



VIKING

Power Technologies

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Conventional Power Section

700 67 65

7.00" OD 6/7 Lobes 6.5 Stages

Rotor Specification

Overall Length	267.00 in.
Contour Length	259.00 in.
Head Length	8.00 in.
Head Diameter	4.75 in.
Major Diameter	4.747 in.
Eccentric	0.302 in.
Material	17-4 PH
Weight	1,052 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	275.00 in.
Contour Length	259.00 in.
Tube O.D.	7.00 in.
Tube I.D.	5.75 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	6.5
Material	4140 HT
Weight	1,065 lbs.
Thread Form	Contact Factory

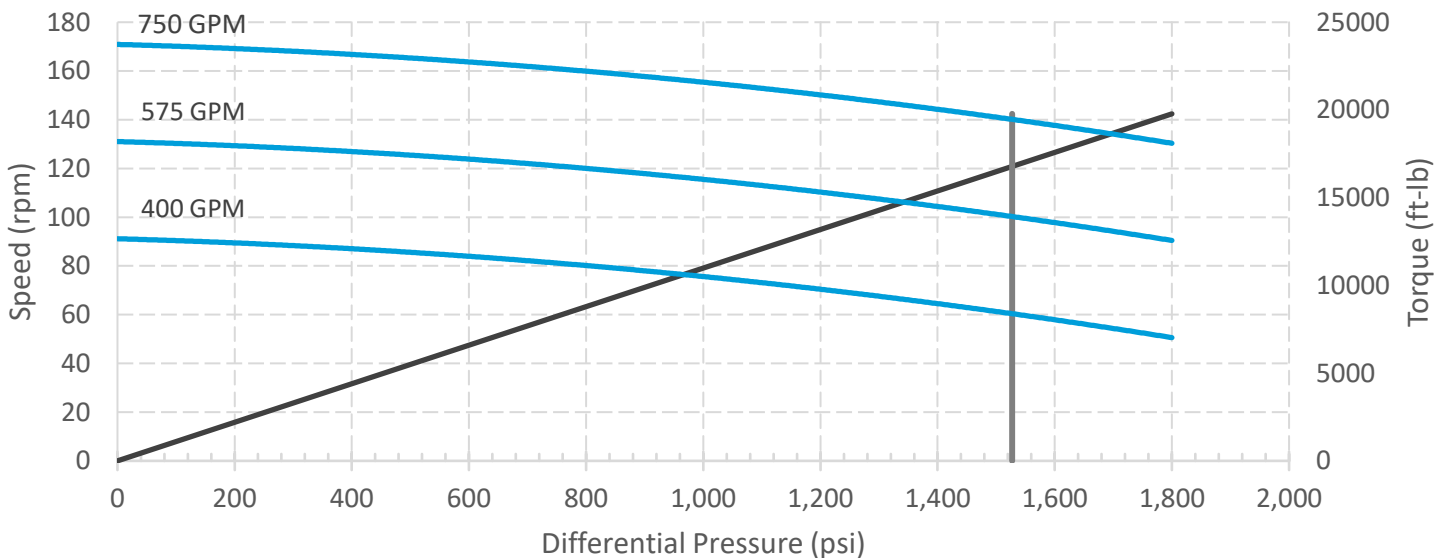
Downhole Performance Specifications

Torque Slope	10.99 ft-lbs/psi	Max Diff. Pressure	1,530 psi	1,530 psi
Flow Range	400 - 750 gpm	Max Torque	16,780 ft-lbs	13,530 ft-lbs
Speed Range	91 - 171 rpm	Speed (Max Diff. & Flow)	140 rpm	120 rpm
Rotation	0.228 rev/gal	Max HP	450 hp	310 hp
Off-Bottom Pressure	140 psi	Stall Diff. Pressure	2,400 psi	
		Stall Torque	26,370 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000274 in/°F			Temperature Slope 0.000335 in/°F		
1.0 Undersize						
Standard	4.144	-0.001	135 - 240 °F	4.165	-0.022	185 - 270 °F
0.5 Oversize	4.151	-0.008	160 - 265 °F	4.171	-0.028	200 - 290 °F
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	6781.8 mm
Contour Length	6578.6 mm
Head Length	203.2 mm
Head Diameter	120.65 mm
Major Diameter	120.57 mm
Eccentric	7.67 mm
Material	17-4 PH
Weight	477 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6985.0 mm
Contour Length	6578.6 mm
Tube O.D.	177.8 mm
Tube I.D.	146.1 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	6.5
Material	4140 HT
Weight	483 kgs
Thread Form	Contact Factory

Downhole Performance Specifications

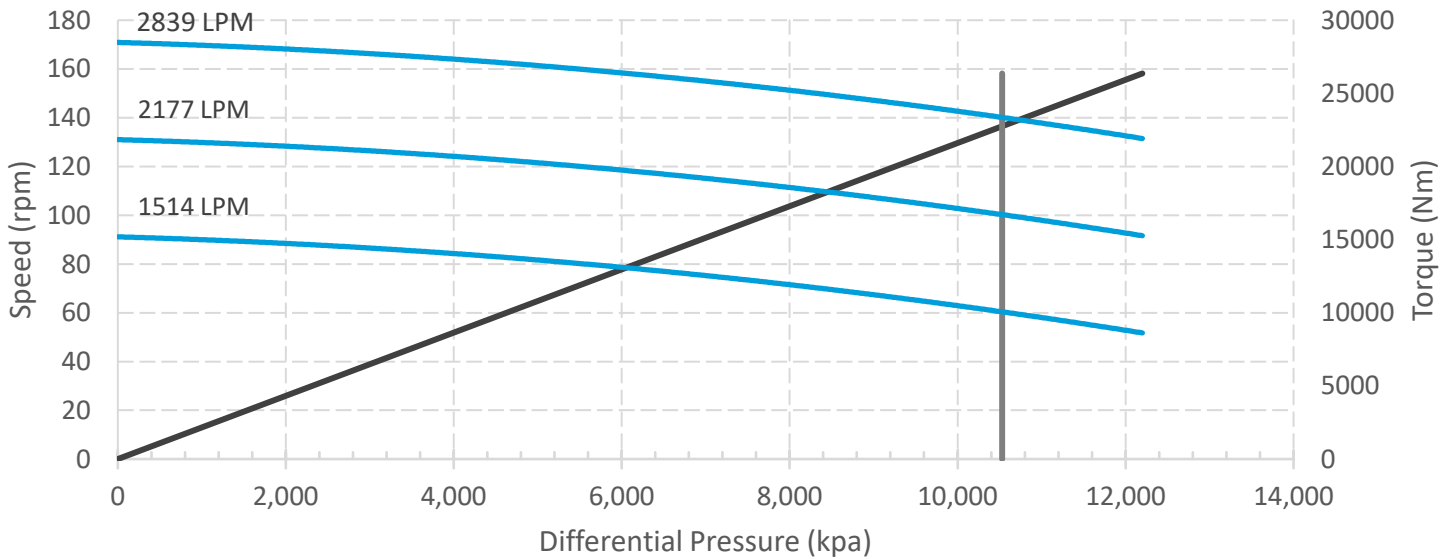
Torque Slope	2.16 Nm/kPa
Flow Range	1514 - 2839 lpm
Speed Range	91 - 171 rpm
Rotation	0.0602 rev/liter
Off-Bottom Pressure	965 kPa

Dyno Performance

Max Diff. Pressure	10549 kPa
Max Torque	22751 Nm
Speed (Max Diff. & Flow)	140 rpm
Max HP	336 kW
Stall Diff. Pressure	16547 kPa
Stall Torque	35753 Nm

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	105.26	-0.03	57 - 116 °C	105.79	-0.56	85 - 132 °C
0.5 Oversize	105.44	-0.20	71 - 129 °C	105.94	-0.71	93 - 143 °C
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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