



VIKING

Power Technologies

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Conventional Power Section

525 67 109

5.25" OD 6/7 Lobes 10.9 Stages

Rotor Specification

Overall Length	269.00 in.
Contour Length	258.00 in.
Head Length	11.00 in.
Head Diameter	3.50 in.
Major Diameter	3.419 in.
Eccentric	0.215 in.
Material	17-4 PH
Weight	557 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	275.00 in.
Contour Length	250.00 in.
Tube O.D.	5.25 in.
Tube I.D.	4.00 in.
Cutback (Band / Non-Band)	12.50 / 12.50 in.
Stages	10.9
Material	4140 HT
Weight	743 lbs.
Thread Form	Contact Factory

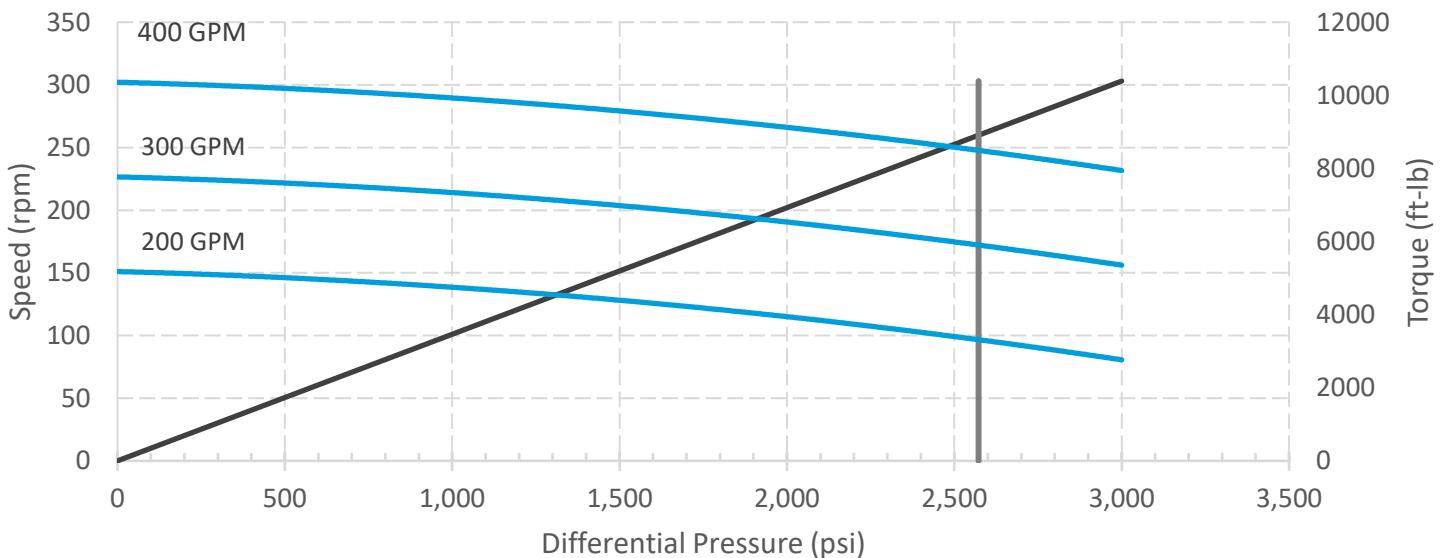
Downhole Performance Specifications

Torque Slope	3.46 ft-lbs/psi	Max Diff. Pressure	2,570 psi	2,570 psi
Flow Range	200 - 400 gpm	Max Torque	8,910 ft-lbs	7,190 ft-lbs
Speed Range	151 - 302 rpm	Speed (Max Diff. & Flow)	248 rpm	213 rpm
Rotation	0.755 rev/gal	Max HP	420 hp	290 hp
Off-Bottom Pressure	165 psi	Stall Diff. Pressure	4,030 psi	
		Stall Torque	13,960 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	2.989	0.000	125 - 230 °F	3.007	-0.018	175 - 260 °F
0.5 Oversize						
1.0 Oversize						
1.5 Oversize	3.018	-0.029	245 - 320 °F	3.036	-0.047	275 - 355 °F
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	6832.6 mm
Contour Length	6553.2 mm
Head Length	279.4 mm
Head Diameter	88.90 mm
Major Diameter	86.84 mm
Eccentric	5.46 mm
Material	17-4 PH
Weight	253 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6985.0 mm
Contour Length	6350.0 mm
Tube O.D.	133.4 mm
Tube I.D.	101.6 mm
Cutback (Band / Non-Band)	317.5 / 317.5 mm
Stages	10.9
Material	4140 HT
Weight	337 kgs
Thread Form	Contact Factory

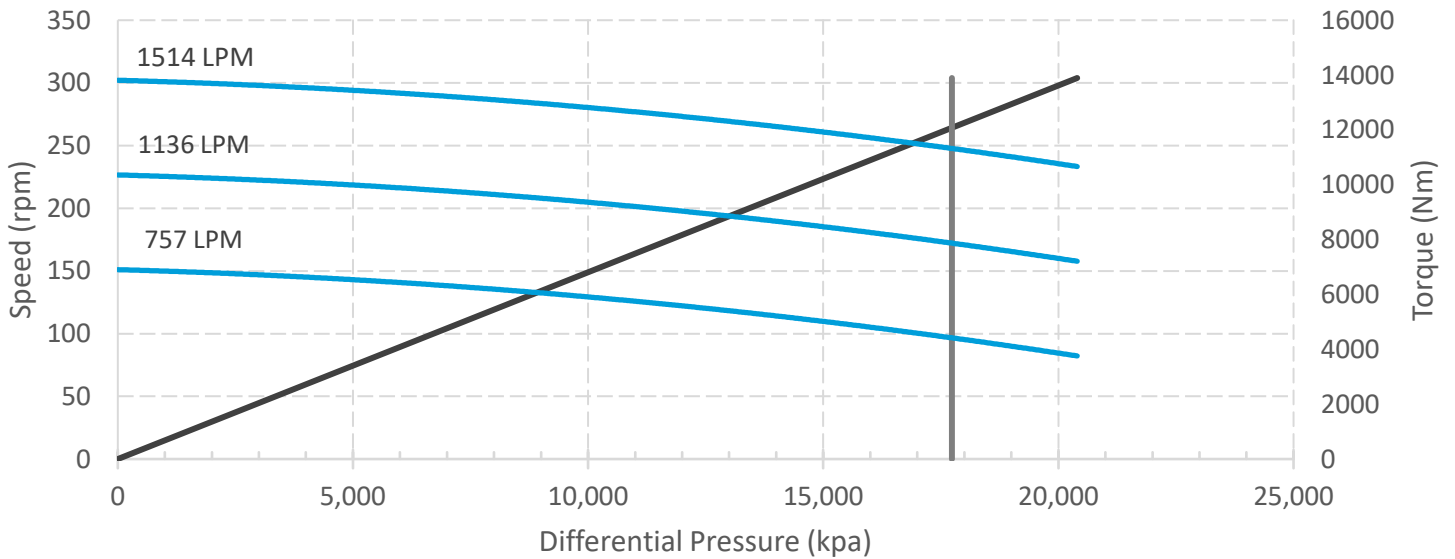
Downhole Performance Specifications

Torque Slope	0.68 Nm/kPa	Max Diff. Pressure	17720 kPa	17720 kPa
Flow Range	757 - 1514 lpm	Max Torque	12080 Nm	9748 Nm
Speed Range	151 - 302 rpm	Speed (Max Diff. & Flow)	248 rpm	213 rpm
Rotation	0.1994 rev/liter	Max HP	313 kW	216 kW
Off-Bottom Pressure	1,138 kPa	Stall Diff. Pressure	27786 kPa	
		Stall Torque	18927 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.011156 mm/°C			Temperature Slope 0.013625 mm/°C		
1.0 Undersize						
Standard	75.92	0.00	52 - 110 °C	76.38	-0.46	79 - 127 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize	76.66	-0.74	118 - 160 °C	77.11	-1.19	135 - 179 °C
2.0 Oversize						



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