



VIKING

Power Technologies

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Conventional Power Section

675 78 64

6.75" OD 7/8 Lobes 6.4 Stages

Rotor Specification

Overall Length	238.50 in.
Contour Length	231.50 in.
Head Length	7.00 in.
Head Diameter	4.50 in.
Major Diameter	4.520 in.
Eccentric	0.256 in.
Material	17-4 PH
Weight	893 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	245.00 in.
Contour Length	229.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	6.4
Material	4140 HT
Weight	906 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

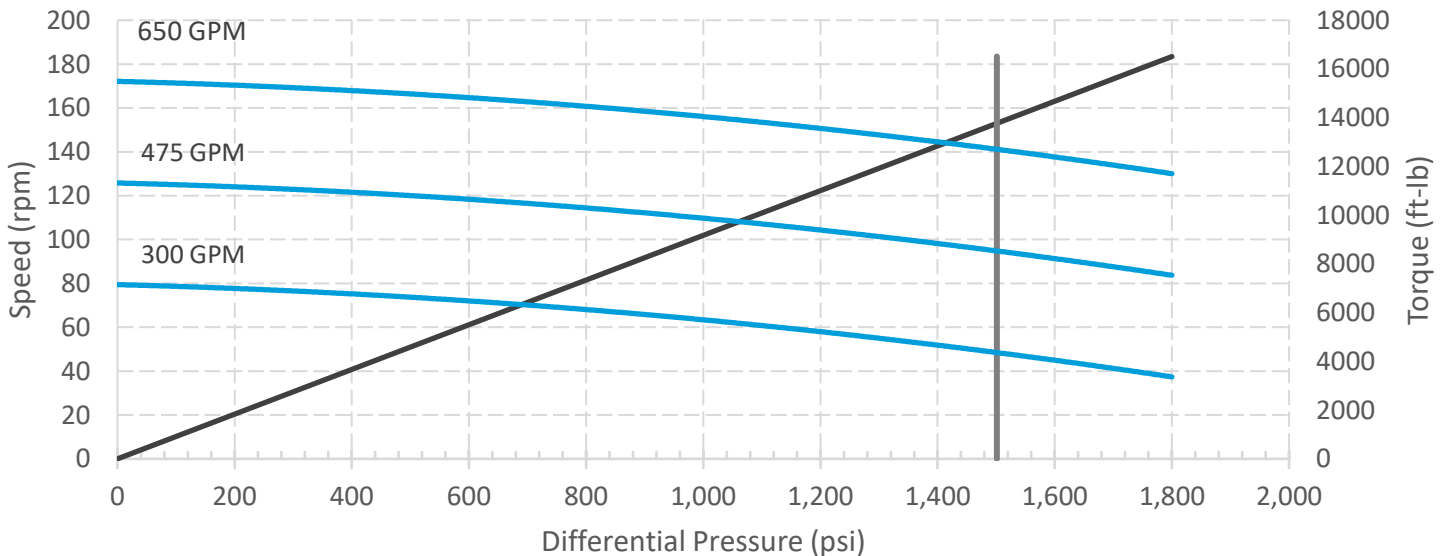
Torque Slope	9.17 ft-lbs/psi
Flow Range	300 - 650 gpm
Speed Range	79 - 172 rpm
Rotation	0.265 rev/gal
Off-Bottom Pressure	125 psi

Dyno Performance

Max Diff. Pressure	1,500 psi
Max Torque	13,770 ft-lbs
Speed (Max Diff. & Flow)	141 rpm
Max HP	370 hp
Stall Diff. Pressure	2,350 psi
Stall Torque	21,550 ft-lbs

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	3.986	0.022	75 - 165 °F	4.004	0.004	110 - 210 °F
0.5 Oversize	4.004	0.004	120 - 240 °F	4.019	-0.011	165 - 265 °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	6057.9 mm
Contour Length	5880.1 mm
Head Length	177.8 mm
Head Diameter	114.30 mm
Major Diameter	114.81 mm
Eccentric	6.50 mm
Material	17-4 PH
Weight	405 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6223.0 mm
Contour Length	5816.6 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	6.4
Material	4140 HT
Weight	411 kgs
Thread Form	Contact Factory

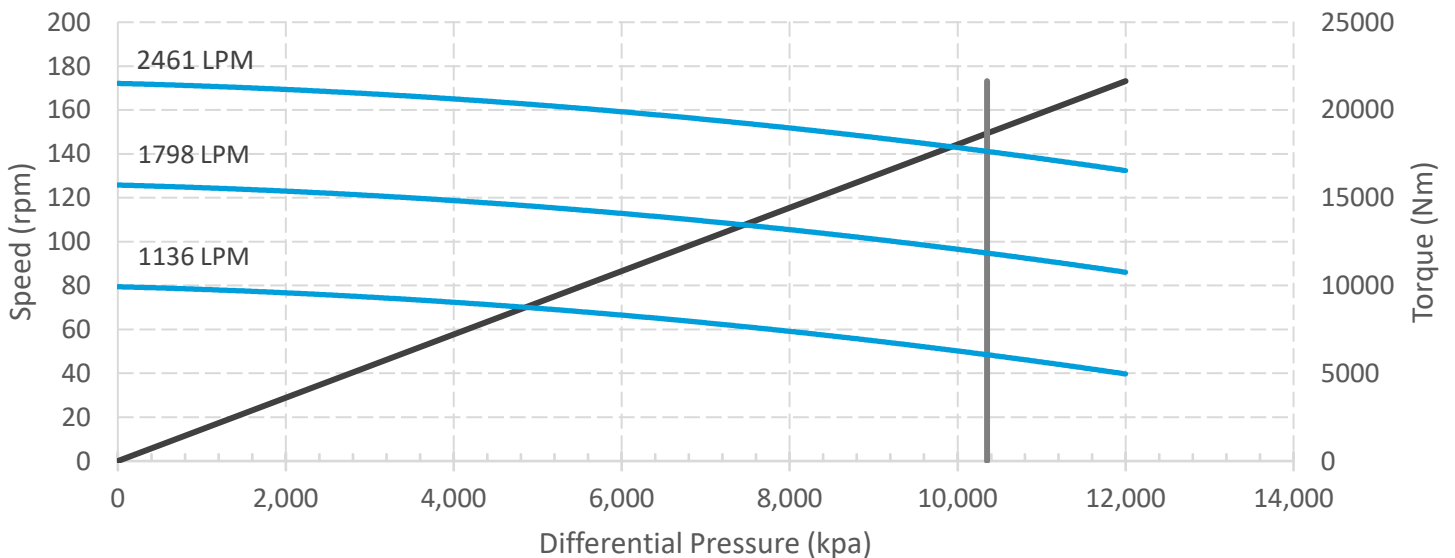
Downhole Performance Specifications

Torque Slope	1.80 Nm/kPa	Max Diff. Pressure	10342 kPa	10342 kPa
Flow Range	1136 - 2461 lpm	Max Torque	18670 Nm	15063 Nm
Speed Range	79 - 172 rpm	Speed (Max Diff. & Flow)	141 rpm	121 rpm
Rotation	0.0700 rev/liter	Max HP	276 kW	190 kW
Off-Bottom Pressure	862 kPa	Stall Diff. Pressure	16203 kPa	
		Stall Torque	29218 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	101.24	0.56	24 - 74 °C	101.70	0.10	43 - 99 °C
0.5 Oversize	101.70	0.10	49 - 116 °C	102.08	-0.28	74 - 129 °C
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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