



VIKING

Power Technologies

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Conventional Power Section

825 78 70

8.25" OD 7/8 Lobes 7.0 Stages

Rotor Specification

Overall Length	291.00 in.
Contour Length	281.00 in.
Head Length	10.00 in.
Head Diameter	5.50 in.
Major Diameter	5.642 in.
Eccentric	0.307 in.
Material	17-4 PH
Weight	1,710 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	300.00 in.
Contour Length	284.00 in.
Tube O.D.	8.25 in.
Tube I.D.	6.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	7.0
Material	4140 HT
Weight	1,817 lbs.
Thread Form	Contact Factory

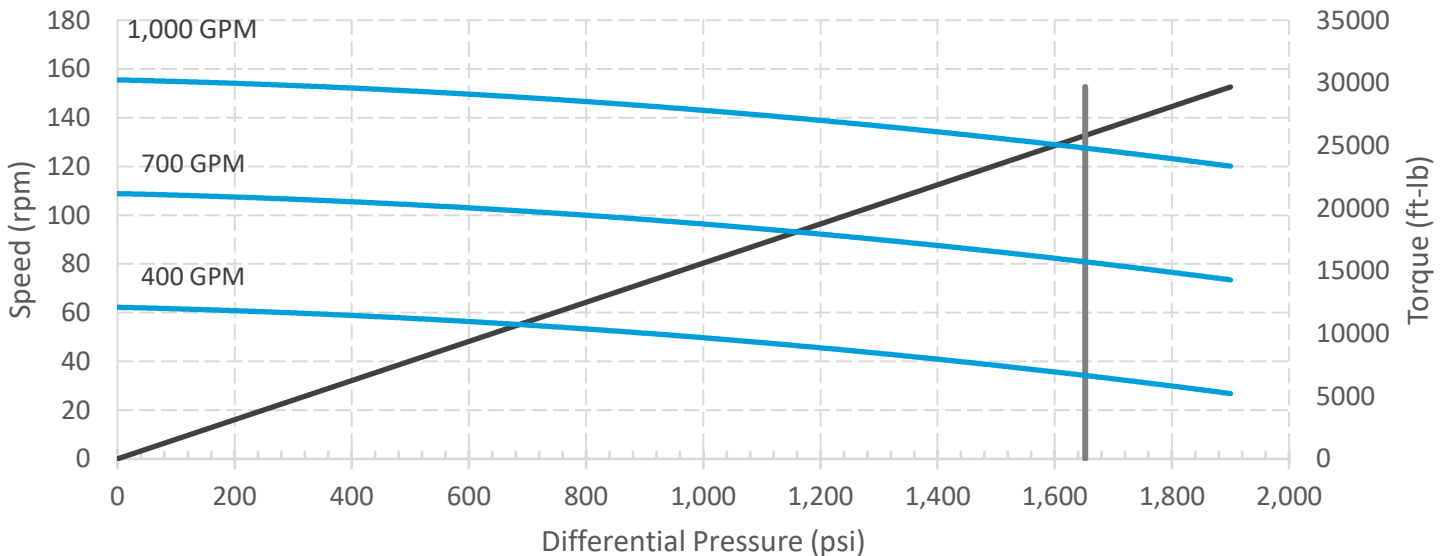
Downhole Performance Specifications

Torque Slope	15.62 ft-lbs/psi	Max Diff. Pressure	1,650 psi	1,650 psi
Flow Range	400 - 1,000 gpm	Max Torque	25,800 ft-lbs	20,810 ft-lbs
Speed Range	62 - 156 rpm	Speed (Max Diff. & Flow)	128 rpm	110 rpm
Rotation	0.156 rev/gal	Max HP	625 hp	435 hp
Off-Bottom Pressure	130 psi	Stall Diff. Pressure	2,590 psi	
		Stall Torque	40,450 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	5.028	0.000	140 - 265 °F	5.047	-0.019	185 - 290 °F
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	7391.4 mm
Contour Length	7137.4 mm
Head Length	254.0 mm
Head Diameter	139.70 mm
Major Diameter	143.31 mm
Eccentric	7.80 mm
Material	17-4 PH
Weight	775 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	7620.0 mm
Contour Length	7213.6 mm
Tube O.D.	209.6 mm
Tube I.D.	165.1 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	7.0
Material	4140 HT
Weight	824 kgs
Thread Form	Contact Factory

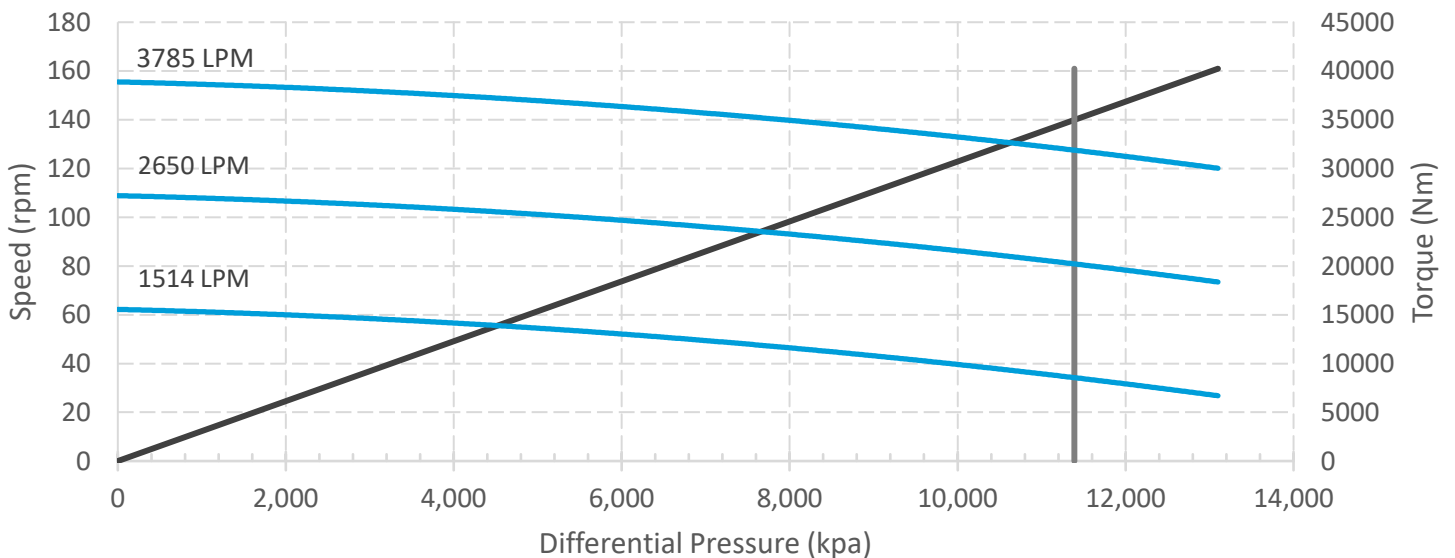
Downhole Performance Specifications

Torque Slope	3.07 Nm/kPa	Max Diff. Pressure	11376 kPa	11376 kPa
Flow Range	1514 - 3785 lpm	Max Torque	34980 Nm	28215 Nm
Speed Range	62 - 156 rpm	Speed (Max Diff. & Flow)	128 rpm	110 rpm
Rotation	0.0412 rev/liter	Max HP	466 kW	324 kW
Off-Bottom Pressure	896 kPa	Stall Diff. Pressure	17857 kPa	
		Stall Torque	54843 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	127.71	0.00	60 - 129 °C	128.19	-0.48	85 - 143 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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