



VIKING

Power Technologies

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Conventional Power Section

500 67 80

5.00" OD 6/7 Lobes 8.0 Stages

Rotor Specification

Overall Length	241.00 in.
Contour Length	235.00 in.
Head Length	6.00 in.
Head Diameter	3.31 in.
Major Diameter	3.018 in.
Eccentric	0.192 in.
Material	17-4 PH
Weight	386 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	250.00 in.
Contour Length	234.00 in.
Tube O.D.	5.00 in.
Tube I.D.	4.00 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	8.0
Material	4140 HT
Weight	554 lbs.
Thread Form	Contact Factory

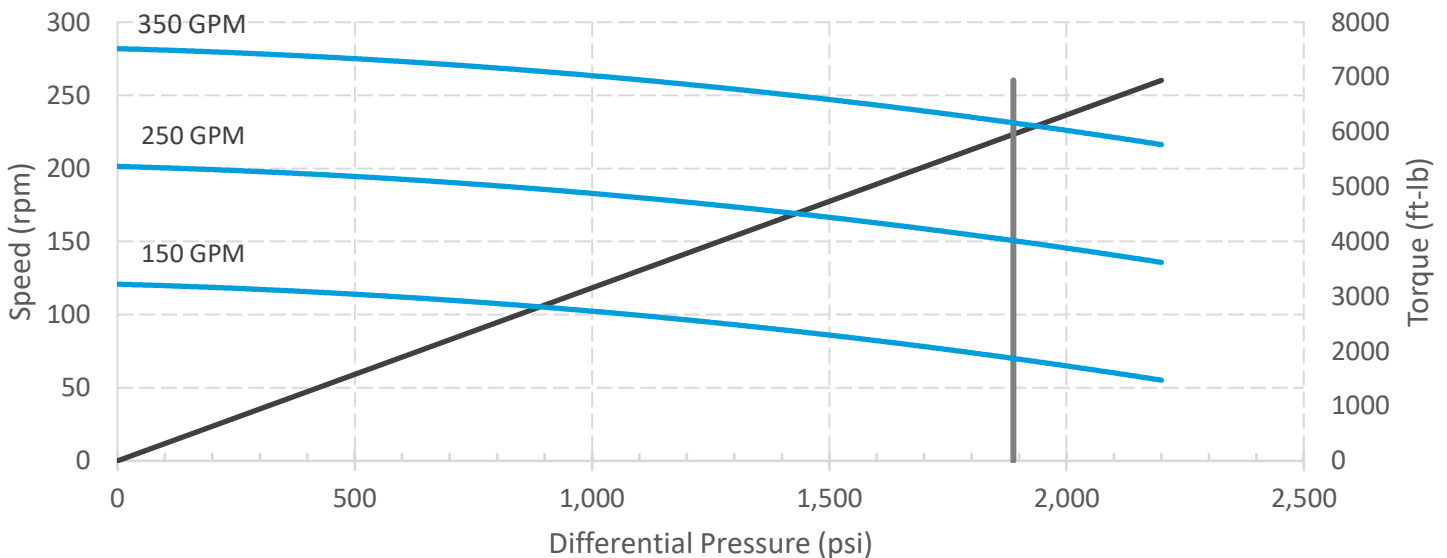
Downhole Performance Specifications

Torque Slope	3.15 ft-lbs/psi	Max Diff. Pressure	1,890 psi	1,890 psi
Flow Range	150 - 350 gpm	Max Torque	5,960 ft-lbs	4,810 ft-lbs
Speed Range	121 - 282 rpm	Speed (Max Diff. & Flow)	231 rpm	198 rpm
Rotation	0.806 rev/gal	Max HP	260 hp	180 hp
Off-Bottom Pressure	115 psi	Stall Diff. Pressure	2,970 psi	
		Stall Torque	9,370 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	2.638	-0.004	140 - 240 °F	2.656	-0.022	185 - 265 °F
0.5 Oversize						
1.0 Oversize	2.661	-0.027	230 - 320 °F	2.680	-0.046	260 - 340 °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	6121.4 mm
Contour Length	5969.0 mm
Head Length	152.4 mm
Head Diameter	84.07 mm
Major Diameter	76.66 mm
Eccentric	4.88 mm
Material	17-4 PH
Weight	175 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6350.0 mm
Contour Length	5943.6 mm
Tube O.D.	127.0 mm
Tube I.D.	101.6 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	8.0
Material	4140 HT
Weight	251 kgs
Thread Form	Contact Factory

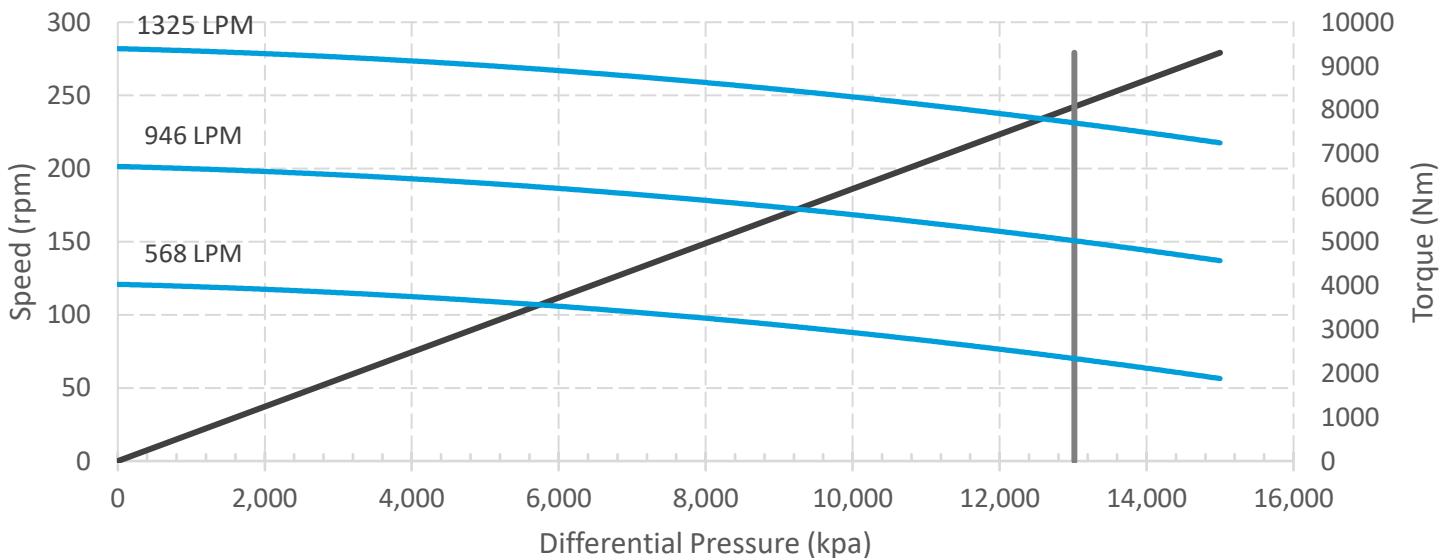
Downhole Performance Specifications

Torque Slope	0.62 Nm/kPa	Max Diff. Pressure	13031 kPa	13031 kPa
Flow Range	568 - 1325 lpm	Max Torque	8081 Nm	6521 Nm
Speed Range	121 - 282 rpm	Speed (Max Diff. & Flow)	231 rpm	198 rpm
Rotation	0.2129 rev/liter	Max HP	194 kW	134 kW
Off-Bottom Pressure	793 kPa	Stall Diff. Pressure	20477 kPa	
		Stall Torque	12704 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	67.01	-0.10	60 - 116 °C	67.46	-0.56	85 - 129 °C
0.5 Oversize						
1.0 Oversize	67.59	-0.69	110 - 160 °C	68.07	-1.17	127 - 171 °C
1.5 Oversize						
2.0 Oversize						



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