



VIKING

Power Technologies

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Conventional Power Section

800 78 25 S

8.00" OD 7/8 Lobes 2.5 Stages

Rotor Specification

Overall Length	246.00 in.
Contour Length	239.00 in.
Head Length	7.00 in.
Head Diameter	4.63 in.
Major Diameter	5.141 in.
Eccentric	0.300 in.
Material	17-4 PH
Weight	1,153 lbs.
Thread Form	Contact Factory

Stator Specification

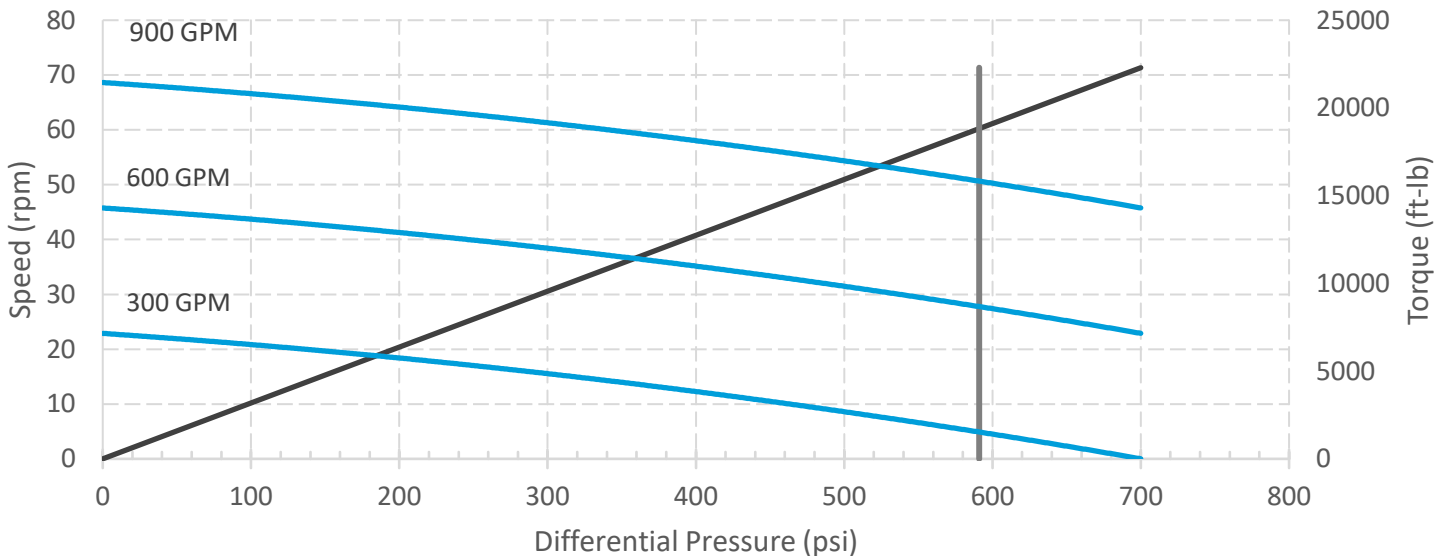
Overall Length	254.00 in.
Contour Length	238.00 in.
Tube O.D.	8.00 in.
Tube I.D.	6.25 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	2.5
Material	4140 HT
Weight	1,509 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

Torque Slope	31.85 ft-lbs/psi	Max Diff. Pressure	590 psi
Flow Range	300 - 900 gpm	Max Torque	18,820 ft-lbs
Speed Range	23 - 69 rpm	Speed (Max Diff. & Flow)	51 rpm
Rotation	0.076 rev/gal	Max HP	180 hp
Off-Bottom Pressure	85 psi	Stall Diff. Pressure	930 psi
		Stall Torque	29,620 ft-lbs

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000259 in/°F			Temperature Slope 0.000316 in/°F		
1.0 Undersize						
Standard	4.528	0.014	85 - 210 °F	4.547	-0.005	140 - 240 °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	6248.4 mm
Contour Length	6070.6 mm
Head Length	177.8 mm
Head Diameter	117.60 mm
Major Diameter	130.58 mm
Eccentric	7.61 mm
Material	17-4 PH
Weight	523 kgs
Thread Form	Contact Factory

Stator Specification

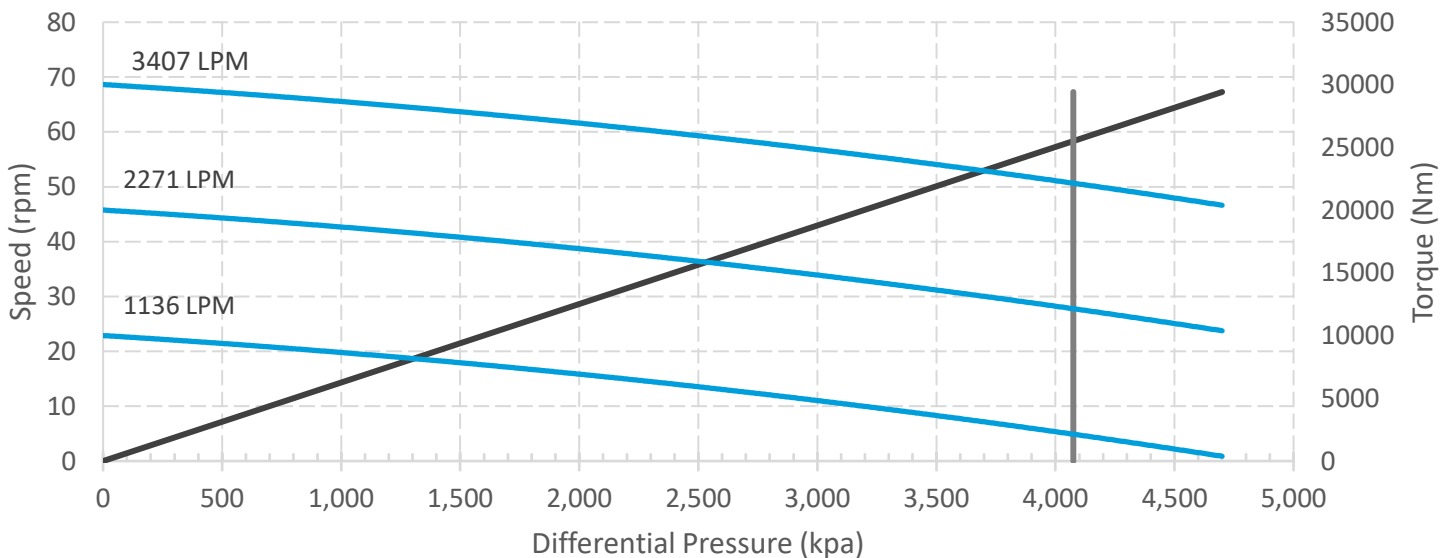
Overall Length	6451.6 mm
Contour Length	6045.2 mm
Tube O.D.	203.2 mm
Tube I.D.	158.8 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	2.5
Material	4140 HT
Weight	684 kgs
Thread Form	Contact Factory

Downhole Performance Specifications

Torque Slope	6.26 Nm/kPa	Max Diff. Pressure	4068 kPa
Flow Range	1136 - 3407 lpm	Max Torque	25516 Nm
Speed Range	23 - 69 rpm	Speed (Max Diff. & Flow)	51 rpm
Rotation	0.0201 rev/liter	Max HP	134 kW
Off-Bottom Pressure	586 kPa	Stall Diff. Pressure	6412 kPa
		Stall Torque	40159 Nm

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	115.01	0.36	29 - 99 °C	115.49	-0.13	60 - 116 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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