



VIKING

Power Technologies

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DuraTorque Power Section

700 45 70 DT

7.00" OD 4/5 Lobes 7.0 Stages

Rotor Specification

Overall Length	202.50 in.
Contour Length	195.50 in.
Head Length	7.00 in.
Head Diameter	4.00 in.
Major Diameter	4.220 in.
Eccentric	0.355 in.
Material	17-4 PH
Weight	579 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	214.00 in.
Contour Length	194.00 in.
Tube O.D.	7.00 in.
Tube I.D.	5.75 in.
Cutback (Band / Non-Band)	10.00 / 10.00 in.
Stages	7.0
Material	4140 HT
Weight	855 lbs.
Thread Form	Contact Factory

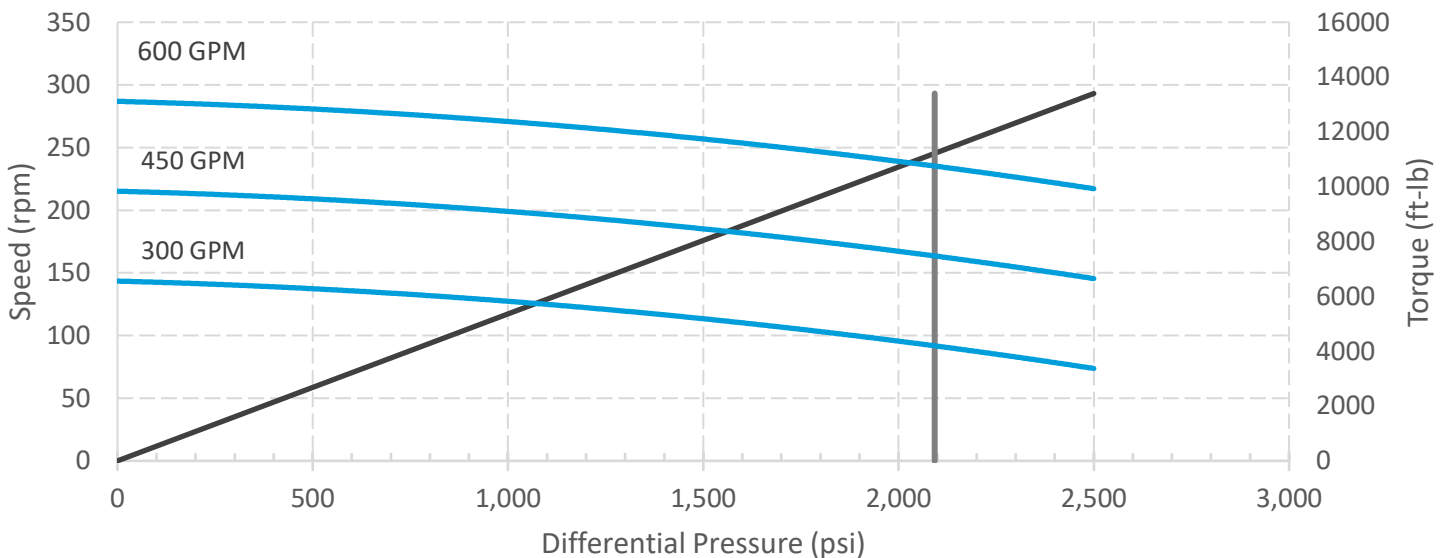
Downhole Performance Specifications

Torque Slope	5.36 ft-lbs/psi	Max Diff. Pressure	2,090 psi	2,090 psi
Flow Range	300 - 600 gpm	Max Torque	11,220 ft-lbs	9,050 ft-lbs
Speed Range	143 - 287 rpm	Speed (Max Diff. & Flow)	235 rpm	202 rpm
Rotation	0.478 rev/gal	Max HP	500 hp	345 hp
Off-Bottom Pressure	150 psi	Stall Diff. Pressure	3,280 psi	
		Stall Torque	17,580 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	3.509	0.001	170 - 320 °F	3.517	-0.007	210 - 360 °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	5143.5 mm
Contour Length	4965.7 mm
Head Length	177.8 mm
Head Diameter	101.60 mm
Major Diameter	107.19 mm
Eccentric	9.02 mm
Material	17-4 PH
Weight	263 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5435.6 mm
Contour Length	4927.6 mm
Tube O.D.	177.8 mm
Tube I.D.	146.1 mm
Cutback (Band / Non-Band)	254.0 / 254.0 mm
Stages	7.0
Material	4140 HT
Weight	388 kgs
Thread Form	Contact Factory

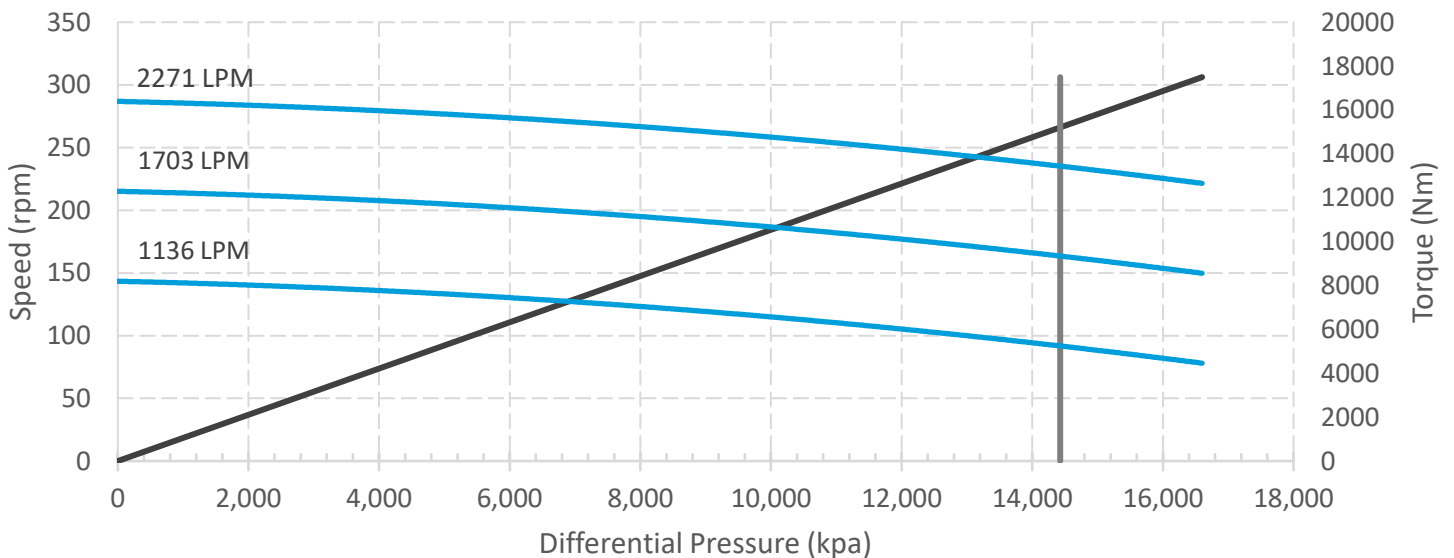
Downhole Performance Specifications

Torque Slope	1.05 Nm/kPa	Max Diff. Pressure	14410 kPa	14410 kPa
Flow Range	1136 - 2271 lpm	Max Torque	15212 Nm	12270 Nm
Speed Range	143 - 287 rpm	Speed (Max Diff. & Flow)	235 rpm	202 rpm
Rotation	0.1263 rev/liter	Max HP	373 kW	257 kW
Off-Bottom Pressure	1,034 kPa	Stall Diff. Pressure	22615 kPa	
		Stall Torque	23835 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	89.13	0.03	77 - 160 °C	89.33	-0.18	99 - 182 °C
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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