



VIKING

Power Technologies

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Conventional Power Section

675 67 50

6.75" OD 6/7 Lobes 5.0 Stages

Rotor Specification

Overall Length	194.00 in.
Contour Length	188.00 in.
Head Length	6.00 in.
Head Diameter	4.00 in.
Major Diameter	4.317 in.
Eccentric	0.288 in.
Material	17-4 PH
Weight	605 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	200.00 in.
Contour Length	184.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	5.0
Material	4140 HT
Weight	754 lbs.
Thread Form	Contact Factory

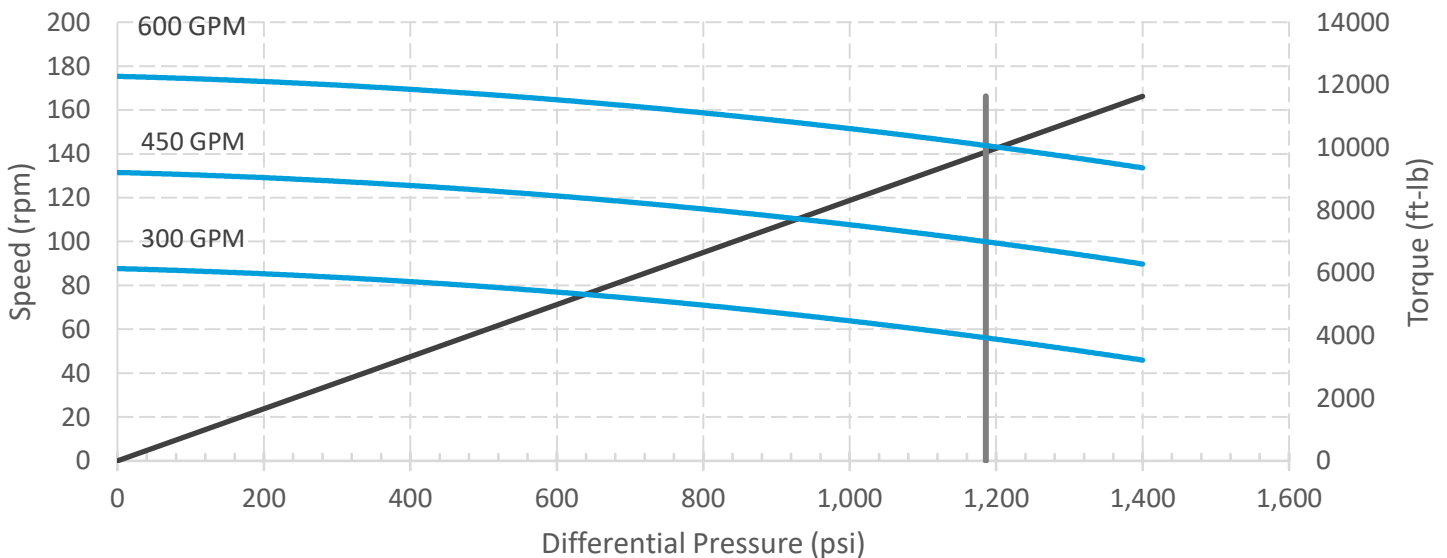
Downhole Performance Specifications

Torque Slope	8.31 ft-lbs/psi	Max Diff. Pressure	1,190 psi	1,190 psi
Flow Range	300 - 600 gpm	Max Torque	9,860 ft-lbs	7,950 ft-lbs
Speed Range	88 - 175 rpm	Speed (Max Diff. & Flow)	144 rpm	124 rpm
Rotation	0.292 rev/gal	Max HP	270 hp	185 hp
Off-Bottom Pressure	110 psi	Stall Diff. Pressure	1,870 psi	
		Stall Torque	15,540 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	3.747	-0.007	155 - 265 °F	3.769	-0.029	200 - 290 °F
0.5 Oversize						
1.0 Oversize	3.768	-0.028	225 - 320 °F	3.790	-0.050	260 - 345 °F
1.5 Oversize						
2.0 Oversize	3.790	-0.050	300 - 320 °F	3.811	-0.071	315 - 375 °F



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	4927.6 mm
Contour Length	4775.2 mm
Head Length	152.4 mm
Head Diameter	101.60 mm
Major Diameter	109.64 mm
Eccentric	7.32 mm
Material	17-4 PH
Weight	274 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5080.0 mm
Contour Length	4673.6 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	5.0
Material	4140 HT
Weight	342 kgs
Thread Form	Contact Factory

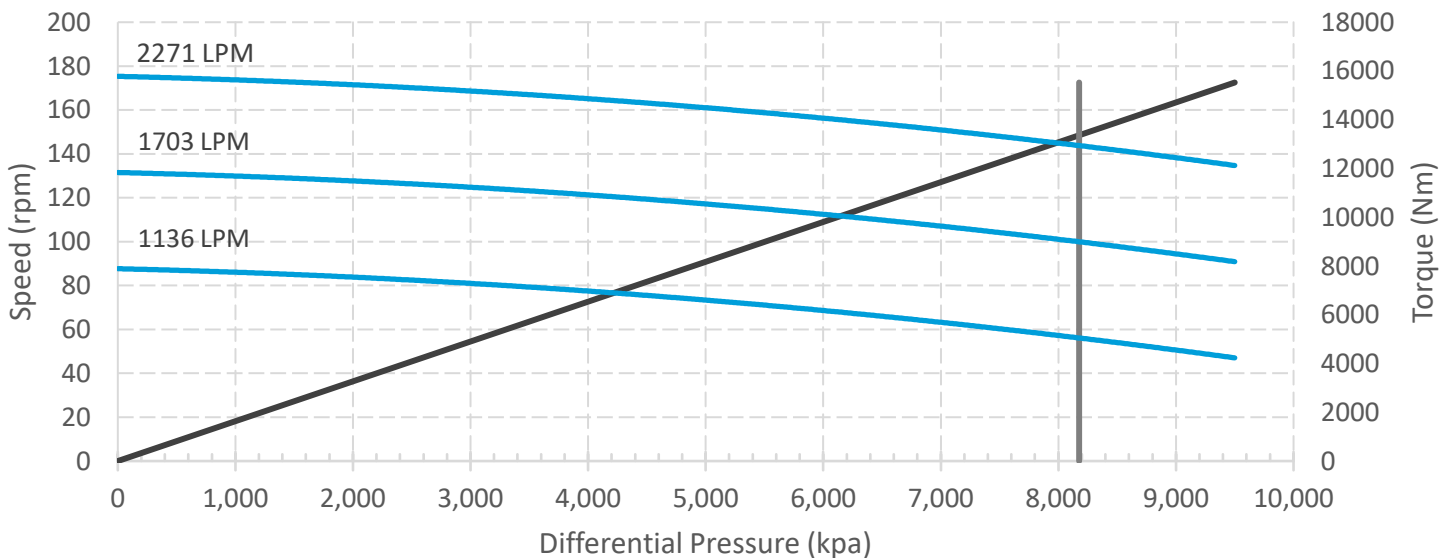
Downhole Performance Specifications

Torque Slope	1.63 Nm/kPa	Max Diff. Pressure	8205 kPa	8205 kPa
Flow Range	1136 - 2271 lpm	Max Torque	13368 Nm	10779 Nm
Speed Range	88 - 175 rpm	Speed (Max Diff. & Flow)	144 rpm	124 rpm
Rotation	0.0771 rev/liter	Max HP	201 kW	138 kW
Off-Bottom Pressure	758 kPa	Stall Diff. Pressure	12893 kPa	
		Stall Torque	21069 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	95.17	-0.18	68 - 129 °C	95.73	-0.74	93 - 143 °C
0.5 Oversize						
1.0 Oversize	95.71	-0.71	107 - 160 °C	96.27	-1.27	127 - 174 °C
1.5 Oversize						
2.0 Oversize	96.27	-1.27	149 - 160 °C	96.80	-1.80	157 - 191 °C



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