



VIKING

Power Technologies

5203 Aeropark Dr., Houston, TX 77032 USA
 Tel: (832)-957-3200 Email: sales@vikingpt.com

Conventional Power Section

675 78 50

6.75" OD 7/8 Lobes 5.0 Stages

Rotor Specification

Overall Length	188.00 in.
Contour Length	181.00 in.
Head Length	7.00 in.
Head Diameter	4.00 in.
Major Diameter	4.520 in.
Eccentric	0.256 in.
Material	17-4 PH
Weight	694 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	194.50 in.
Contour Length	178.50 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	719 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

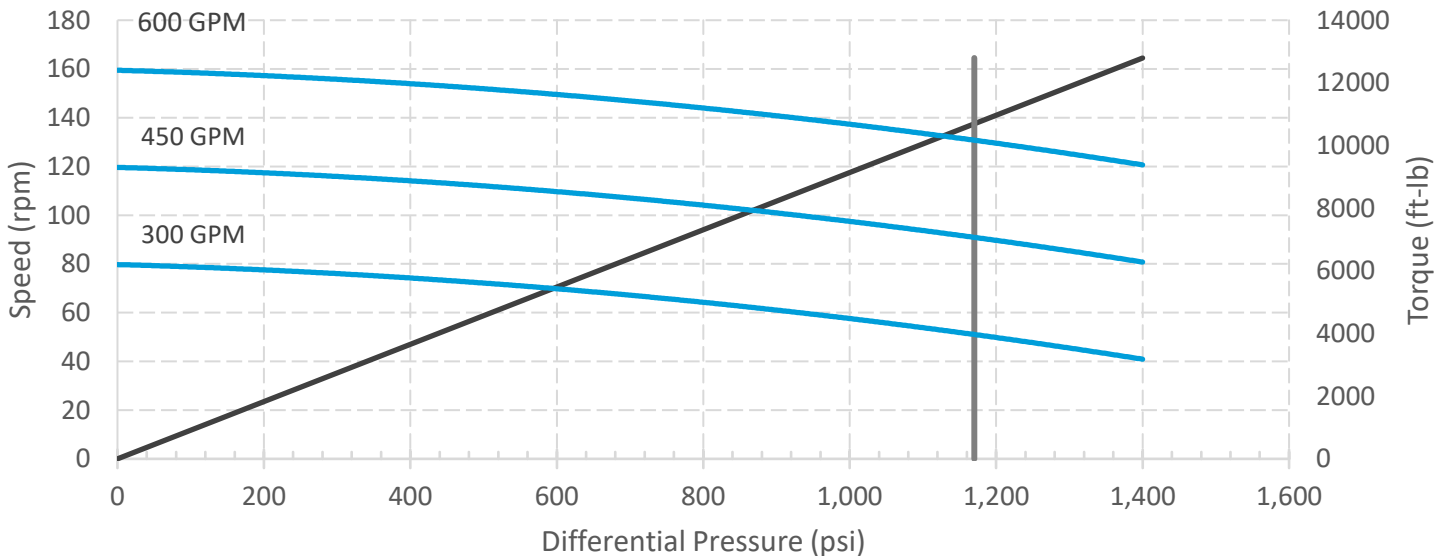
Torque Slope	9.14 ft-lbs/psi
Flow Range	300 - 600 gpm
Speed Range	80 - 159 rpm
Rotation	0.266 rev/gal
Off-Bottom Pressure	140 psi

Dyno Performance

Max Diff. Pressure	1,170 psi
Max Torque	10,690 ft-lbs
Speed (Max Diff. & Flow)	131 rpm
Max HP	265 hp
Stall Diff. Pressure	1,840 psi
Stall Torque	16,820 ft-lbs

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	4.002	0.006	110 - 235 °F	4.019	-0.011	165 - 265 °F
0.5 Oversize						
1.0 Oversize	4.019	-0.011	185 - 310 °F	4.036	-0.028	225 - 325 °F
1.5 Oversize						
2.0 Oversize	4.030	-0.022	235 - 320 °F	4.045	-0.037	260 - 360 °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	4775.2 mm
Contour Length	4597.4 mm
Head Length	177.8 mm
Head Diameter	101.60 mm
Major Diameter	114.81 mm
Eccentric	6.50 mm
Material	17-4 PH
Weight	315 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	4940.3 mm
Contour Length	4533.9 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	326 kgs
Thread Form	Contact Factory

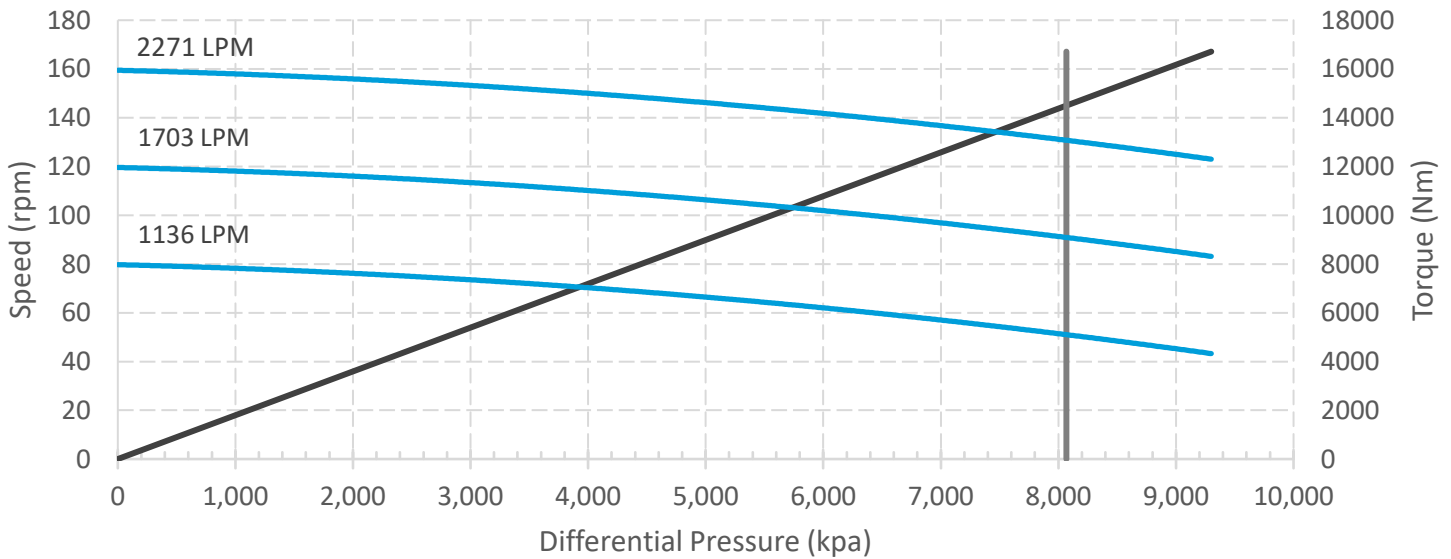
Downhole Performance Specifications

Torque Slope	1.80 Nm/kPa	Max Diff. Pressure	8067 kPa	8067 kPa
Flow Range	1136 - 2271 lpm	Max Torque	14494 Nm	11687 Nm
Speed Range	80 - 159 rpm	Speed (Max Diff. & Flow)	131 rpm	112 rpm
Rotation	0.0703 rev/liter	Max HP	198 kW	138 kW
Off-Bottom Pressure	965 kPa	Stall Diff. Pressure	12686 kPa	
		Stall Torque	22805 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	101.65	0.15	43 - 113 °C	102.08	-0.28	74 - 129 °C
0.5 Oversize						
1.0 Oversize	102.08	-0.28	85 - 154 °C	102.51	-0.71	107 - 163 °C
1.5 Oversize						
2.0 Oversize	102.36	-0.56	113 - 160 °C	102.74	-0.94	127 - 182 °C



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