



VIKING

Power Technologies

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Conventional Power Section

800 45 53

8.00" OD 4/5 Lobes 5.3 Stages

Rotor Specification

Overall Length	221.00 in.
Contour Length	213.00 in.
Head Length	8.00 in.
Head Diameter	4.75 in.
Major Diameter	4.940 in.
Eccentric	0.415 in.
Material	17-4 PH
Weight	870 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	228.00 in.
Contour Length	212.00 in.
Tube O.D.	8.00 in.
Tube I.D.	6.25 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	5.3
Material	4140 HT
Weight	1,366 lbs.
Thread Form	Contact Factory

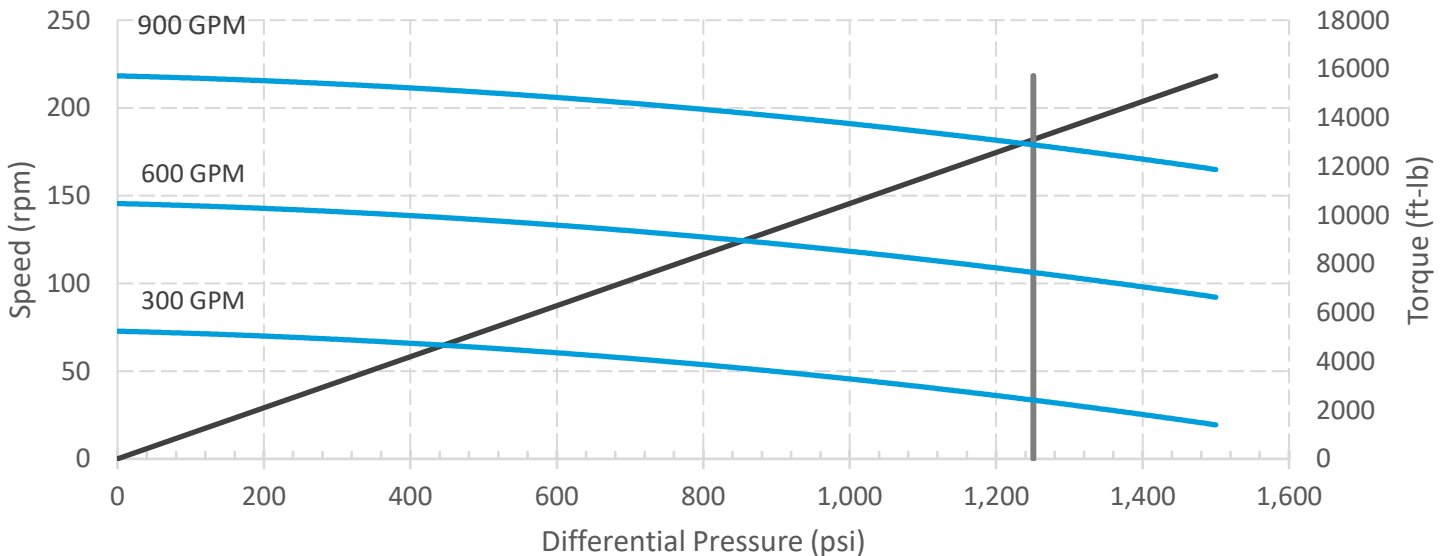
Downhole Performance Specifications

Torque Slope	10.48 ft-lbs/psi	Max Diff. Pressure	1,250 psi	1,250 psi
Flow Range	300 - 900 gpm	Max Torque	13,100 ft-lbs	10,570 ft-lbs
Speed Range	73 - 218 rpm	Speed (Max Diff. & Flow)	179 rpm	154 rpm
Rotation	0.243 rev/gal	Max HP	445 hp	310 hp
Off-Bottom Pressure	125 psi	Stall Diff. Pressure	1,960 psi	
		Stall Torque	20,530 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	4.107	0.003	125 - 250 °F	4.131	-0.021	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	5613.4 mm
Contour Length	5410.2 mm
Head Length	203.2 mm
Head Diameter	120.65 mm
Major Diameter	125.48 mm
Eccentric	10.54 mm
Material	17-4 PH
Weight	395 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5791.2 mm
Contour Length	5384.8 mm
Tube O.D.	203.2 mm
Tube I.D.	158.8 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	5.3
Material	4140 HT
Weight	619 kgs
Thread Form	Contact Factory

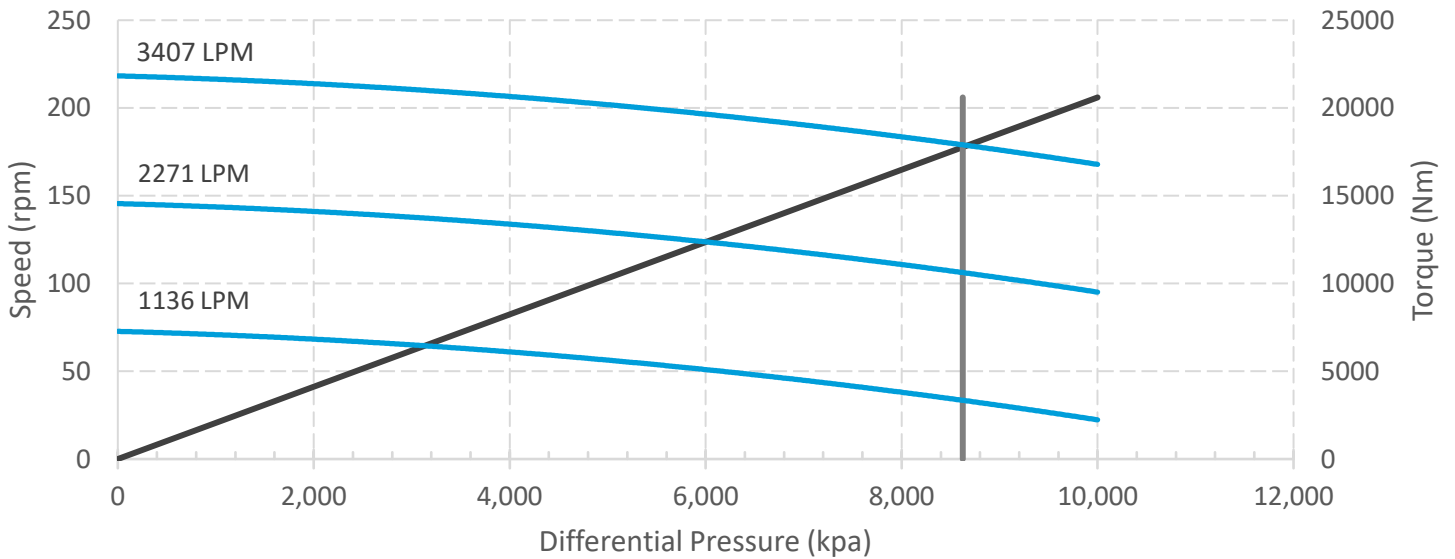
Downhole Performance Specifications

Torque Slope	2.06 Nm/kPa	Max Diff. Pressure	8618 kPa	8618 kPa
Flow Range	1136 - 3407 lpm	Max Torque	17761 Nm	14331 Nm
Speed Range	73 - 218 rpm	Speed (Max Diff. & Flow)	179 rpm	154 rpm
Rotation	0.0642 rev/liter	Max HP	332 kW	231 kW
Off-Bottom Pressure	862 kPa	Stall Diff. Pressure	13514 kPa	
		Stall Torque	27835 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	104.32	0.08	52 - 121 °C	104.93	-0.53	79 - 135 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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