



VIKING

Power Technologies

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Conventional Power Section

800 78 34

8.00" OD 7/8 Lobes 3.4 Stages

Rotor Specification

| | |
|----------------|-----------------|
| Overall Length | 293.00 in. |
| Contour Length | 285.00 in. |
| Head Length | 8.00 in. |
| Head Diameter | 4.75 in. |
| Major Diameter | 5.307 in. |
| Eccentric | 0.291 in. |
| Material | 17-4 PH |
| Weight | 1,476 lbs. |
| Thread Form | Contact Factory |

Stator Specification

| | |
|---------------------------|-----------------|
| Overall Length | 300.00 in. |
| Contour Length | 284.00 in. |
| Tube O.D. | 8.00 in. |
| Tube I.D. | 6.25 in. |
| Cutback (Band / Non-Band) | 8.00 / 8.00 in. |
| Stages | 3.4 |
| Material | 4140 HT |
| Weight | 1,769 lbs. |
| Thread Form | Contact Factory |

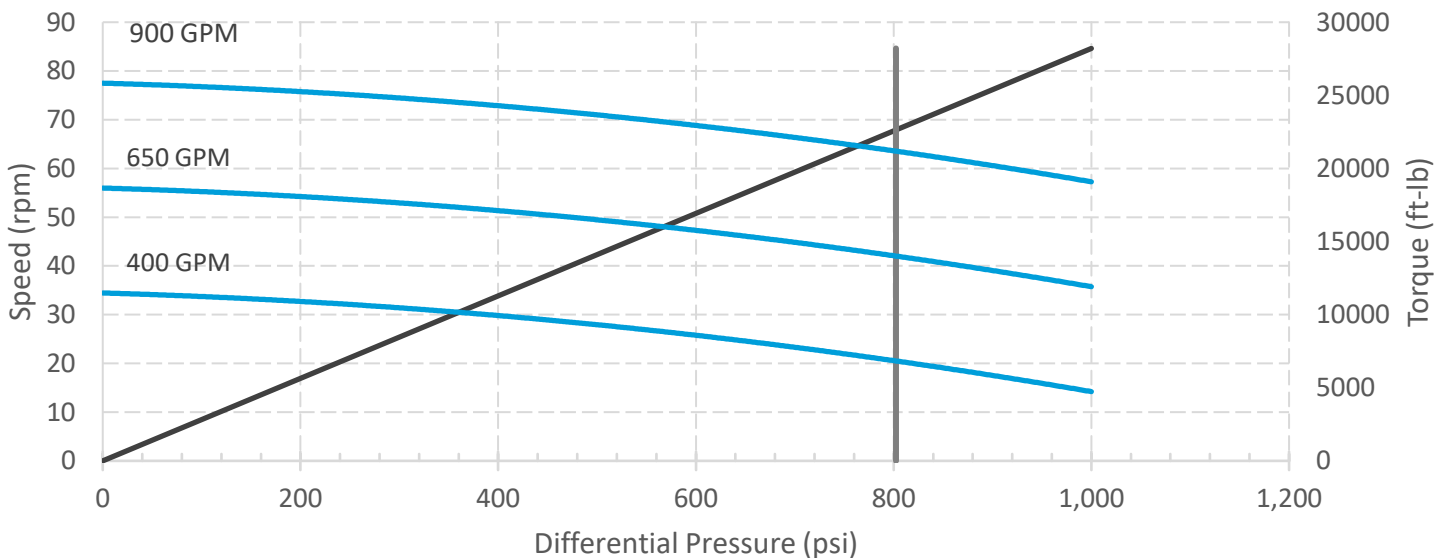
Downhole Performance Specifications

| | | | | | |
|---------------------|------------------|--------------------------|---------------|--|---------------|
| Torque Slope | 28.21 ft-lbs/psi | Max Diff. Pressure | 800 psi | | 800 psi |
| Flow Range | 400 - 900 gpm | Max Torque | 22,630 ft-lbs | | 18,250 ft-lbs |
| Speed Range | 34 - 77 rpm | Speed (Max Diff. & Flow) | 64 rpm | | 55 rpm |
| Rotation | 0.086 rev/gal | Max HP | 275 hp | | 190 hp |
| Off-Bottom Pressure | 70 psi | Stall Diff. Pressure | 1,260 psi | | |
| | | Stall Torque | 35,540 ft-lbs | | |

Dyno Performance

Elastomer Performance

| | 007 | | | VPX | | |
|---------------|----------------------------------|-------------|---------------------|----------------------------------|-------------|---------------------|
| | Minor | Nominal Fit | Optimal Temperature | Minor | Nominal Fit | Optimal Temperature |
| | Temperature Slope 0.000247 in/°F | | | Temperature Slope 0.000302 in/°F | | |
| 1.0 Undersize | 4.715 | 0.010 | 100 - 235 °F | 4.734 | -0.009 | 160 - 265 °F |
| Standard | 4.729 | -0.004 | 160 - 290 °F | 4.747 | -0.022 | 200 - 310 °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 | 7442.2 mm |
| Contour Length | 7239.0 mm |
| Head Length | 203.2 mm |
| Head Diameter | 120.65 mm |
| Major Diameter | 134.80 mm |
| Eccentric | 7.39 mm |
| Material | 17-4 PH |
| Weight | 670 kgs |
| Thread Form | Contact Factory |

Stator Specification

| | |
|---------------------------|------------------|
| Overall Length | 7620.0 mm |
| Contour Length | 7213.6 mm |
| Tube O.D. | 203.2 mm |
| Tube I.D. | 158.8 mm |
| Cutback (Band / Non-Band) | 203.2 / 203.2 mm |
| Stages | 3.4 |
| Material | 4140 HT |
| Weight | 802 kgs |
| Thread Form | Contact Factory |

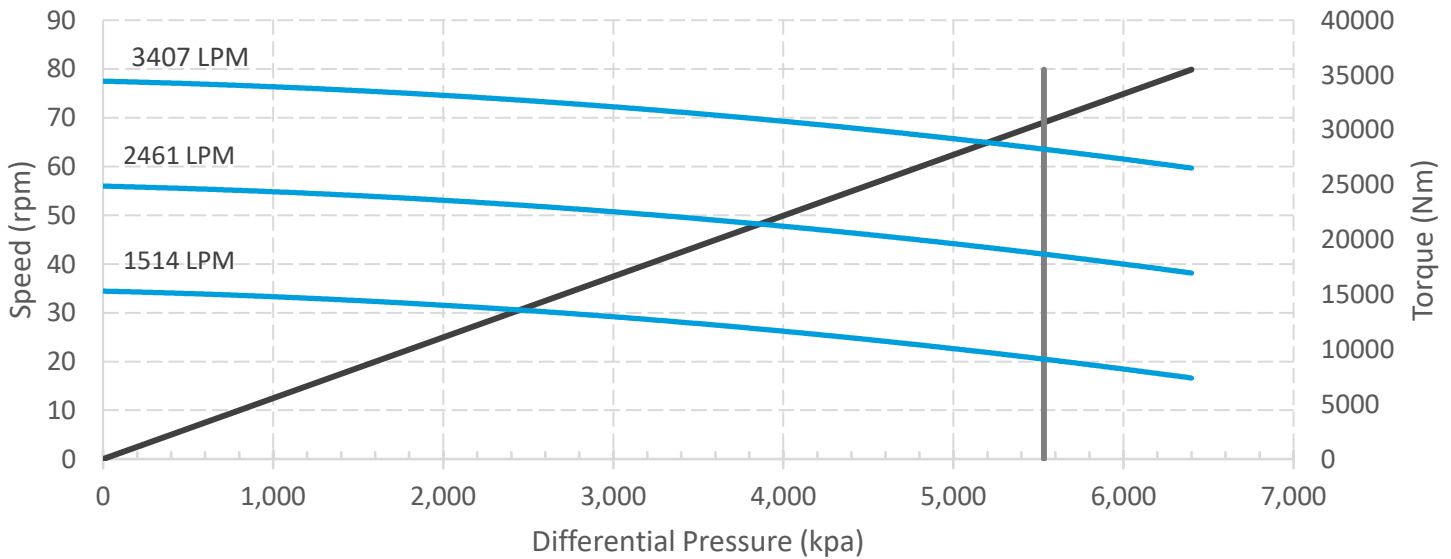
Downhole Performance Specifications

| | | | | |
|---------------------|------------------|--------------------------|----------|----------|
| Torque Slope | 5.55 Nm/kPa | Max Diff. Pressure | 5516 kPa | 5516 kPa |
| Flow Range | 1514 - 3407 lpm | Max Torque | 30682 Nm | 24744 Nm |
| Speed Range | 34 - 77 rpm | Speed (Max Diff. & Flow) | 64 rpm | 55 rpm |
| Rotation | 0.0227 rev/liter | Max HP | 205 kW | 142 kW |
| Off-Bottom Pressure | 483 kPa | Stall Diff. Pressure | 8687 kPa | |
| | | Stall Torque | 48186 Nm | |

Dyno Performance

Elastomer Performance

| | 007 | | | VPX | | |
|---------------|----------------------------------|-------------|---------------------|----------------------------------|-------------|---------------------|
| | Minor | Nominal Fit | Optimal Temperature | Minor | Nominal Fit | Optimal Temperature |
| | Temperature Slope 0.011293 mm/°C | | | Temperature Slope 0.013807 mm/°C | | |
| 1.0 Undersize | 119.76 | 0.25 | 38 - 113 °C | 120.24 | -0.23 | 71 - 129 °C |
| Standard | 120.12 | -0.10 | 71 - 143 °C | 120.57 | -0.56 | 93 - 154 °C |
| 0.5 Oversize | | | | | | |
| 1.0 Oversize | | | | | | |
| 1.5 Oversize | | | | | | |
| 2.0 Oversize | | | | | | |



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