VIKING
Power Technologies
5203 Aeropark Dr., Houston, TX 77032 USA
Tel: (832)-957-3200 Email: sales@vikingpt.com

Conventional Power Section

662 78 81

6.62" OD 7/8 Lobes 8.1 Stages

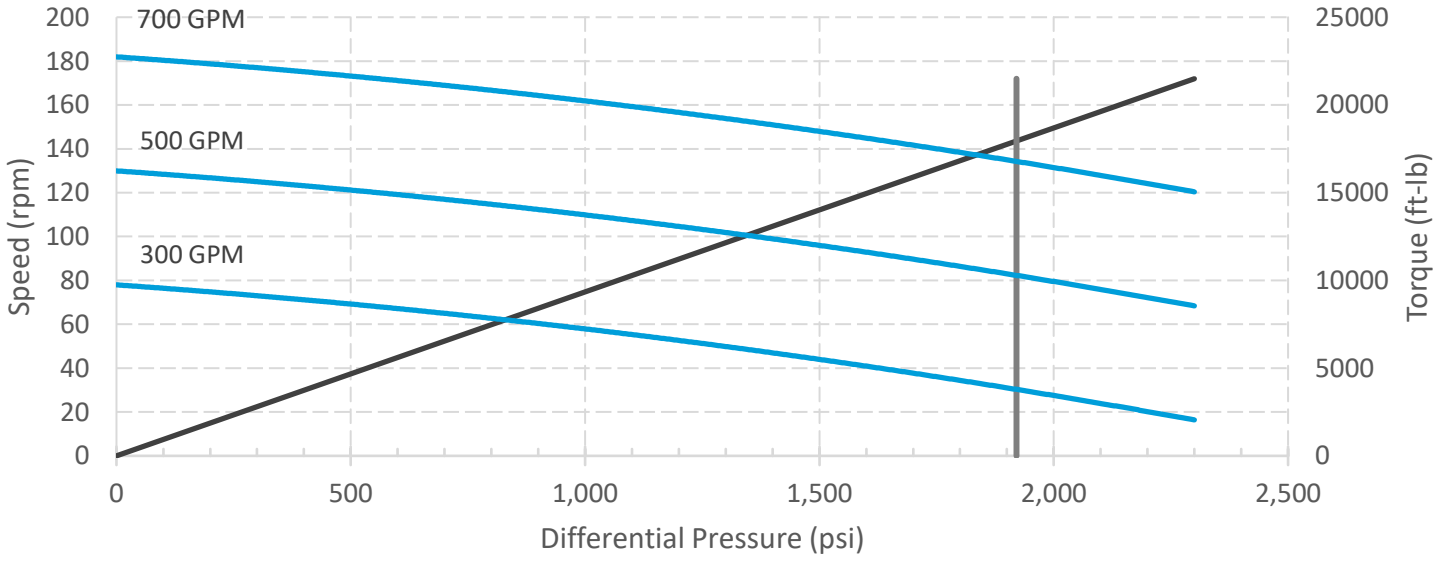
Rotor Specification	
Overall Length	291.00 in.
Contour Length	284.00 in.
Head Length	7.00 in.
Head Diameter	4.50 in.
Major Diameter	4.616 in.
Eccentric	0.269 in.
Material	17-4 PH
Weight	1,091 lbs.
Thread Form	Contact Factory

Stator Specification	
Overall Length	300.00 in.
Contour Length	284.00 in.
Tube O.D.	6.62 in.
Tube I.D.	5.63 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	8.1
Material	4140 HT
Weight	909 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications			
Torque Slope	9.35 ft-lbs/psi	Max Diff. Pressure	1,920 psi
Flow Range	300 - 700 gpm	Max Torque	17,950 ft-lbs
Speed Range	78 - 182 rpm	Speed (Max Diff. & Flow)	134 rpm
Rotation	0.260 rev/gal	Max HP	460 hp
Off-Bottom Pressure	0 psi	Stall Diff. Pressure	3,010 psi
		Stall Torque	28,130 ft-lbs

Elastomer Performance

	007 Temperature Slope 0.000245 in/°F			VPX Temperature Slope 0.000299 in/°F		
	Minor	**Nominal Fit**	**Optimal Temperature**	**Minor**	**Nominal Fit**	**Optimal Temperature**
1.0 Undersize						
Standard	4.077	0.002	125 - 240 °F	4.103	-0.024	200 - 295 °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.

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Revised: 10/2026

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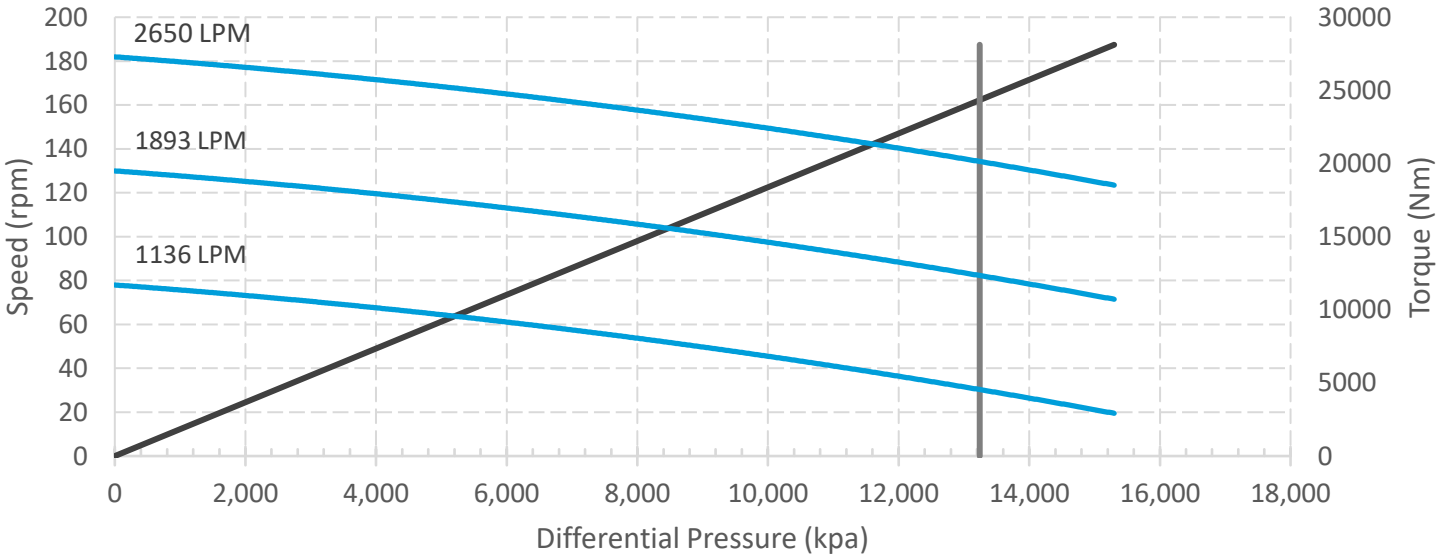
Rotor Specification	
Overall Length	7391.4 mm
Contour Length	7213.6 mm
Head Length	177.8 mm
Head Diameter	114.30 mm
Major Diameter	117.25 mm
Eccentric	6.82 mm
Material	17-4 PH
Weight	495 kgs
Thread Form	Contact Factory

Stator Specification	
Overall Length	7620.0 mm
Contour Length	7213.6 mm
Tube O.D.	168.1 mm
Tube I.D.	143.0 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	8.1
Material	4140 HT
Weight	412 kgs
Thread Form	Contact Factory

Downhole Performance Specifications			
Torque Slope	1.84 Nm/kPa	Max Diff. Pressure	13238 kPa
Flow Range	1136 - 2650 lpm	Max Torque	24337 Nm
Speed Range	78 - 182 rpm	Speed (Max Diff. & Flow)	134 rpm
Rotation	0.0687 rev/liter	Max HP	343 kW
Off-Bottom Pressure	0 kPa	Stall Diff. Pressure	20753 kPa
		Stall Torque	38139 Nm

Elastomer Performance

	007 Temperature Slope 0.011201 mm/°C			VPX Temperature Slope 0.013670 mm/°C		
	Minor	**Nominal Fit**	**Optimal Temperature**	**Minor**	**Nominal Fit**	**Optimal Temperature**
1.0 Undersize						
Standard	103.56	0.05	52 - 116 °C	104.22	-0.61	93 - 146 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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