



VIKING

Power Technologies

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Conventional Power Section

962 67 50

9.62" OD 6/7 Lobes 5.0 Stages

Rotor Specification

Overall Length	202.00 in.
Contour Length	195.00 in.
Head Length	7.00 in.
Head Diameter	5.50 in.
Major Diameter	6.405 in.
Eccentric	0.428 in.
Material	17-4 PH
Weight	1,389 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	218.00 in.
Contour Length	202.00 in.
Tube O.D.	9.62 in.
Tube I.D.	7.88 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	5.0
Material	4140 HT
Weight	1,621 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

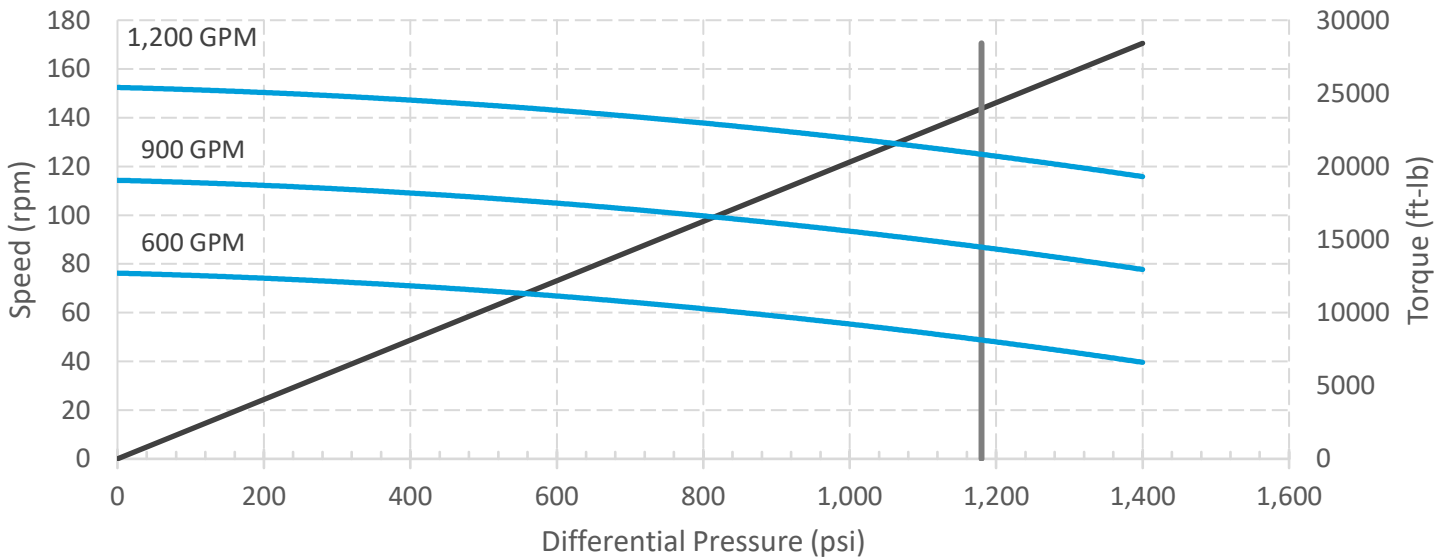
Torque Slope	20.30 ft-lbs/psi
Flow Range	600 - 1,200 gpm
Speed Range	76 - 152 rpm
Rotation	0.127 rev/gal
Off-Bottom Pressure	150 psi

Dyno Performance

Max Diff. Pressure	1,180 psi
Max Torque	23,950 ft-lbs
Speed (Max Diff. & Flow)	125 rpm
Max HP	570 hp
Stall Diff. Pressure	1,850 psi
Stall Torque	37,550 ft-lbs

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	5.519	0.030	75 - 175 °F	5.547	0.002	120 - 220 °F
0.5 Oversize						
1.0 Oversize	5.553	-0.004	145 - 265 °F	5.577	-0.028	190 - 285 °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	5130.8 mm
Contour Length	4953.0 mm
Head Length	177.8 mm
Head Diameter	139.70 mm
Major Diameter	162.69 mm
Eccentric	10.87 mm
Material	17-4 PH
Weight	630 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5537.2 mm
Contour Length	5130.8 mm
Tube O.D.	244.3 mm
Tube I.D.	200.2 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	5.0
Material	4140 HT
Weight	735 kgs
Thread Form	Contact Factory

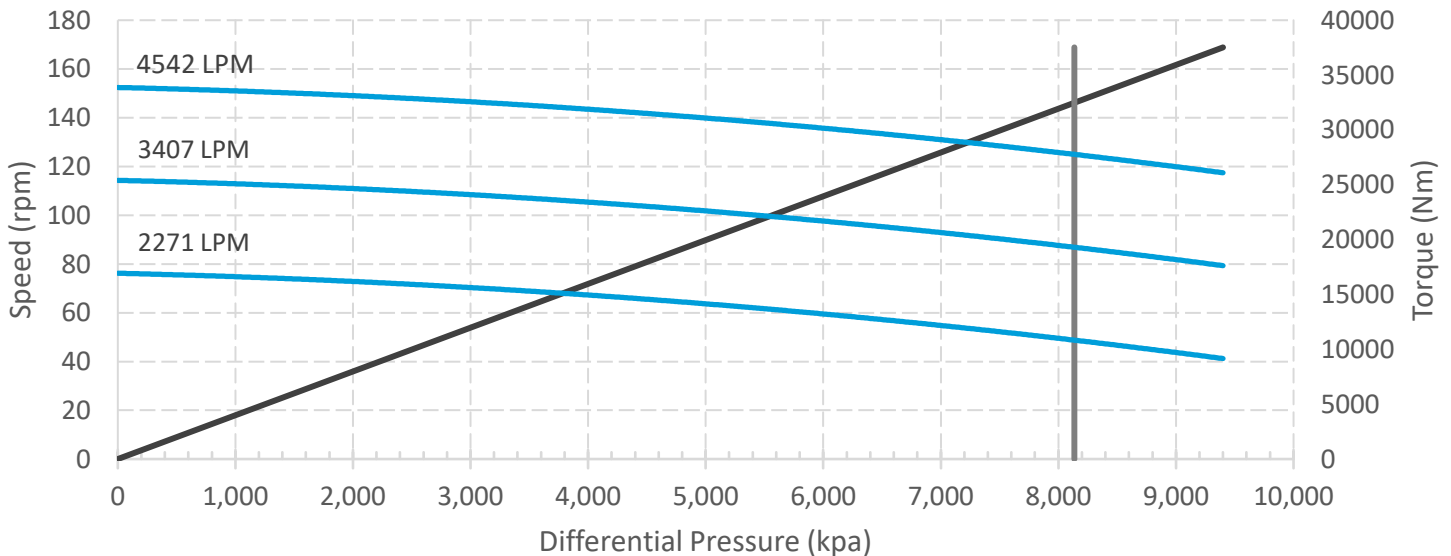
Downhole Performance Specifications

Torque Slope	3.99 Nm/kPa	Max Diff. Pressure	8136 kPa	8136 kPa
Flow Range	2271 - 4542 lpm	Max Torque	32472 Nm	26194 Nm
Speed Range	76 - 152 rpm	Speed (Max Diff. & Flow)	125 rpm	107 rpm
Rotation	0.0335 rev/liter	Max HP	425 kW	295 kW
Off-Bottom Pressure	1,034 kPa	Stall Diff. Pressure	12755 kPa	
		Stall Torque	50911 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	140.18	0.76	24 - 79 °C	140.89	0.05	49 - 104 °C
0.5 Oversize						
1.0 Oversize	141.05	-0.10	63 - 129 °C	141.66	-0.71	88 - 141 °C
1.5 Oversize						
2.0 Oversize						



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