



VIKING

Power Technologies

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Conventional Power Section

800 45 36

8.00" OD 4/5 Lobes 3.6 Stages

Rotor Specification

Overall Length	153.00 in.
Contour Length	146.00 in.
Head Length	7.00 in.
Head Diameter	4.75 in.
Major Diameter	4.940 in.
Eccentric	0.415 in.
Material	17-4 PH
Weight	604 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	160.00 in.
Contour Length	144.00 in.
Tube O.D.	8.00 in.
Tube I.D.	6.25 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	3.6
Material	4140 HT
Weight	956 lbs.
Thread Form	Contact Factory

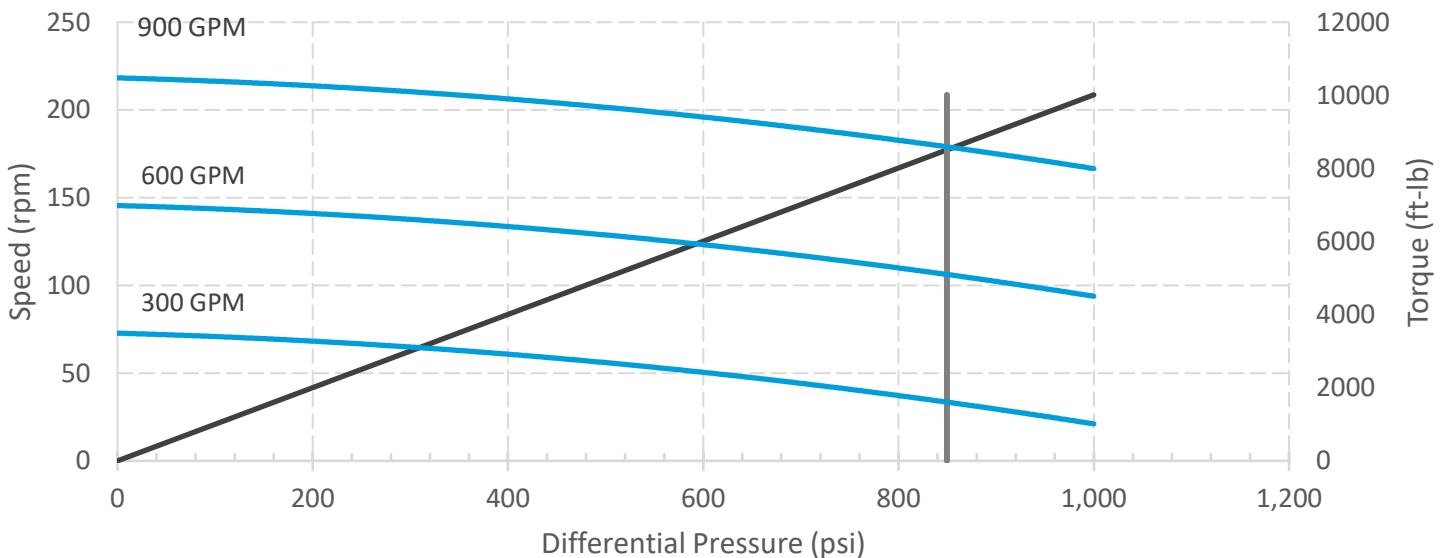
Downhole Performance Specifications

Torque Slope	10.01 ft-lbs/psi	Max Diff. Pressure	850 psi	850 psi
Flow Range	300 - 900 gpm	Max Torque	8,510 ft-lbs	6,860 ft-lbs
Speed Range	73 - 218 rpm	Speed (Max Diff. & Flow)	179 rpm	154 rpm
Rotation	0.243 rev/gal	Max HP	290 hp	200 hp
Off-Bottom Pressure	80 psi	Stall Diff. Pressure	1,330 psi	
		Stall Torque	13,320 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	4.104	0.006	120 - 240 °F	4.128	-0.018	170 - 270 °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	3886.2 mm
Contour Length	3708.4 mm
Head Length	177.8 mm
Head Diameter	120.65 mm
Major Diameter	125.48 mm
Eccentric	10.54 mm
Material	17-4 PH
Weight	274 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	4064.0 mm
Contour Length	3657.6 mm
Tube O.D.	203.2 mm
Tube I.D.	158.8 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	3.6
Material	4140 HT
Weight	434 kgs
Thread Form	Contact Factory

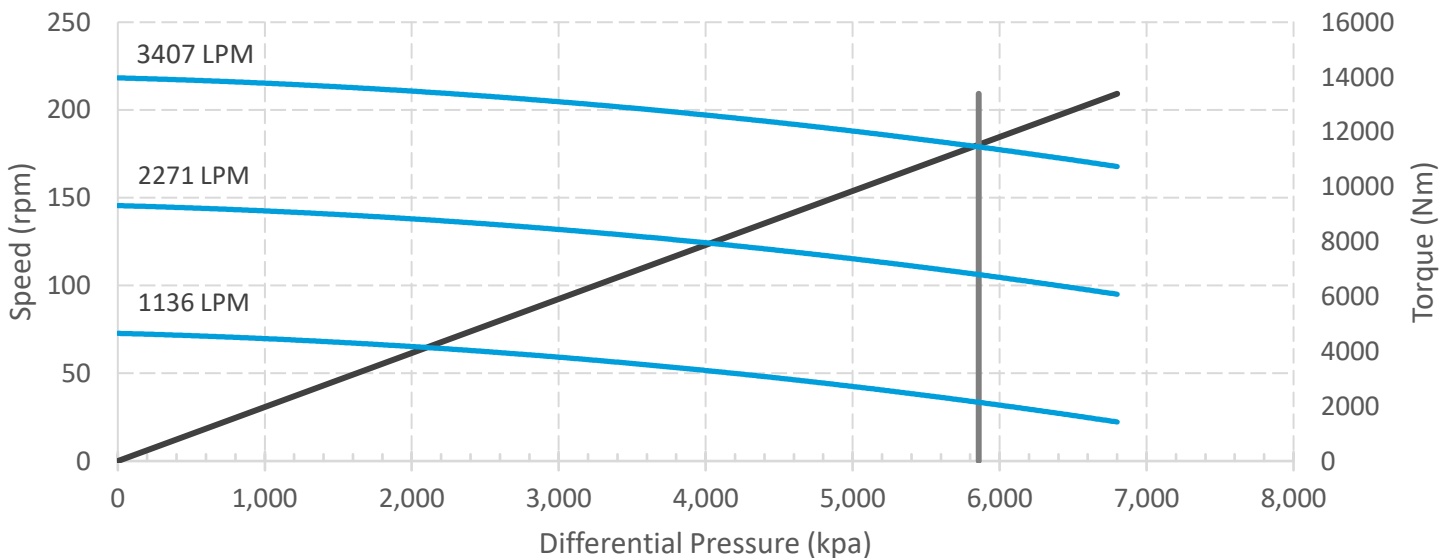
Downhole Performance Specifications

Torque Slope	1.97 Nm/kPa	Max Diff. Pressure	5861 kPa	5861 kPa
Flow Range	1136 - 3407 lpm	Max Torque	11538 Nm	9301 Nm
Speed Range	73 - 218 rpm	Speed (Max Diff. & Flow)	179 rpm	154 rpm
Rotation	0.0642 rev/liter	Max HP	216 kW	149 kW
Off-Bottom Pressure	552 kPa	Stall Diff. Pressure	9170 kPa	
		Stall Torque	18059 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	104.24	0.15	49 - 116 °C	104.85	-0.46	77 - 132 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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