



VIKING

Power Technologies

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DuraTorque Power Section

725 78 85 DT

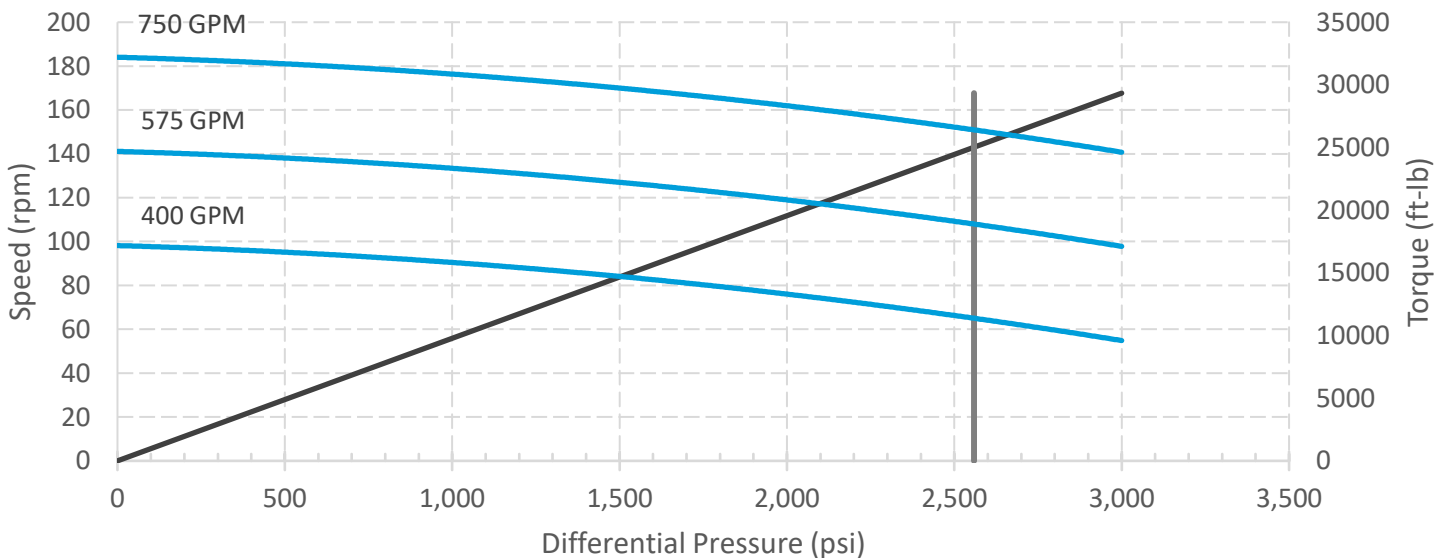
7.25" OD 7/8 Lobes 8.5 Stages

Rotor Specification	
Overall Length	294.00 in.
Contour Length	288.00 in.
Head Length	6.00 in.
Head Diameter	5.00 in.
Major Diameter	5.024 in.
Eccentric	0.268 in.
Material	17-4 PH
Weight	1,360 lbs.
Thread Form	Contact Factory

Stator Specification	
Overall Length	300.00 in.
Contour Length	284.00 in.
Tube O.D.	7.25 in.
Tube I.D.	6.28 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	8.5
Material	4140 HT
Weight	1,007 lbs.
Thread Form	Contact Factory

Downhole Performance Specifications				Dyno Performance	
Torque Slope	9.78 ft-lbs/psi	Max Diff. Pressure	2,560 psi		2,560 psi
Flow Range	400 - 750 gpm	Max Torque	25,030 ft-lbs		20,190 ft-lbs
Speed Range	98 - 184 rpm	Speed (Max Diff. & Flow)	151 rpm		130 rpm
Rotation	0.245 rev/gal	Max HP	720 hp		500 hp
Off-Bottom Pressure	170 psi	Stall Diff. Pressure	4,020 psi		
		Stall Torque	39,320 ft-lbs		

Elastomer Performance						
	007			VPX		
	Temperature Slope 0.000162 in/°F			Temperature Slope 0.000197 in/°F		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	4.489	-0.001	150 - 265 °F	4.501	-0.013	195 - 290 °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	7467.6 mm
Contour Length	7315.2 mm
Head Length	152.4 mm
Head Diameter	127.00 mm
Major Diameter	127.61 mm
Eccentric	6.81 mm
Material	17-4 PH
Weight	617 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	7620.0 mm
Contour Length	7213.6 mm
Tube O.D.	184.2 mm
Tube I.D.	159.5 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	8.5
Material	4140 HT
Weight	457 kgs
Thread Form	Contact Factory

Downhole Performance Specifications

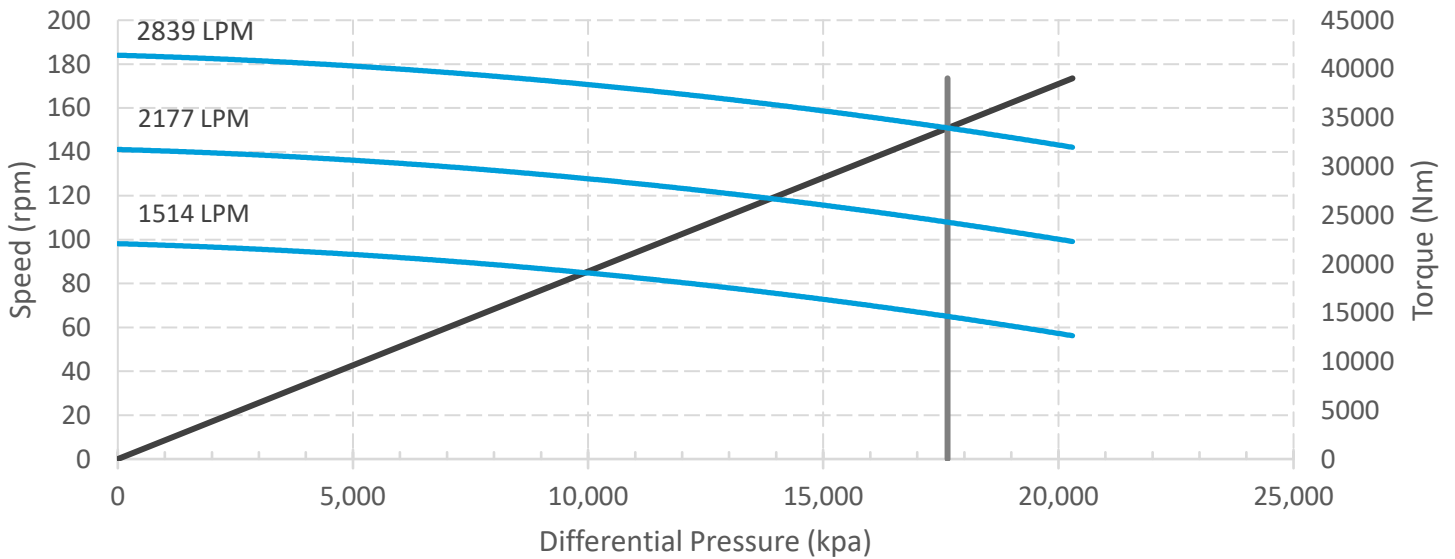
Torque Slope	1.92 Nm/kPa
Flow Range	1514 - 2839 lpm
Speed Range	98 - 184 rpm
Rotation	0.0647 rev/liter
Off-Bottom Pressure	1,172 kPa

Dyno Performance

Max Diff. Pressure	17651 kPa
Max Torque	33936 Nm
Speed (Max Diff. & Flow)	151 rpm
Max HP	537 kW
Stall Diff. Pressure	27717 kPa
Stall Torque	53311 Nm

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	114.02	-0.03	66 - 129 °C	114.33	-0.33	91 - 143 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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