



VIKING

Power Technologies

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DuraTorque Power Section

800 78 40 DT

8.00" OD 7/8 Lobes 4.0 Stages

Rotor Specification

Overall Length	195.25 in.
Contour Length	188.25 in.
Head Length	7.00 in.
Head Diameter	4.75 in.
Major Diameter	5.186 in.
Eccentric	0.293 in.
Material	17-4 PH
Weight	946 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	203.25 in.
Contour Length	187.25 in.
Tube O.D.	8.00 in.
Tube I.D.	6.25 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	4.0
Material	4140 HT
Weight	1,202 lbs.
Thread Form	Contact Factory

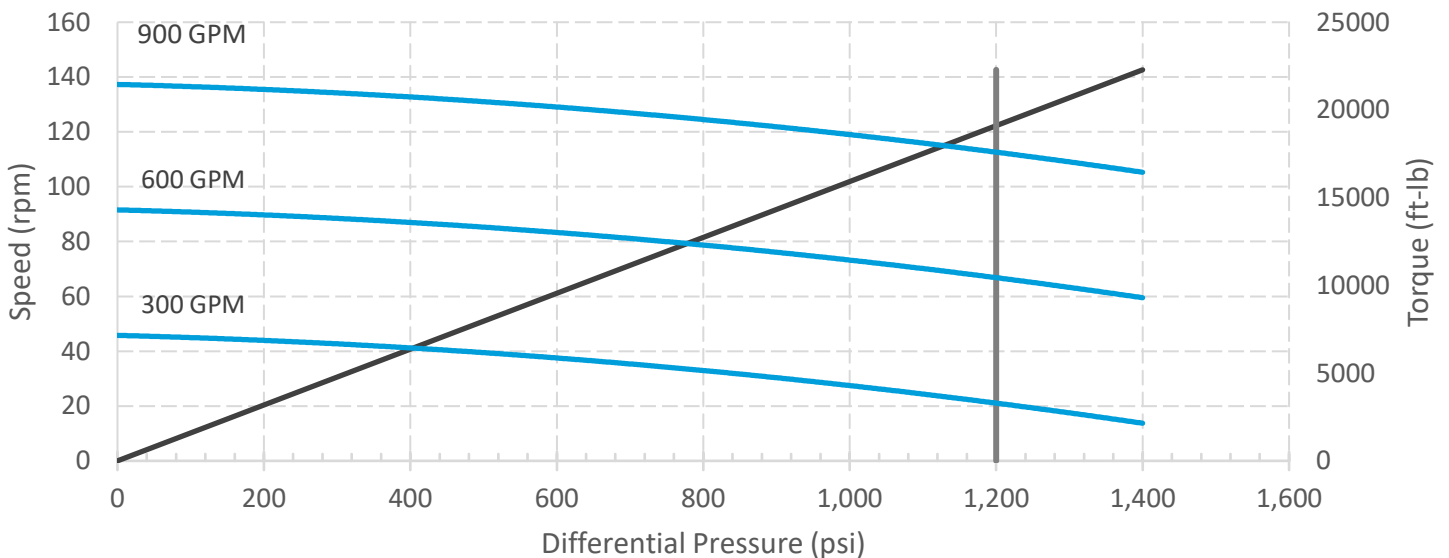
Downhole Performance Specifications

Torque Slope	15.92 ft-lbs/psi	Max Diff. Pressure	1,200 psi	1,200 psi
Flow Range	300 - 900 gpm	Max Torque	19,100 ft-lbs	15,410 ft-lbs
Speed Range	46 - 137 rpm	Speed (Max Diff. & Flow)	113 rpm	97 rpm
Rotation	0.153 rev/gal	Max HP	410 hp	285 hp
Off-Bottom Pressure	100 psi	Stall Diff. Pressure	1,880 psi	
		Stall Torque	29,930 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	4.586	0.014	75 - 225 °F	4.597	0.003	130 - 255 °F
Standard						
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	4959.4 mm
Contour Length	4781.6 mm
Head Length	177.8 mm
Head Diameter	120.65 mm
Major Diameter	131.72 mm
Eccentric	7.44 mm
Material	17-4 PH
Weight	429 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5162.6 mm
Contour Length	4756.2 mm
Tube O.D.	203.2 mm
Tube I.D.	158.8 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	4.0
Material	4140 HT
Weight	545 kgs
Thread Form	Contact Factory

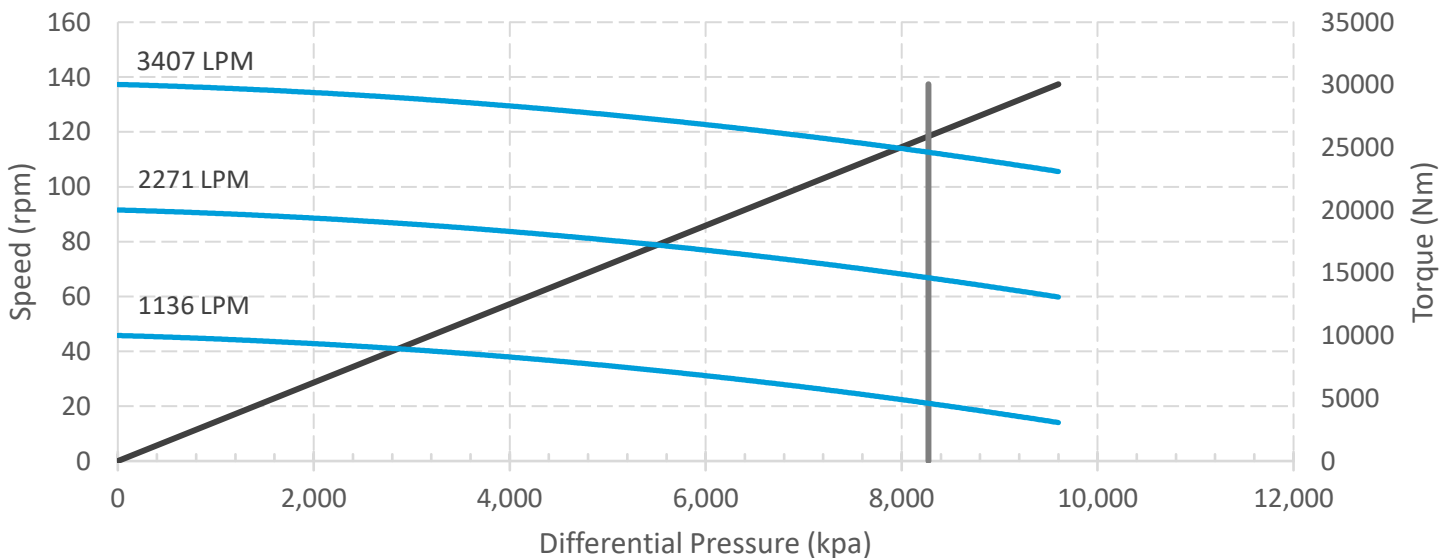
Downhole Performance Specifications

Torque Slope	3.13 Nm/kPa	Max Diff. Pressure	8274 kPa	8274 kPa
Flow Range	1136 - 3407 lpm	Max Torque	25896 Nm	20893 Nm
Speed Range	46 - 137 rpm	Speed (Max Diff. & Flow)	113 rpm	97 rpm
Rotation	0.0404 rev/liter	Max HP	306 kW	213 kW
Off-Bottom Pressure	689 kPa	Stall Diff. Pressure	12962 kPa	
		Stall Torque	40580 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize	116.48	0.36	24 - 107 °C	116.76	0.08	54 - 124 °C
Standard						
0.5 Oversize						
1.0 Oversize						
1.5 Oversize						
2.0 Oversize						



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