



VIKING

Power Technologies

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Conventional Power Section

800 78 30

8.00" OD 7/8 Lobes 3.0 Stages

Rotor Specification

Overall Length	153.00 in.
Contour Length	145.00 in.
Head Length	8.00 in.
Head Diameter	4.75 in.
Major Diameter	5.186 in.
Eccentric	0.293 in.
Material	17-4 PH
Weight	742 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	160.00 in.
Contour Length	144.00 in.
Tube O.D.	8.00 in.
Tube I.D.	6.25 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	3.0
Material	4140 HT
Weight	945 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

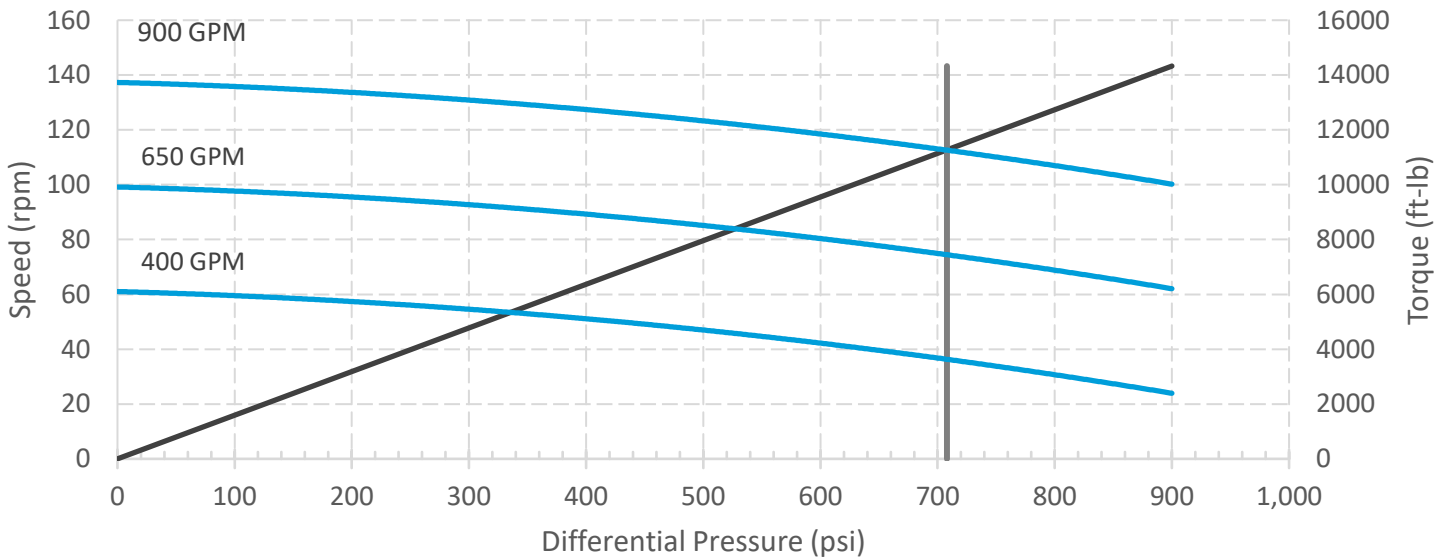
Torque Slope	15.92 ft-lbs/psi
Flow Range	400 - 900 gpm
Speed Range	61 - 137 rpm
Rotation	0.153 rev/gal
Off-Bottom Pressure	100 psi

Dyno Performance

Max Diff. Pressure	710 psi
Max Torque	11,270 ft-lbs
Speed (Max Diff. & Flow)	113 rpm
Max HP	240 hp
Stall Diff. Pressure	1,110 psi
Stall Torque	17,670 ft-lbs

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	4.586	0.014	80 - 205 °F	4.604	-0.004	140 - 240 °F
Standard						
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	3886.2 mm
Contour Length	3683.0 mm
Head Length	203.2 mm
Head Diameter	120.65 mm
Major Diameter	131.72 mm
Eccentric	7.44 mm
Material	17-4 PH
Weight	337 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	4064.0 mm
Contour Length	3657.6 mm
Tube O.D.	203.2 mm
Tube I.D.	158.8 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	3.0
Material	4140 HT
Weight	429 kgs
Thread Form	Contact Factory

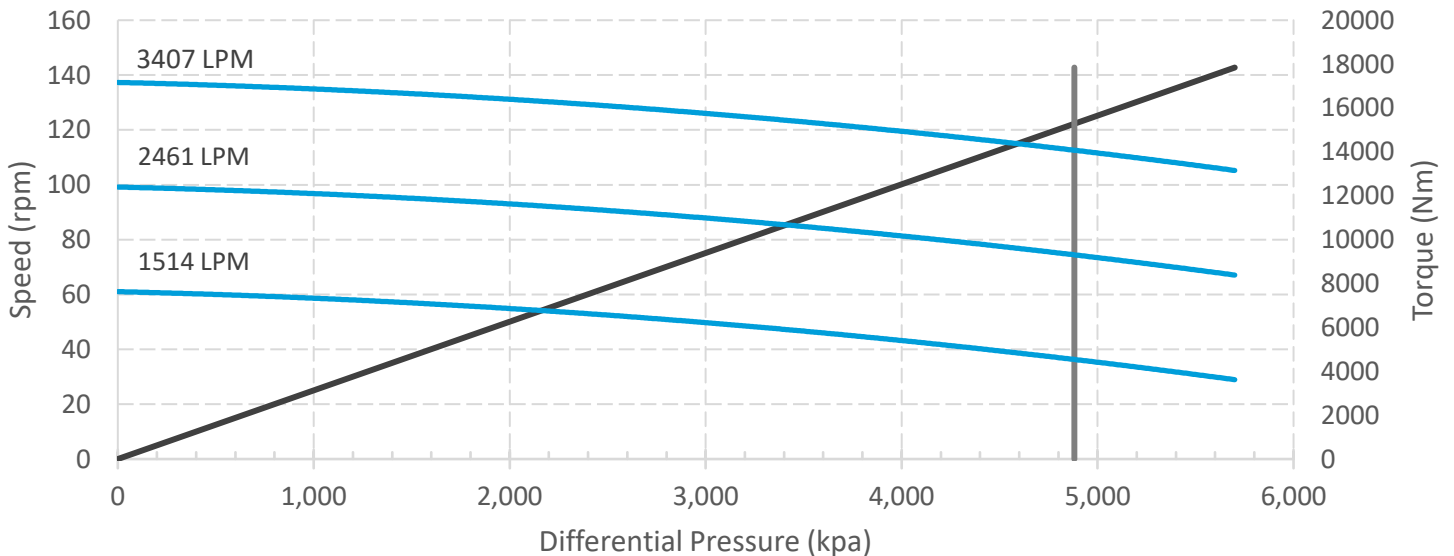
Downhole Performance Specifications

Torque Slope	3.13 Nm/kPa	Max Diff. Pressure	4895 kPa	4895 kPa
Flow Range	1514 - 3407 lpm	Max Torque	15280 Nm	12324 Nm
Speed Range	61 - 137 rpm	Speed (Max Diff. & Flow)	113 rpm	97 rpm
Rotation	0.0404 rev/liter	Max HP	179 kW	127 kW
Off-Bottom Pressure	689 kPa	Stall Diff. Pressure	7653 kPa	
		Stall Torque	23957 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	116.48	0.36	27 - 96 °C	116.94	-0.10	60 - 116 °C
Standard						
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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