



VIKING

Power Technologies

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Conventional Power Section

475 78 29

4.75" OD 7/8 Lobes 2.9 Stages

Rotor Specification

Overall Length	242.00 in.
Contour Length	236.00 in.
Head Length	6.00 in.
Head Diameter	2.85 in.
Major Diameter	2.798 in.
Eccentric	0.163 in.
Material	17-4 PH
Weight	335 lbs.
Thread Form	Contact Factory

Stator Specification

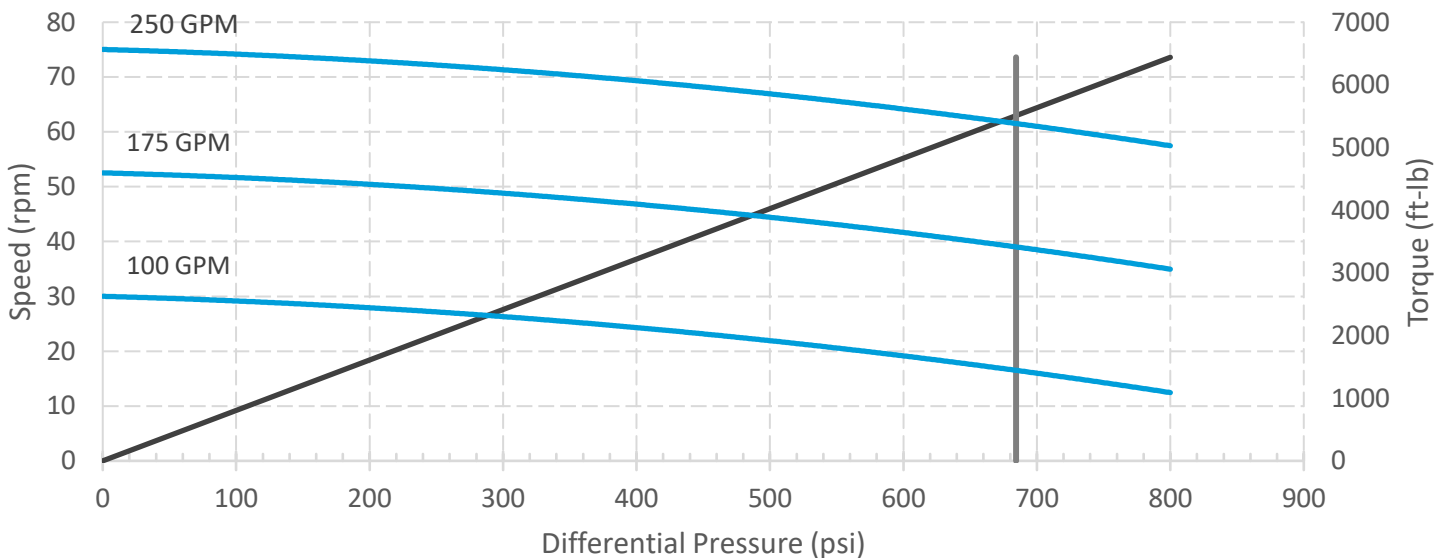
Overall Length	250.00 in.
Contour Length	234.00 in.
Tube O.D.	4.75 in.
Tube I.D.	3.75 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	2.9
Material	4140 HT
Weight	522 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications

Torque Slope	8.05 ft-lbs/psi	Max Diff. Pressure	680 psi	Dyno Performance	680 psi
Flow Range	100 - 250 gpm	Max Torque	5,510 ft-lbs		4,440 ft-lbs
Speed Range	30 - 75 rpm	Speed (Max Diff. & Flow)	62 rpm		53 rpm
Rotation	0.300 rev/gal	Max HP	65 hp		45 hp
Off-Bottom Pressure	40 psi	Stall Diff. Pressure	1,070 psi		
		Stall Torque	8,610 ft-lbs		

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize Standard						
0.5 Oversize	2.490	-0.017	180 - 265 °F	2.509	-0.036	215 - 285 °F
1.0 Oversize						
1.5 Oversize	2.513	-0.040	260 - 320 °F	2.532	-0.059	285 - 350 °F
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	6146.8 mm
Contour Length	5994.4 mm
Head Length	152.4 mm
Head Diameter	72.39 mm
Major Diameter	71.07 mm
Eccentric	4.13 mm
Material	17-4 PH
Weight	152 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6350.0 mm
Contour Length	5943.6 mm
Tube O.D.	120.7 mm
Tube I.D.	95.3 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	2.9
Material	4140 HT
Weight	237 kgs
Thread Form	Contact Factory

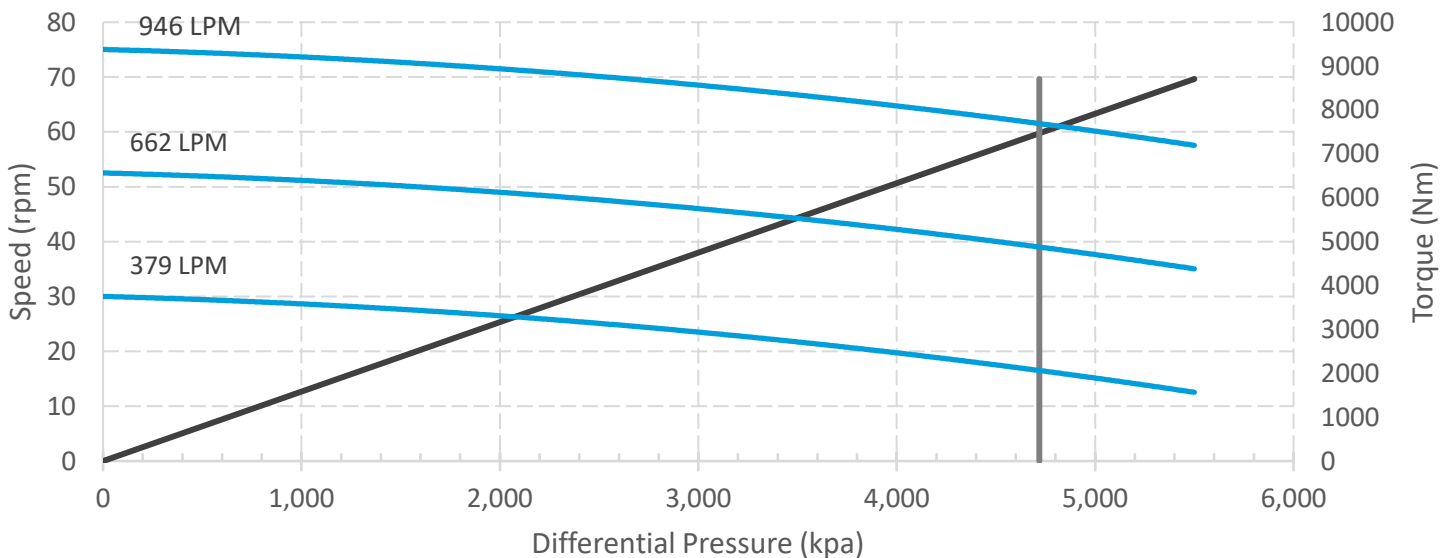
Downhole Performance Specifications

Torque Slope	1.58 Nm/kPa	Max Diff. Pressure	4688 kPa	4688 kPa
Flow Range	379 - 946 lpm	Max Torque	7471 Nm	6020 Nm
Speed Range	30 - 75 rpm	Speed (Max Diff. & Flow)	62 rpm	53 rpm
Rotation	0.0793 rev/liter	Max HP	48 kW	34 kW
Off-Bottom Pressure	276 kPa	Stall Diff. Pressure	7377 kPa	
		Stall Torque	11674 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Temperature Slope 0.012619 mm/°C			Temperature Slope 0.015408 mm/°C		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard						
0.5 Oversize	63.25	-0.43	82 - 129 °C	63.73	-0.91	102 - 141 °C
1.0 Oversize						
1.5 Oversize	63.83	-1.02	127 - 160 °C	64.31	-1.50	141 - 177 °C
2.0 Oversize						



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