



VIKING

Power Technologies

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Conventional Power Section

475 56 83

4.75" OD 5/6 Lobes 8.3 Stages

Rotor Specification

Overall Length	229.50 in.
Contour Length	223.00 in.
Head Length	6.50 in.
Head Diameter	3.13 in.
Major Diameter	2.916 in.
Eccentric	0.207 in.
Material	17-4 PH
Weight	332 lbs.
Thread Form	Contact Factory

Stator Specification

Overall Length	242.50 in.
Contour Length	226.50 in.
Tube O.D.	4.75 in.
Tube I.D.	3.75 in.
Cutback (Band / Non-Band)	8.00 / 8.00 in.
Stages	8.3
Material	4140 HT
Weight	500 lbs.
Thread Form	Contact Factory

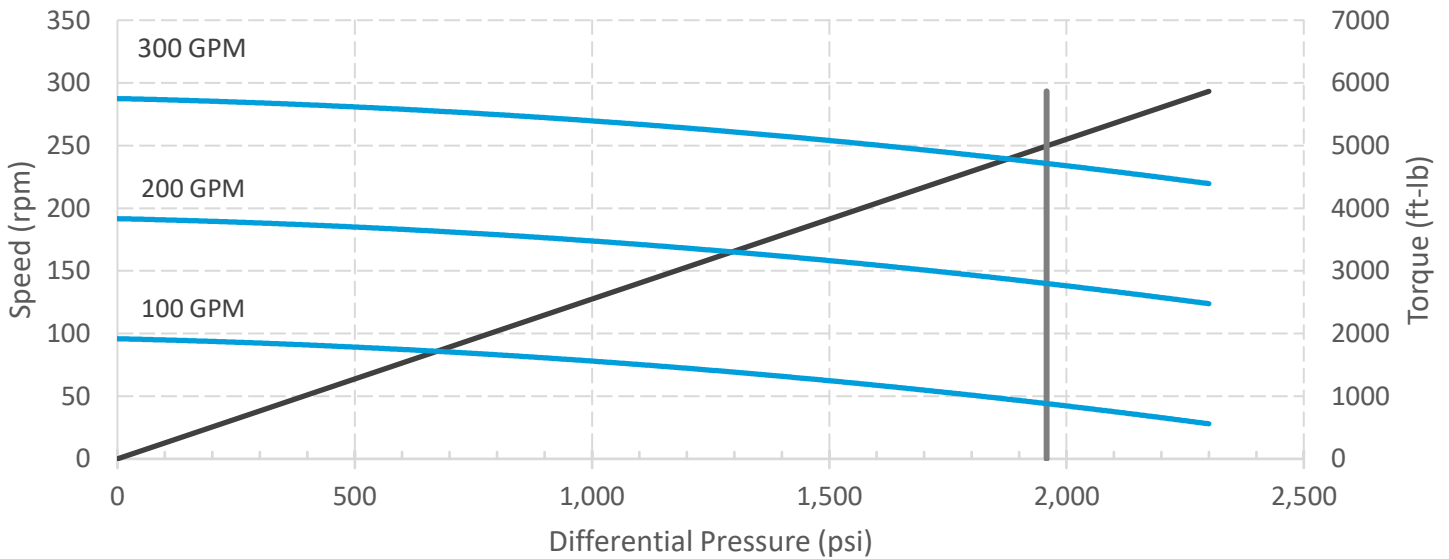
Downhole Performance Specifications

Torque Slope	2.55 ft-lbs/psi	Max Diff. Pressure	1,960 psi	1,960 psi
Flow Range	100 - 300 gpm	Max Torque	4,990 ft-lbs	4,020 ft-lbs
Speed Range	96 - 287 rpm	Speed (Max Diff. & Flow)	236 rpm	202 rpm
Rotation	0.958 rev/gal	Max HP	225 hp	155 hp
Off-Bottom Pressure	106 psi	Stall Diff. Pressure	3,080 psi	
		Stall Torque	7,850 ft-lbs	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
	Temperature Slope 0.000224 in/°F			Temperature Slope 0.000274 in/°F		
1.0 Undersize						
Standard	2.503	0.000	125 - 230 °F	2.520	-0.017	180 - 260 °F
0.5 Oversize						
1.0 Oversize	2.519	-0.016	200 - 300 °F	2.535	-0.032	235 - 315 °F
1.5 Oversize						
2.0 Oversize	2.534	-0.031	265 - 320 °F	2.550	-0.047	285 - 370 °F



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	5829.3 mm
Contour Length	5664.2 mm
Head Length	165.1 mm
Head Diameter	79.38 mm
Major Diameter	74.07 mm
Eccentric	5.25 mm
Material	17-4 PH
Weight	151 kgs
Thread Form	Contact Factory

Stator Specification

Overall Length	6159.5 mm
Contour Length	5753.1 mm
Tube O.D.	120.7 mm
Tube I.D.	95.3 mm
Cutback (Band / Non-Band)	203.2 / 203.2 mm
Stages	8.3
Material	4140 HT
Weight	227 kgs
Thread Form	Contact Factory

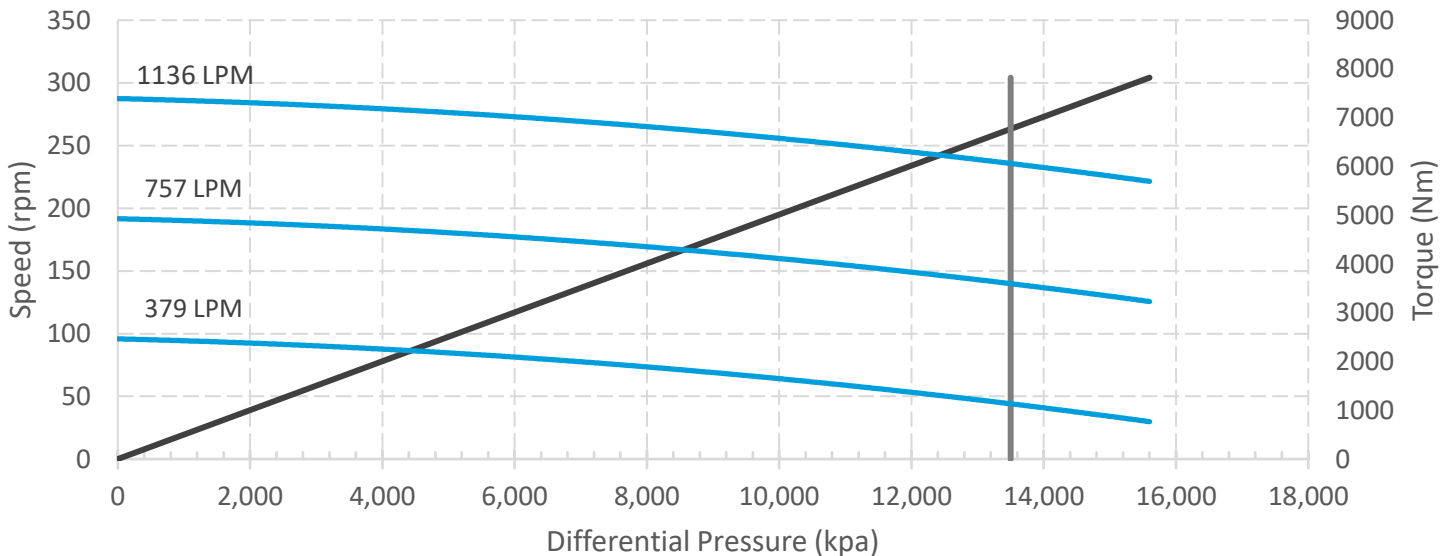
Downhole Performance Specifications

Torque Slope	0.50 Nm/kPa	Max Diff. Pressure	13514 kPa	13514 kPa
Flow Range	379 - 1136 lpm	Max Torque	6766 Nm	5450 Nm
Speed Range	96 - 287 rpm	Speed (Max Diff. & Flow)	236 rpm	202 rpm
Rotation	0.2531 rev/liter	Max HP	168 kW	116 kW
Off-Bottom Pressure	731 kPa	Stall Diff. Pressure	21236 kPa	
		Stall Torque	10643 Nm	

Dyno Performance

Elastomer Performance

	007			VPX		
	Minor	Nominal Fit	Optimal Temperature	Minor	Nominal Fit	Optimal Temperature
1.0 Undersize						
Standard	63.58	0.00	52 - 110 °C	64.01	-0.43	82 - 127 °C
0.5 Oversize						
1.0 Oversize	63.98	-0.41	93 - 149 °C	64.39	-0.81	113 - 157 °C
1.5 Oversize						
2.0 Oversize	64.36	-0.79	129 - 160 °C	64.77	-1.19	141 - 188 °C



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