



VIKING

Power Technologies

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Conventional Power Section

675 78 60

6.75" OD 7/8 Lobes 6.0 Stages

Rotor Specification

Overall Length	223.00 in.
Contour Length	216.00 in.
Head Length	7.00 in.
Head Diameter	4.50 in.
Major Diameter	4.520 in.
Eccentric	0.256 in.
Material	17-4 PH
Weight	836 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	235.00 in.
Contour Length	219.00 in.
Tube O.D.	6.75 in.
Tube I.D.	5.50 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	6.0
Material	4140 HT
Weight	869 lbs.
Thread Form	Contact Factory

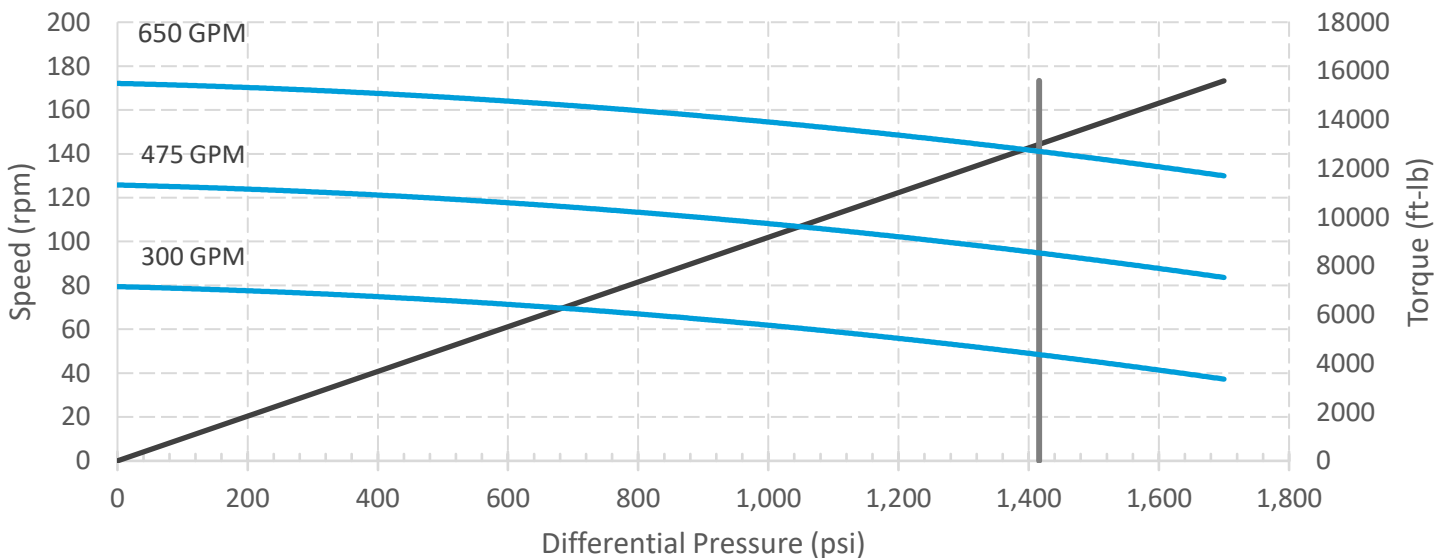
Downhole Performance Specifications

Torque Slope	9.17 ft-lbs/psi	Max Diff. Pressure	1,420 psi	1,420 psi
Flow Range	300 - 650 gpm	Max Torque	12,990 ft-lbs	10,480 ft-lbs
Speed Range	79 - 172 rpm	Speed (Max Diff. & Flow)	141 rpm	121 rpm
Rotation	0.265 rev/gal	Max HP	350 hp	240 hp
Off-Bottom Pressure	120 psi	Stall Diff. Pressure	2,230 psi	
		Stall Torque	20,460 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	3.987	0.021	75 - 170 °F	4.004	0.004	110 - 215 °F
0.5 Oversize						
1.0 Oversize	4.015	-0.007	170 - 290 °F	4.031	-0.023	210 - 310 °F
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	5664.2 mm
Contour Length	5486.4 mm
Head Length	177.8 mm
Head Diameter	114.30 mm
Major Diameter	114.81 mm
Eccentric	6.50 mm
Material	17-4 PH
Weight	379 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	5969.0 mm
Contour Length	5562.6 mm
Tube O.D.	171.5 mm
Tube I.D.	139.7 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	6.0
Material	4140 HT
Weight	394 kgs
Thread Form	Contact Factory

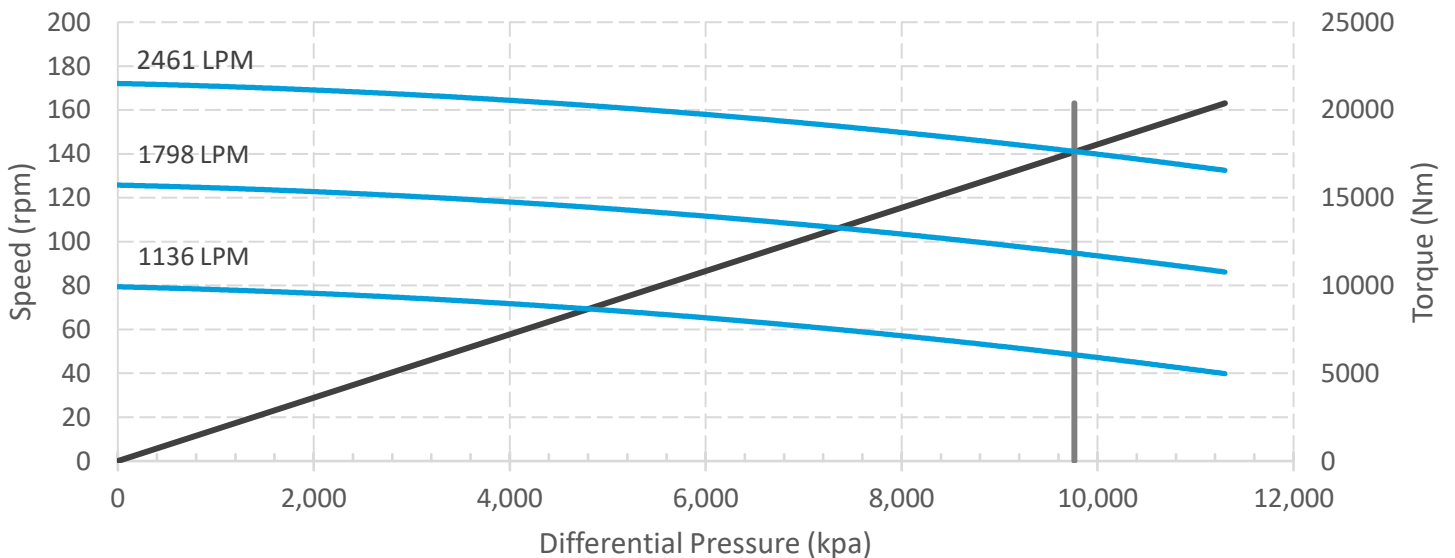
Downhole Performance Specifications

Torque Slope	1.80 Nm/kPa	Max Diff. Pressure	9791 kPa	9791 kPa
Flow Range	1136 - 2461 lpm	Max Torque	17612 Nm	14209 Nm
Speed Range	79 - 172 rpm	Speed (Max Diff. & Flow)	141 rpm	121 rpm
Rotation	0.0700 rev/liter	Max HP	261 kW	179 kW
Off-Bottom Pressure	827 kPa	Stall Diff. Pressure	15375 kPa	
		Stall Torque	27740 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Temperature Slope 0.010150 mm/°C			Temperature Slope 0.012390 mm/°C		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	101.27	0.53	24 - 77 °C	101.70	0.10	43 - 102 °C
0.5 Oversize						
1.0 Oversize	101.98	-0.18	77 - 143 °C	102.39	-0.58	99 - 154 °C
1.5 Oversize						
2.0 Oversize						



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