



VIKING

Power Technologies

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Conventional Power Section

675 78 57

6.75" OD 7/8 Lobes 5.7 Stages

Rotor Specification

Overall Length	252.00 in.
Contour Length	245.00 in.
Head Length	7.00 in.
Head Diameter	4.50 in.
Major Diameter	4.644 in.
Eccentric	0.247 in.
Material	17-4 PH
Weight	994 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	260.00 in.
Contour Length	244.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	5.7
Material	4140 HT
Weight	955 lbs.
Thread Form	Contact Factory

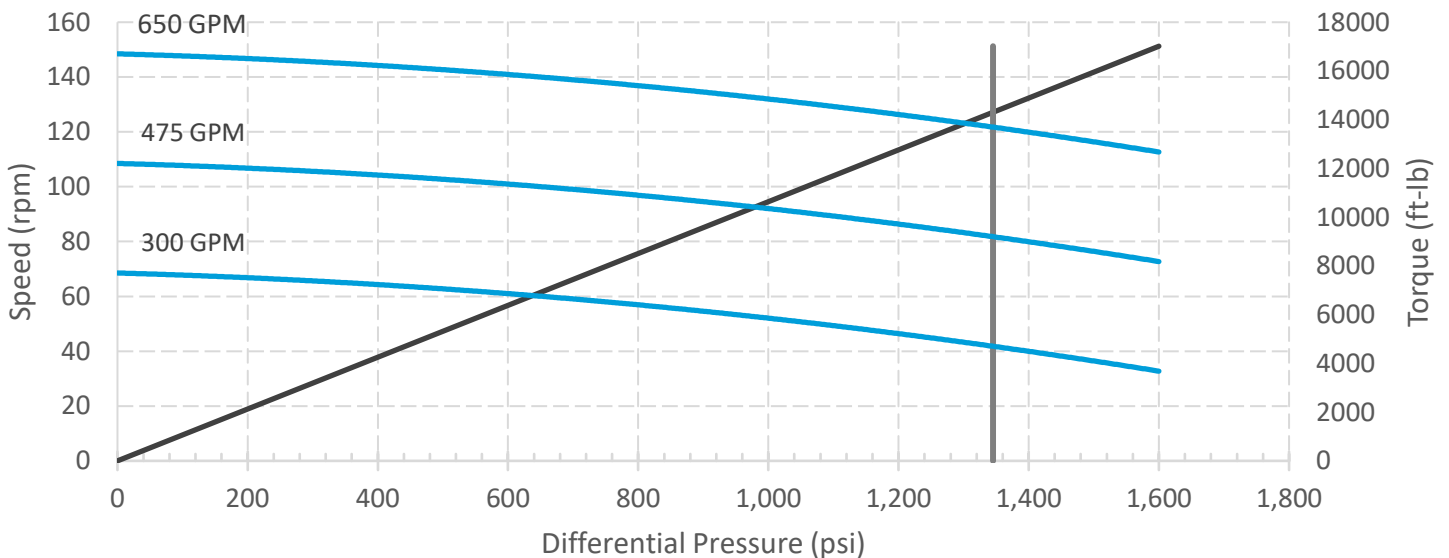
Downhole Performance Specifications

Torque Slope	10.63 ft-lbs/psi	Max Diff. Pressure	1,350 psi	1,350 psi
Flow Range	300 - 650 gpm	Max Torque	14,310 ft-lbs	11,540 ft-lbs
Speed Range	69 - 148 rpm	Speed (Max Diff. & Flow)	122 rpm	105 rpm
Rotation	0.228 rev/gal	Max HP	330 hp	230 hp
Off-Bottom Pressure	105 psi	Stall Diff. Pressure	2,120 psi	
		Stall Torque	22,540 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000232 in/°F			Temperature Slope 0.000283 in/°F		
1.0 Undersize	4.143	0.007	110 - 235 °F	4.161	-0.011	165 - 270 °F
Standard	4.154	-0.004	155 - 285 °F	4.170	-0.020	195 - 300 °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	6400.8 mm
Contour Length	6223.0 mm
Head Length	177.8 mm
Head Diameter	114.30 mm
Major Diameter	117.96 mm
Eccentric	6.27 mm
Material	17-4 PH
Weight	451 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6604.0 mm
Contour Length	6197.6 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	5.7
Material	4140 HT
Weight	433 kgs
Thread Form	Contact Factory

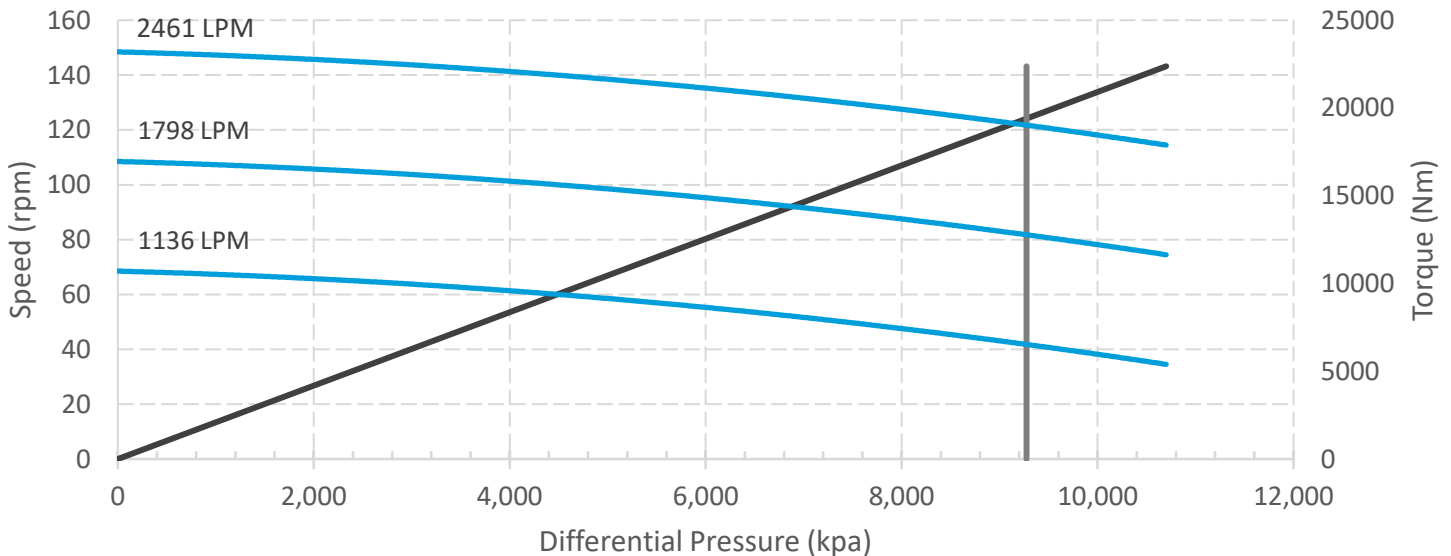
Downhole Performance Specifications

Torque Slope	2.09 Nm/kPa	Max Diff. Pressure	9308 kPa	9308 kPa
Flow Range	1136 - 2461 lpm	Max Torque	19402 Nm	15646 Nm
Speed Range	69 - 148 rpm	Speed (Max Diff. & Flow)	122 rpm	105 rpm
Rotation	0.0602 rev/liter	Max HP	246 kW	172 kW
Off-Bottom Pressure	724 kPa	Stall Diff. Pressure	14617 kPa	
		Stall Torque	30560 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Temperature Slope 0.010607 mm/°C			Temperature Slope 0.012939 mm/°C		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	105.23	0.18	43 - 113 °C	105.69	-0.28	74 - 132 °C
Standard	105.51	-0.10	68 - 141 °C	105.92	-0.51	91 - 149 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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