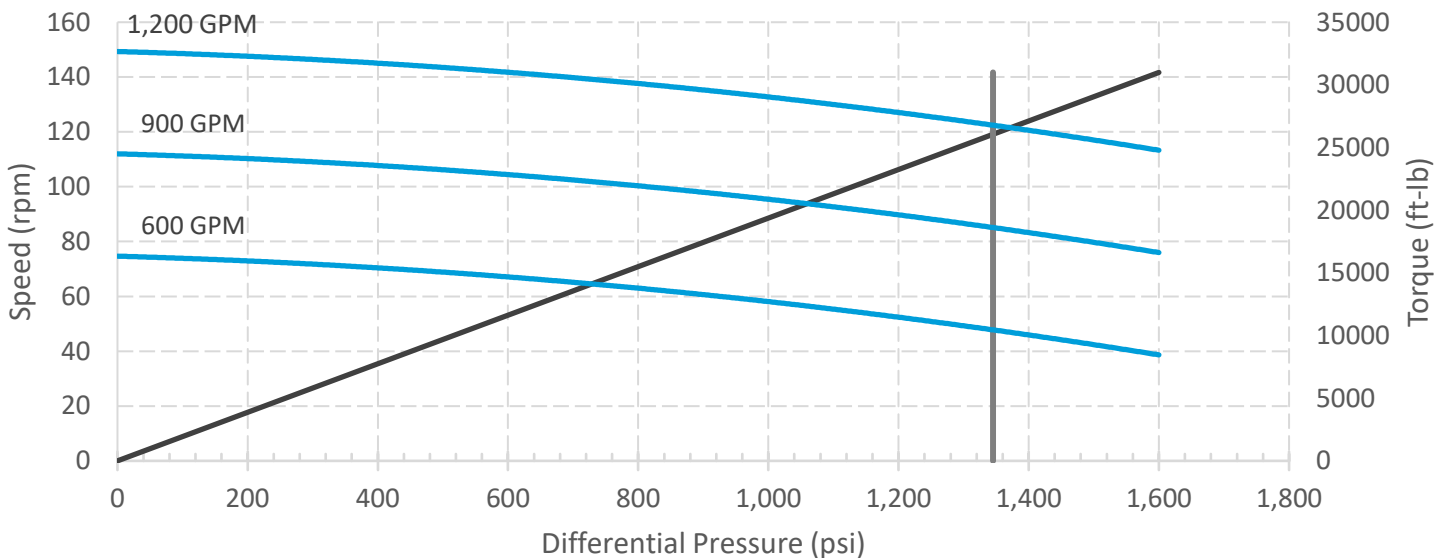
Downhole Performance Specifications

Torque Slope	19.37 ft-lbs/psi	Max Diff. Pressure	1,350 psi	1,350 psi
Flow Range	600 - 1,200 gpm	Max Torque	26,060 ft-lbs	21,020 ft-lbs
Speed Range	75 - 149 rpm	Speed (Max Diff. & Flow)	122 rpm	105 rpm
Rotation	0.124 rev/gal	Max HP	605 hp	420 hp
Off-Bottom Pressure	140 psi	Stall Diff. Pressure	2,120 psi	
		Stall Torque	41,070 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000327 in/°F			Temperature Slope 0.000400 in/°F		
1.0 Undersize						
Standard	5.660	0.005	125 - 250 °F	5.684	-0.019	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	5864.4 mm
Contour Length	5638.8 mm
Head Length	225.6 mm
Head Diameter	139.70 mm
Major Diameter	161.87 mm
Eccentric	8.99 mm
Material	17-4 PH
Weight	763 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6096.0 mm
Contour Length	5588.0 mm
Tube O.D.	244.3 mm
Tube I.D.	200.2 mm
Cutback (Band / Non-Band)	254.0 / 254.0 mm
Stages	5.7
Material	4140 HT
Weight	808 kgs
Thread Form	Contact Factory

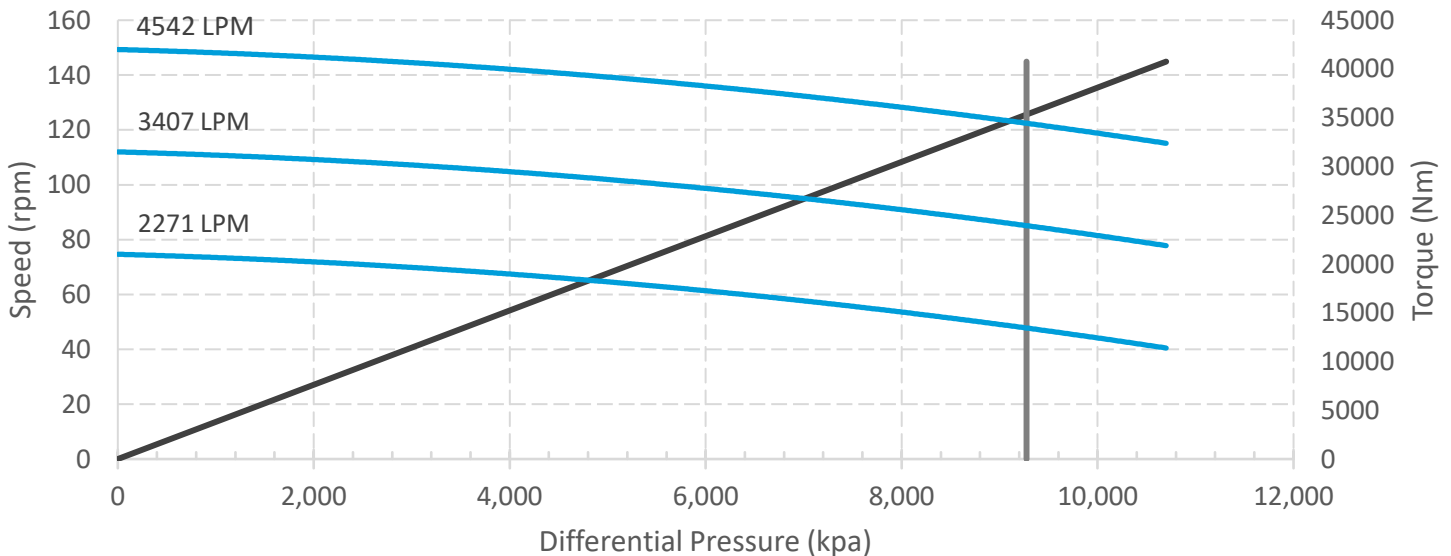
Downhole Performance Specifications

Torque Slope	3.81 Nm/kPa	Max Diff. Pressure	9308 kPa	9308 kPa
Flow Range	2271 - 4542 lpm	Max Torque	35333 Nm	28499 Nm
Speed Range	75 - 149 rpm	Speed (Max Diff. & Flow)	122 rpm	105 rpm
Rotation	0.0328 rev/liter	Max HP	451 kW	313 kW
Off-Bottom Pressure	965 kPa	Stall Diff. Pressure	14617 kPa	
		Stall Torque	55683 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	143.76	0.13	52 - 121 °C	144.37	-0.48	79 - 135 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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