



VIKING

Power Technologies

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Conventional Power Section

800 67 40

8.00" OD 6/7 Lobes 4.0 Stages

Rotor Specification

Overall Length	197.00 in.
Contour Length	190.00 in.
Head Length	7.00 in.
Head Diameter	4.75 in.
Major Diameter	4.958 in.
Eccentric	0.336 in.
Material	17-4 PH
Weight	807 lbs.
Thread Form	Contact Factory

Stator Specification

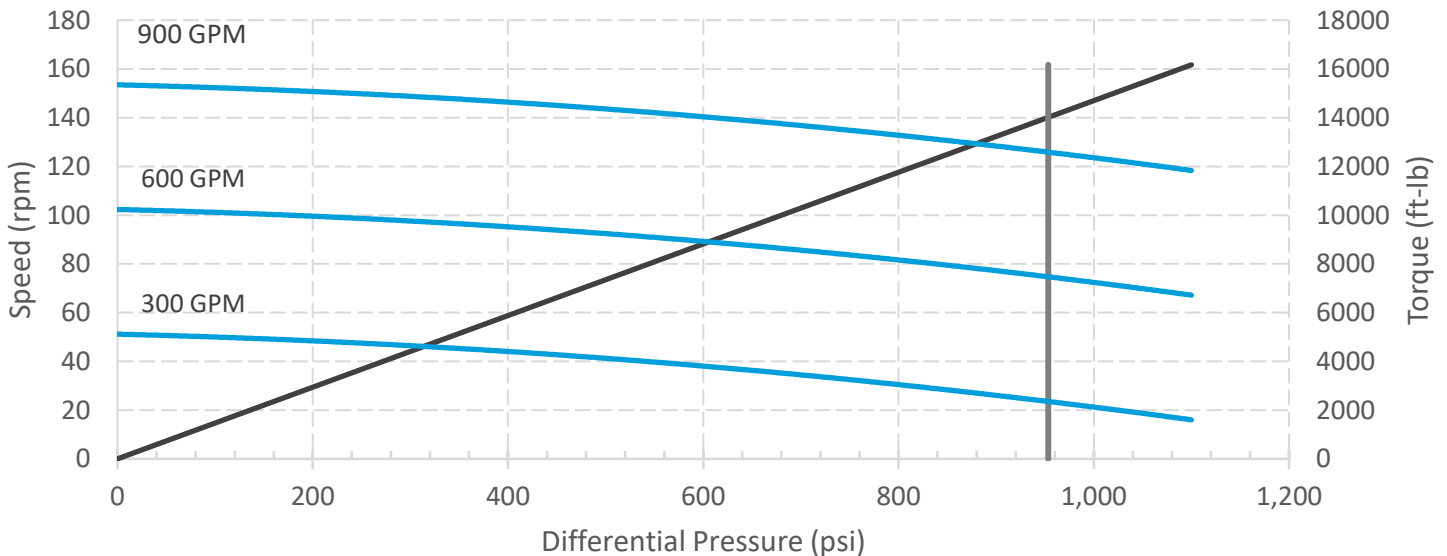
Overall Length	206.00 in.
Contour Length	190.00 in.
Tube O.D.	8.00 in.
Tube I.D.	6.25 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	4.0
Material	4140 HT
Weight	1,241 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

Torque Slope	14.70 ft-lbs/psi	Max Diff. Pressure	950 psi	Dyno Performance	950 psi
Flow Range	300 - 900 gpm	Max Torque	14,010 ft-lbs		11,300 ft-lbs
Speed Range	51 - 153 rpm	Speed (Max Diff. & Flow)	126 rpm		108 rpm
Rotation	0.171 rev/gal	Max HP	335 hp		235 hp
Off-Bottom Pressure	110 psi	Stall Diff. Pressure	1,490 psi		
		Stall Torque	21,900 ft-lbs		

Elastomer Performance

	007			VPX		
	Temperature Slope 0.000320 in/°F			Temperature Slope 0.000391 in/°F		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	4.276	0.010	100 - 215 °F	4.299	-0.013	155 - 245 °F
Standard	4.290	-0.004	145 - 260 °F	4.314	-0.028	195 - 285 °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	5003.8 mm
Contour Length	4826.0 mm
Head Length	177.8 mm
Head Diameter	120.65 mm
Major Diameter	125.93 mm
Eccentric	8.53 mm
Material	17-4 PH
Weight	366 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5232.4 mm
Contour Length	4826.0 mm
Tube O.D.	203.2 mm
Tube I.D.	158.8 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	4.0
Material	4140 HT
Weight	563 kgs
Thread Form	Contact Factory

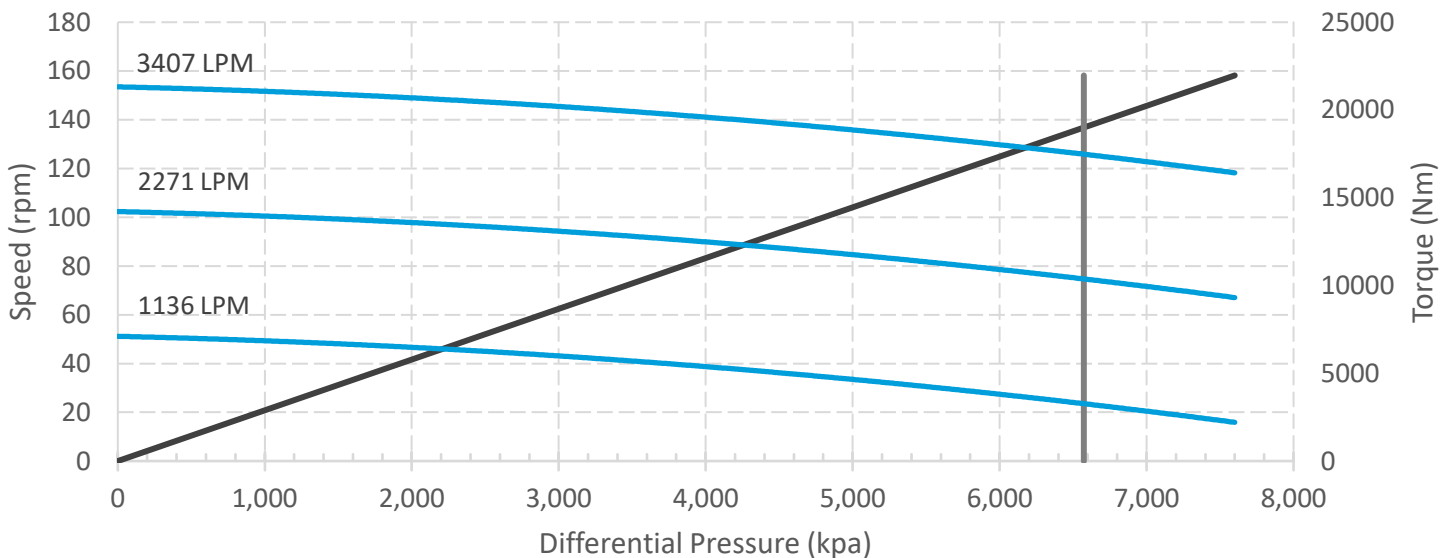
Downhole Performance Specifications

Torque Slope	2.89 Nm/kPa	Max Diff. Pressure	6550 kPa	6550 kPa
Flow Range	1136 - 3407 lpm	Max Torque	18995 Nm	15321 Nm
Speed Range	51 - 153 rpm	Speed (Max Diff. & Flow)	126 rpm	108 rpm
Rotation	0.0452 rev/liter	Max HP	250 kW	175 kW
Off-Bottom Pressure	758 kPa	Stall Diff. Pressure	10273 kPa	
		Stall Torque	29692 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Temperature Slope 0.014630 mm/°C			Temperature Slope 0.017877 mm/°C		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	108.61	0.25	38 - 102 °C	109.19	-0.33	68 - 118 °C
Standard	108.97	-0.10	63 - 127 °C	109.58	-0.71	91 - 141 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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