



VIKING

Power Technologies

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Conventional Power Section

675 78 30 S

6.75" OD 7/8 Lobes 3.0 Stages

Rotor Specification

Overall Length	197.50 in.
Contour Length	191.00 in.
Head Length	6.50 in.
Head Diameter	4.00 in.
Major Diameter	4.570 in.
Eccentric	0.255 in.
Material	17-4 PH
Weight	744 lbs.
Thread Form	Contact Factory

Stator Specification

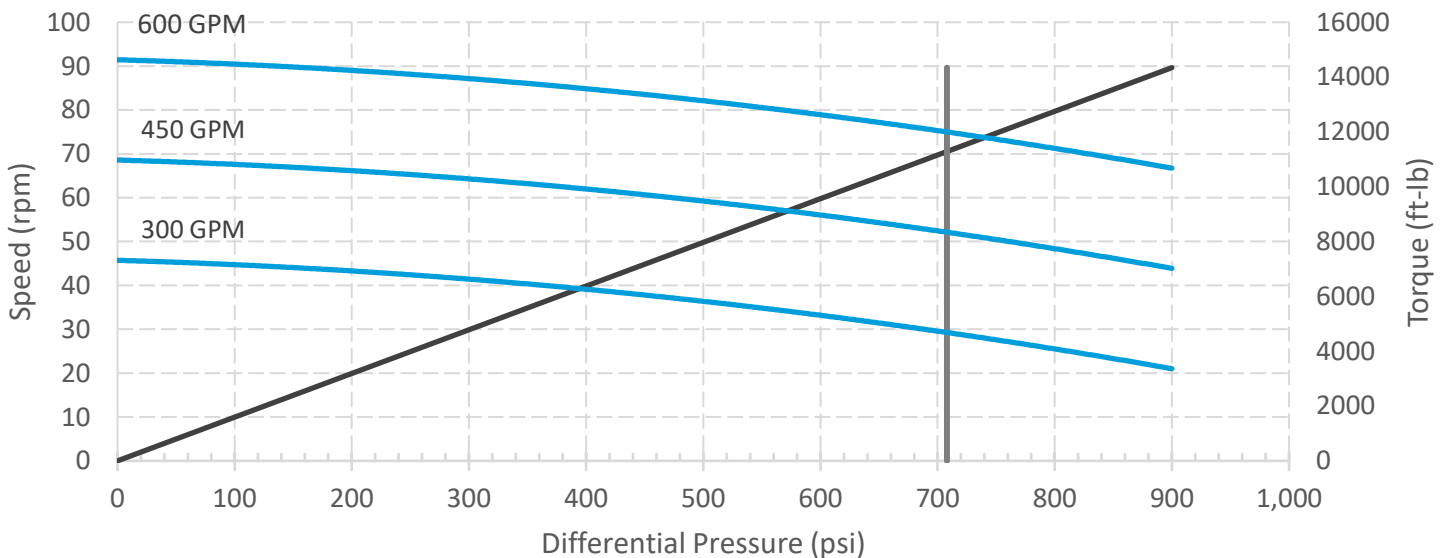
Overall Length	204.00 in.
Contour Length	188.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	3.0
Material	4140 HT
Weight	752 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

Torque Slope	15.94 ft-lbs/psi	Max Diff. Pressure	710 psi	Dyno Performance	710 psi
Flow Range	300 - 600 gpm	Max Torque	11,280 ft-lbs		9,100 ft-lbs
Speed Range	46 - 91 rpm	Speed (Max Diff. & Flow)	75 rpm		64 rpm
Rotation	0.152 rev/gal	Max HP	160 hp		110 hp
Off-Bottom Pressure	75 psi	Stall Diff. Pressure	1,110 psi		
		Stall Torque	17,690 ft-lbs		

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	4.053	0.007	105 - 220 °F	4.070	-0.010	155 - 250 °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	5016.5 mm
Contour Length	4851.4 mm
Head Length	165.1 mm
Head Diameter	101.60 mm
Major Diameter	116.08 mm
Eccentric	6.48 mm
Material	17-4 PH
Weight	338 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5181.6 mm
Contour Length	4775.2 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	3.0
Material	4140 HT
Weight	341 kgs
Thread Form	Contact Factory

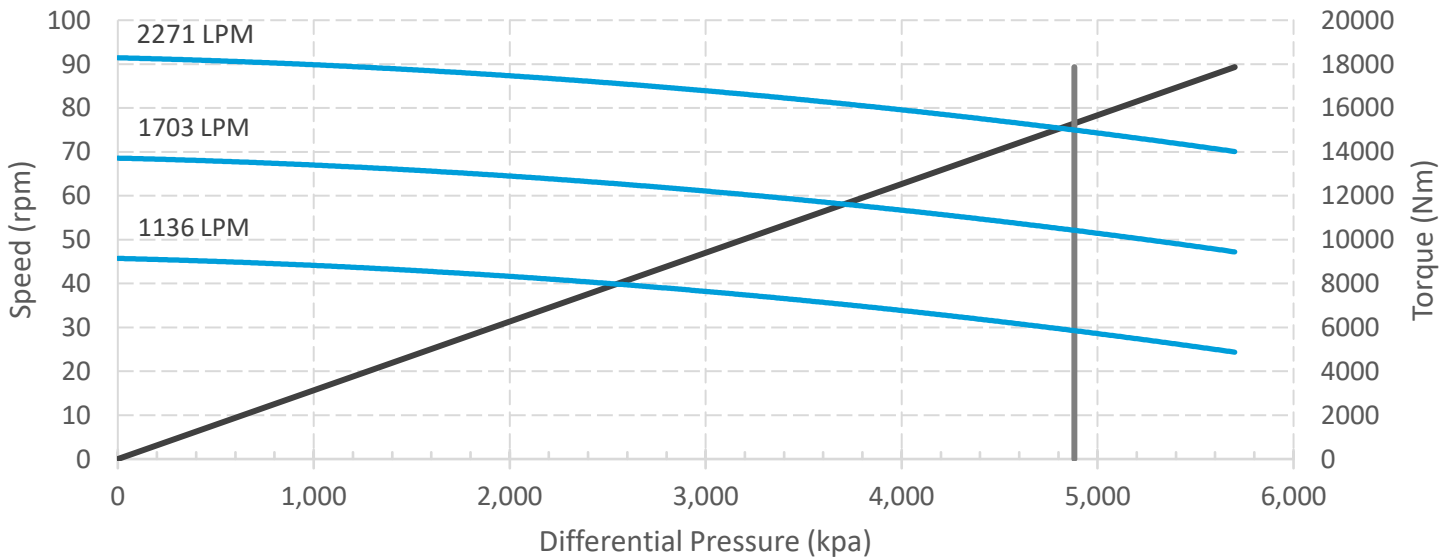
Downhole Performance Specifications

Torque Slope	3.13 Nm/kPa	Max Diff. Pressure	4895 kPa	4895 kPa
Flow Range	1136 - 2271 lpm	Max Torque	15294 Nm	12338 Nm
Speed Range	46 - 91 rpm	Speed (Max Diff. & Flow)	75 rpm	64 rpm
Rotation	0.0402 rev/liter	Max HP	119 kW	82 kW
Off-Bottom Pressure	517 kPa	Stall Diff. Pressure	7653 kPa	
		Stall Torque	23984 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	102.95	0.18	41 - 104 °C	103.38	-0.25	68 - 121 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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