



VIKING

Power Technologies

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Conventional Power Section

662 67 78

6.62" OD 6/7 Lobes 7.8 Stages

Rotor Specification

Overall Length	268.00 in.
Contour Length	261.00 in.
Head Length	7.00 in.
Head Diameter	4.25 in.
Major Diameter	4.651 in.
Eccentric	0.289 in.
Material	17-4 PH
Weight	1,013 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	275.00 in.
Contour Length	251.00 in.
Tube O.D.	6.62 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	12.00 / 12.00 in.
Stages	7.8
Material	4140 HT
Weight	902 lbs.
Thread Form	Contact Factory

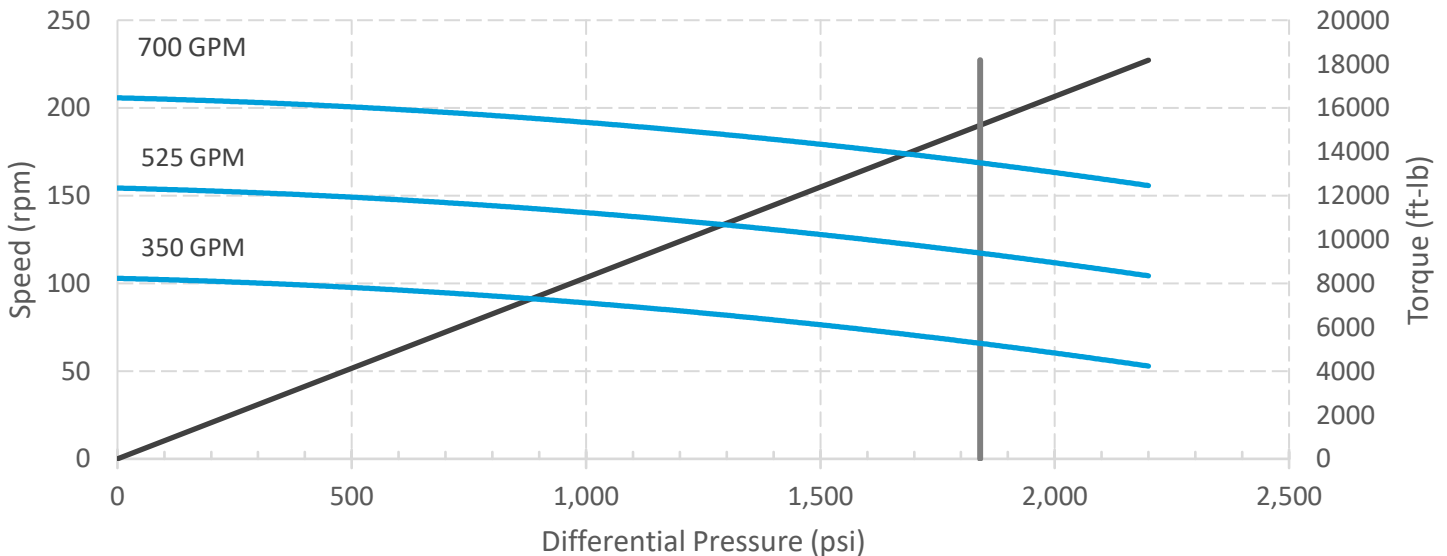
Downhole Performance Specifications

Torque Slope	8.26 ft-lbs/psi	Max Diff. Pressure	1,840 psi	1,840 psi
Flow Range	350 - 700 gpm	Max Torque	15,210 ft-lbs	12,270 ft-lbs
Speed Range	103 - 206 rpm	Speed (Max Diff. & Flow)	169 rpm	145 rpm
Rotation	0.294 rev/gal	Max HP	490 hp	340 hp
Off-Bottom Pressure	140 psi	Stall Diff. Pressure	2,890 psi	
		Stall Torque	23,880 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	4.067	0.006	110 - 225 °F	4.087	-0.014	165 - 255 °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	6807.2 mm
Contour Length	6629.4 mm
Head Length	177.8 mm
Head Diameter	107.95 mm
Major Diameter	118.14 mm
Eccentric	7.34 mm
Material	17-4 PH
Weight	460 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6985.0 mm
Contour Length	6375.4 mm
Tube O.D.	168.1 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	304.8 / 304.8 mm
Stages	7.8
Material	4140 HT
Weight	409 kgs
Thread Form	Contact Factory

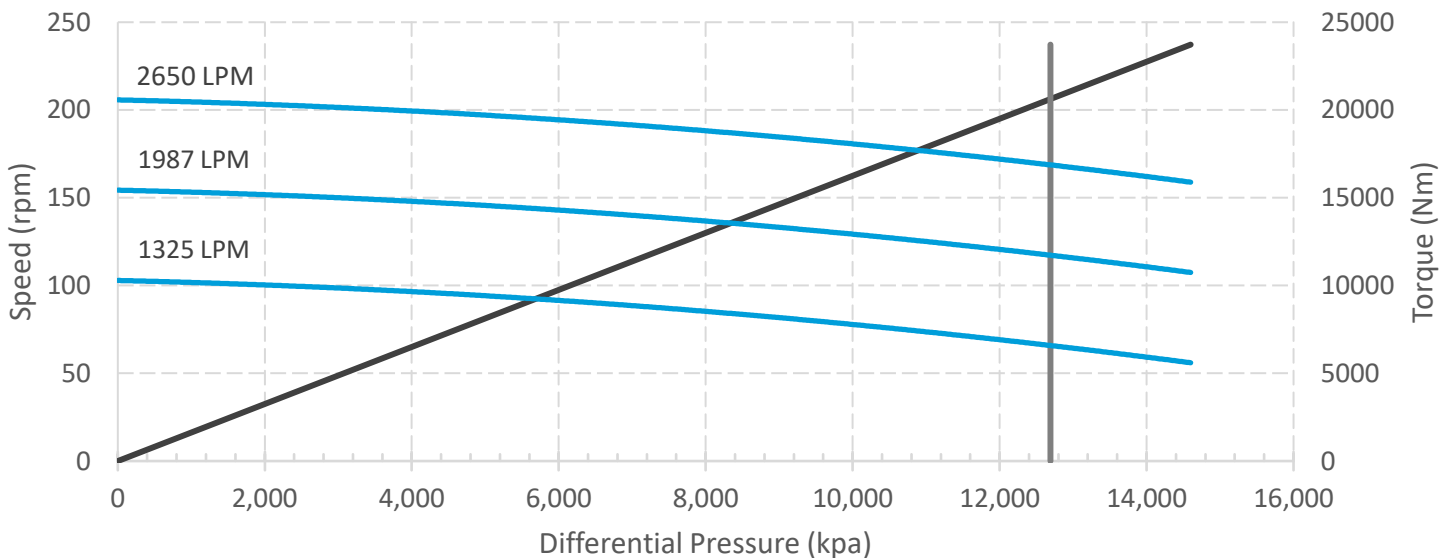
Downhole Performance Specifications

Torque Slope	1.62 Nm/kPa	Max Diff. Pressure	12686 kPa	12686 kPa
Flow Range	1325 - 2650 lpm	Max Torque	20622 Nm	16636 Nm
Speed Range	103 - 206 rpm	Speed (Max Diff. & Flow)	169 rpm	145 rpm
Rotation	0.0777 rev/liter	Max HP	365 kW	254 kW
Off-Bottom Pressure	965 kPa	Stall Diff. Pressure	19926 kPa	
		Stall Torque	32377 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	103.30	0.15	43 - 107 °C	103.81	-0.36	74 - 124 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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