



VIKING

Power Technologies

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Conventional Power Section

800 78 40

8.00" OD 7/8 Lobes 4.0 Stages

Rotor Specification

Overall Length	195.25 in.
Contour Length	188.25 in.
Head Length	7.00 in.
Head Diameter	4.75 in.
Major Diameter	5.186 in.
Eccentric	0.293 in.
Material	17-4 PH
Weight	946 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	203.25 in.
Contour Length	187.25 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	1,202 lbs.
Thread Form	Contact Factory

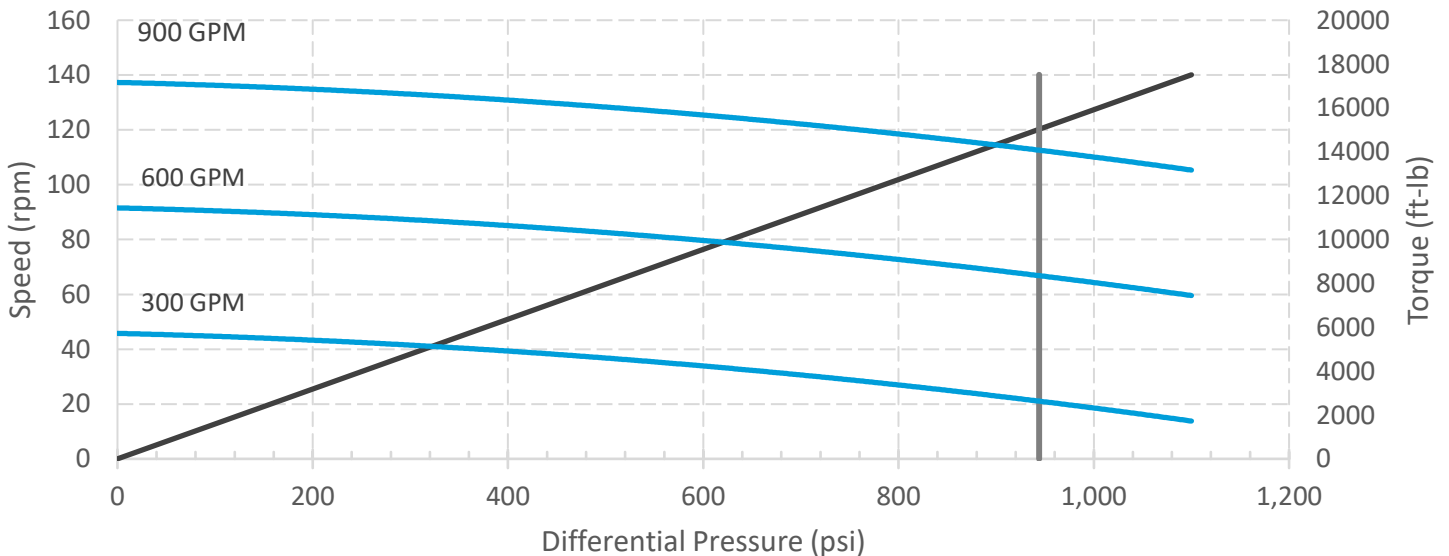
Downhole Performance Specifications

Torque Slope	15.92 ft-lbs/psi	Max Diff. Pressure	940 psi	940 psi
Flow Range	300 - 900 gpm	Max Torque	15,030 ft-lbs	12,120 ft-lbs
Speed Range	46 - 137 rpm	Speed (Max Diff. & Flow)	113 rpm	97 rpm
Rotation	0.153 rev/gal	Max HP	320 hp	225 hp
Off-Bottom Pressure	100 psi	Stall Diff. Pressure	1,470 psi	
		Stall Torque	23,400 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000260 in/°F			Temperature Slope 0.000318 in/°F		
1.0 Undersize	4.588	0.012	90 - 205 °F	4.607	-0.007	145 - 240 °F
Standard	4.607	-0.007	160 - 280 °F	4.626	-0.026	205 - 300 °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	4959.4 mm
Contour Length	4781.6 mm
Head Length	177.8 mm
Head Diameter	120.65 mm
Major Diameter	131.72 mm
Eccentric	7.44 mm
Material	17-4 PH
Weight	429 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5162.6 mm
Contour Length	4756.2 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	545 kgs
Thread Form	Contact Factory

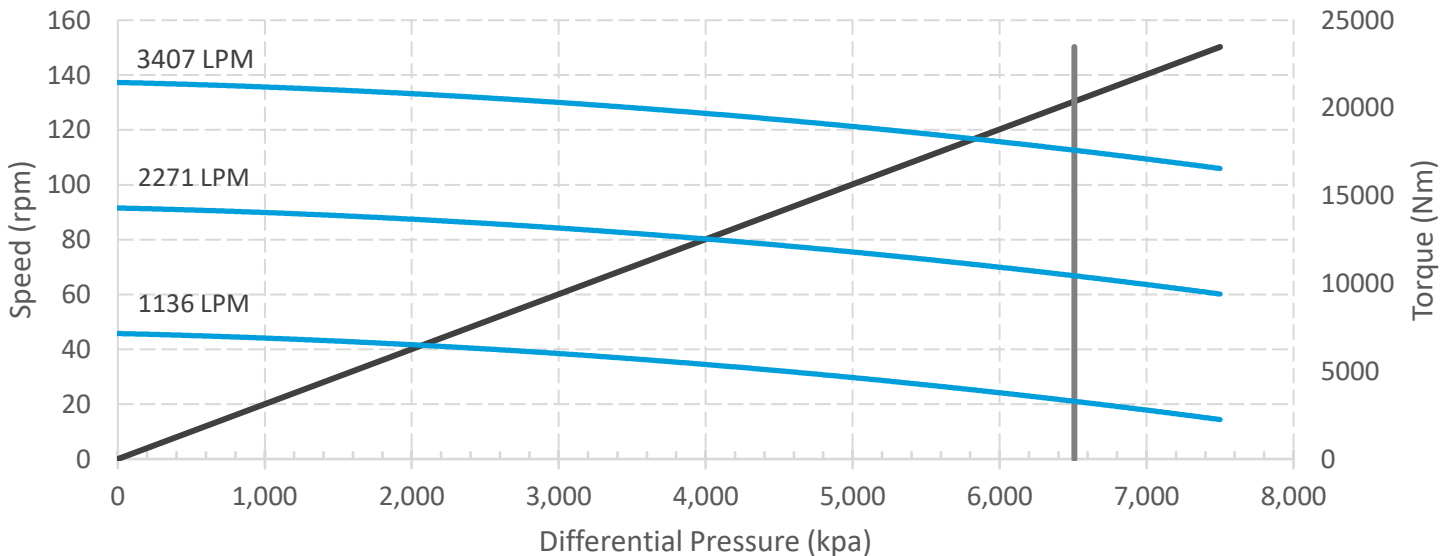
Downhole Performance Specifications

Torque Slope	3.13 Nm/kPa	Max Diff. Pressure	6481 kPa	6481 kPa
Flow Range	1136 - 3407 lpm	Max Torque	20378 Nm	16433 Nm
Speed Range	46 - 137 rpm	Speed (Max Diff. & Flow)	113 rpm	97 rpm
Rotation	0.0404 rev/liter	Max HP	239 kW	168 kW
Off-Bottom Pressure	689 kPa	Stall Diff. Pressure	10135 kPa	
		Stall Torque	31726 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Temperature Slope 0.011887 mm/°C			Temperature Slope 0.014539 mm/°C		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	116.54	0.30	32 - 96 °C	117.02	-0.18	63 - 116 °C
Standard	117.02	-0.18	71 - 138 °C	117.50	-0.66	96 - 149 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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