



VIKING

Power Technologies

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DuraTorque Power Section

662 78 79 DT

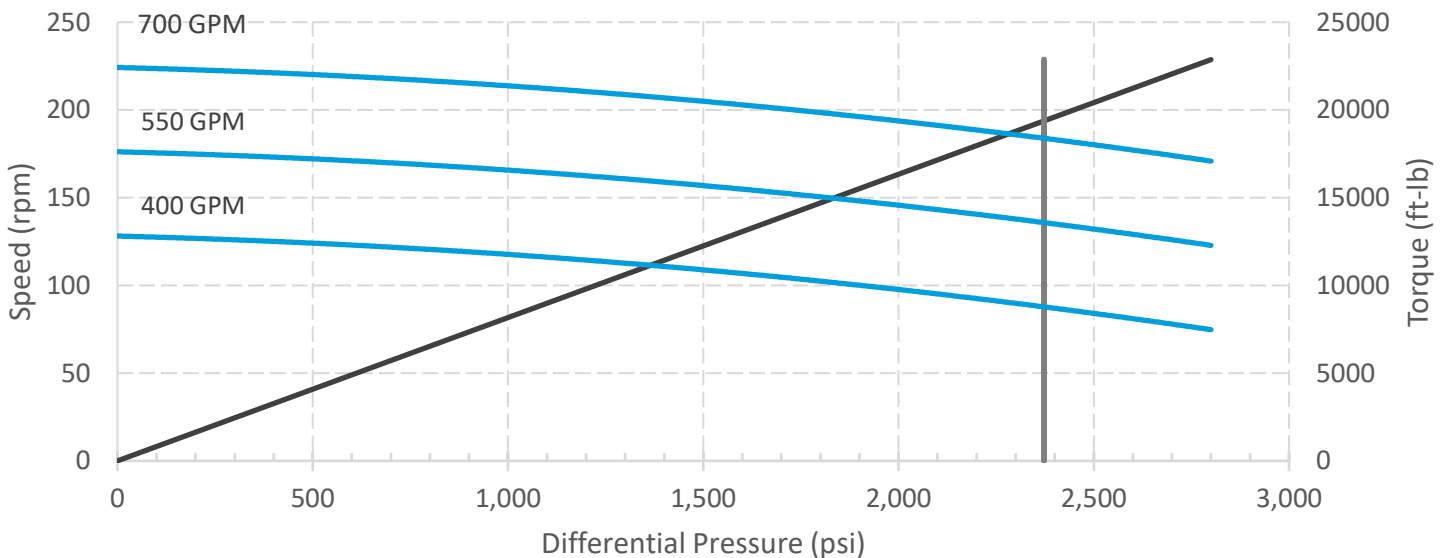
6.62" OD 7/8 Lobes 7.9 Stages

Rotor Specification	
Overall Length	268.00 in.
Contour Length	260.00 in.
Head Length	8.00 in.
Head Diameter	4.50 in.
Major Diameter	4.328 in.
Eccentric	0.246 in.
Material	17-4 PH
Weight	900 lbs.
Thread Form	Contact Factory

Stator Specification	
Overall Length	275.00 in.
Contour Length	259.00 in.
Tube O.D.	6.62 in.
Tube I.D.	5.60 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	7.9
Material	4140 HT
Weight	872 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications				Dyno Performance	
Torque Slope	8.17 ft-lbs/psi	Max Diff. Pressure	2,370 psi		2,370 psi
Flow Range	400 - 700 gpm	Max Torque	19,380 ft-lbs		15,630 ft-lbs
Speed Range	128 - 224 rpm	Speed (Max Diff. & Flow)	184 rpm		158 rpm
Rotation	0.320 rev/gal	Max HP	680 hp		470 hp
Off-Bottom Pressure	140 psi	Stall Diff. Pressure	3,720 psi		
		Stall Torque	30,380 ft-lbs		

Elastomer Performance						
	007			VPX		
	Temperature Slope 0.000156 in/°F			Temperature Slope 0.000191 in/°F		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	3.836	0.000	150 - 280 °F	3.847	-0.011	190 - 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.



Rotor Specification

Overall Length	6807.2 mm
Contour Length	6604.0 mm
Head Length	203.2 mm
Head Diameter	114.30 mm
Major Diameter	109.94 mm
Eccentric	6.25 mm
Material	17-4 PH
Weight	408 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6985.0 mm
Contour Length	6578.6 mm
Tube O.D.	168.1 mm
Tube I.D.	142.2 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	7.9
Material	4140 HT
Weight	395 kgs
Thread Form	Contact Factory

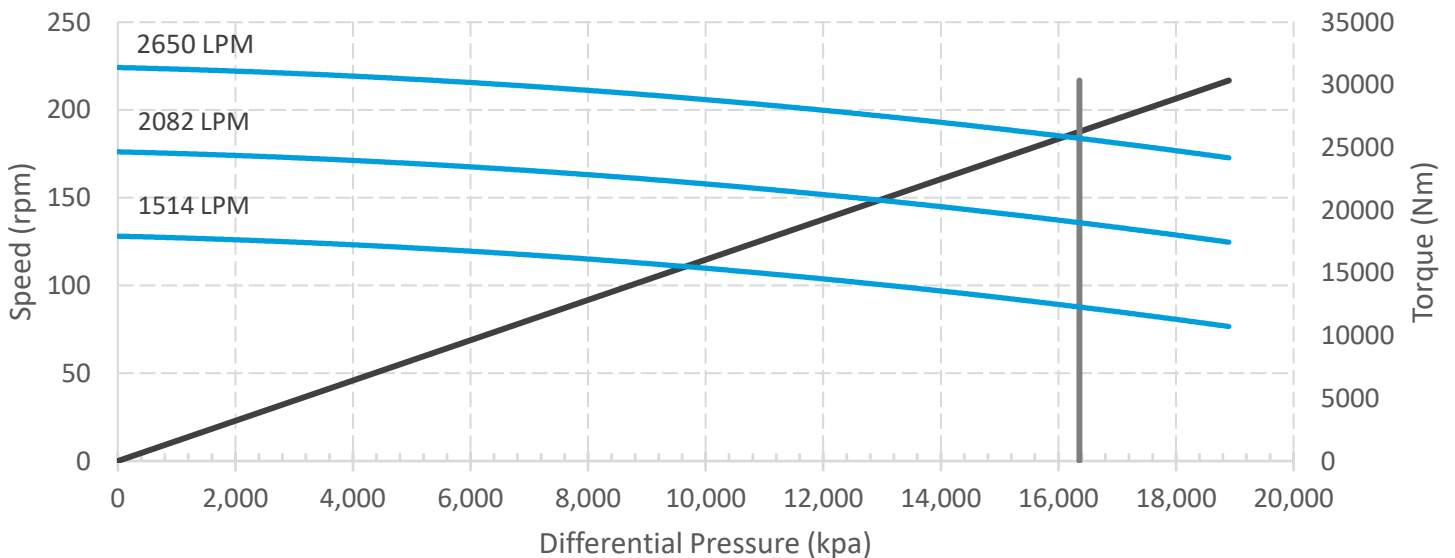
Downhole Performance Specifications

Torque Slope	1.61 Nm/kPa	Max Diff. Pressure	16341 kPa	16341 kPa
Flow Range	1514 - 2650 lpm	Max Torque	26276 Nm	21191 Nm
Speed Range	128 - 224 rpm	Speed (Max Diff. & Flow)	184 rpm	158 rpm
Rotation	0.0845 rev/liter	Max HP	507 kW	350 kW
Off-Bottom Pressure	965 kPa	Stall Diff. Pressure	25649 kPa	
		Stall Torque	41190 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.007132 mm/°C			Temperature Slope 0.008733 mm/°C		
1.0 Undersize						
Standard	97.43	0.00	66 - 138 °C	97.71	-0.28	88 - 146 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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