



VIKING

Power Technologies

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DuraTorque Power Section

500 67 80 DT

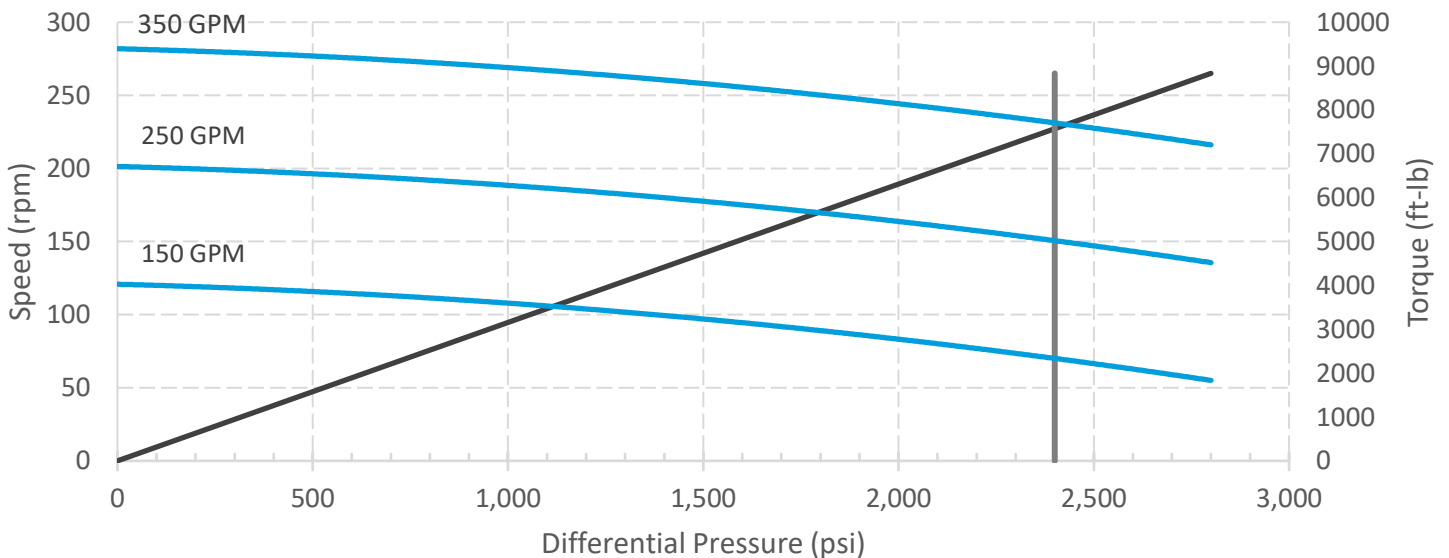
5.00" OD 6/7 Lobes 8.0 Stages

| Rotor Specification | |
|---------------------|-----------------|
| Overall Length | 241.00 in. |
| Contour Length | 235.00 in. |
| Head Length | 6.00 in. |
| Head Diameter | 3.31 in. |
| Major Diameter | 3.018 in. |
| Eccentric | 0.192 in. |
| Material | 17-4 PH |
| Weight | 386 lbs. |
| Thread Form | Contact Factory |

| Stator Specification | |
|---------------------------|------------------|
| Overall Length | 250.00 in. |
| Contour Length | 232.00 in. |
| Tube O.D. | 5.00 in. |
| Tube I.D. | 4.00 in. |
| Cutback (Band / Non-Band) | 8.00 / 10.00 in. |
| Stages | 8.0 |
| Material | 4140 HT |
| Weight | 553 lbs. |
| Thread Form | Contact Factory |

| Downhole Performance Specifications | | | | Dyno Performance | |
|-------------------------------------|-----------------|--------------------------|---------------|------------------|--------------|
| Torque Slope | 3.16 ft-lbs/psi | Max Diff. Pressure | 2,400 psi | | 2,400 psi |
| Flow Range | 150 - 350 gpm | Max Torque | 7,570 ft-lbs | | 6,110 ft-lbs |
| Speed Range | 121 - 282 rpm | Speed (Max Diff. & Flow) | 231 rpm | | 198 rpm |
| Rotation | 0.805 rev/gal | Max HP | 335 hp | | 230 hp |
| Off-Bottom Pressure | 115 psi | Stall Diff. Pressure | 3,770 psi | | |
| | | Stall Torque | 11,890 ft-lbs | | |

| Elastomer Performance | | | | | | |
|-----------------------|----------------------------------|-------------|---------------------|----------------------------------|-------------|---------------------|
| | 007 | | | VPX | | |
| | Temperature Slope 0.000127 in/°F | | | Temperature Slope 0.000155 in/°F | | |
| | Minor | Nominal Fit | Optimal Temperature | Minor | Nominal Fit | Optimal Temperature |
| 1.0 Undersize | | | | | | |
| Standard | 2.648 | -0.014 | 255 - 320 °F | 2.657 | -0.023 | 280 - 375 °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 | 6121.4 mm |
| Contour Length | 5969.0 mm |
| Head Length | 152.4 mm |
| Head Diameter | 84.07 mm |
| Major Diameter | 76.66 mm |
| Eccentric | 4.88 mm |
| Material | 17-4 PH |
| Weight | 175 kgs |
| Thread Form | Contact Factory |

Stator Specification

| | |
|---------------------------|------------------|
| Overall Length | 6350.0 mm |
| Contour Length | 5892.8 mm |
| Tube O.D. | 127.0 mm |
| Tube I.D. | 101.6 mm |
| Cutback (Band / Non-Band) | 203.2 / 254.0 mm |
| Stages | 8.0 |
| Material | 4140 HT |
| Weight | 251 kgs |
| Thread Form | Contact Factory |

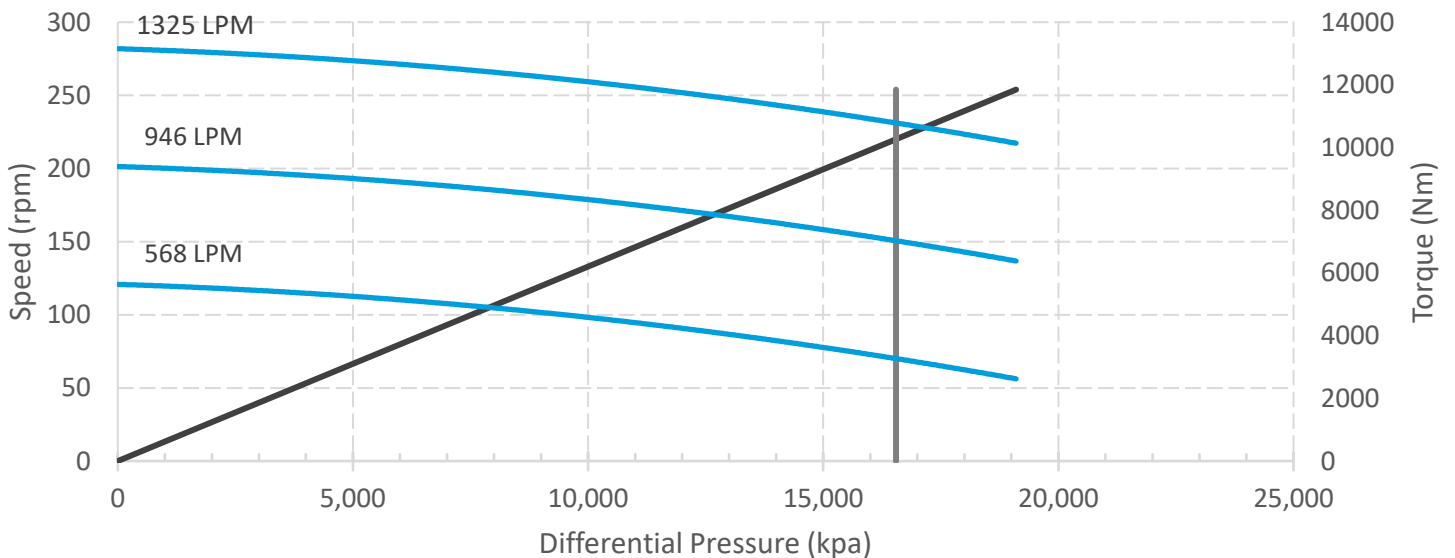
Downhole Performance Specifications

| | | | | |
|---------------------|------------------|--------------------------|-----------|-----------|
| Torque Slope | 0.62 Nm/kPa | Max Diff. Pressure | 16547 kPa | 16547 kPa |
| Flow Range | 568 - 1325 lpm | Max Torque | 10264 Nm | 8284 Nm |
| Speed Range | 121 - 282 rpm | Speed (Max Diff. & Flow) | 231 rpm | 198 rpm |
| Rotation | 0.2127 rev/liter | Max HP | 250 kW | 172 kW |
| Off-Bottom Pressure | 793 kPa | Stall Diff. Pressure | 25993 kPa | |
| | | Stall Torque | 16121 Nm | |

Dyno Performance

Elastomer Performance

| | 007 | | | VPX | | |
|---------------|----------------------------------|-------------|---------------------|----------------------------------|-------------|---------------------|
| | Minor | Nominal Fit | Optimal Temperature | Minor | Nominal Fit | Optimal Temperature |
| | Temperature Slope 0.005806 mm/°C | | | Temperature Slope 0.007087 mm/°C | | |
| 1.0 Undersize | | | | | | |
| Standard | 67.26 | -0.36 | 124 - 160 °C | 67.49 | -0.58 | 138 - 191 °C |
| 0.5 Oversize | | | | | | |
| 1.0 Oversize | | | | | | |
| 1.5 Oversize | | | | | | |
| 2.0 Oversize | | | | | | |



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