

POWER SECTION

Model No: AT900568.0 OPTI

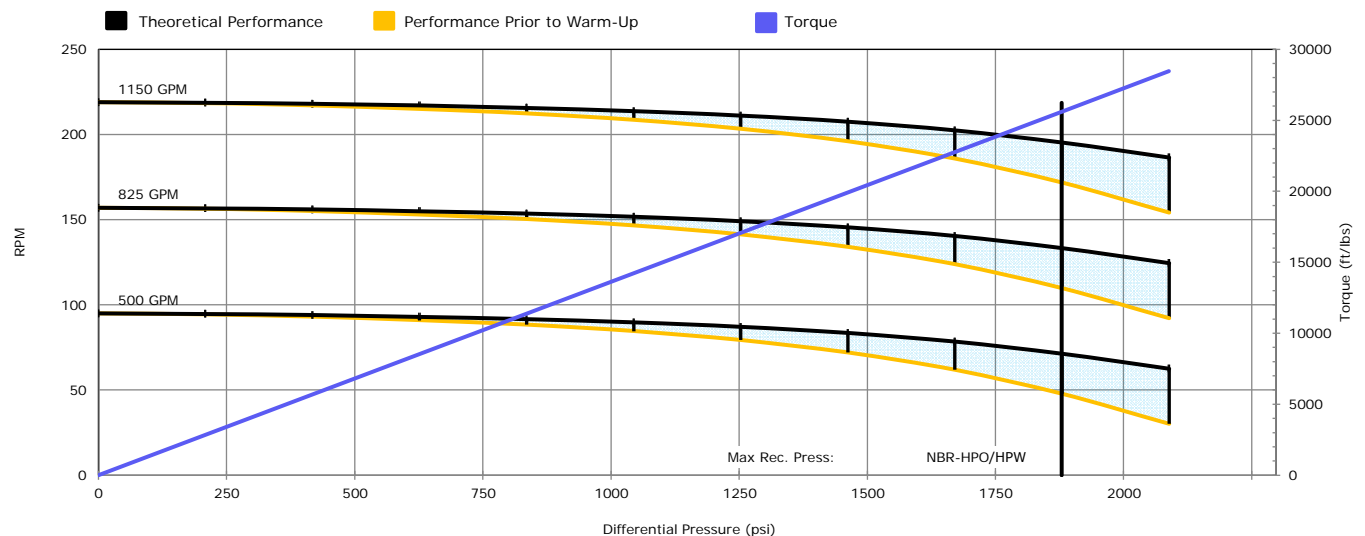
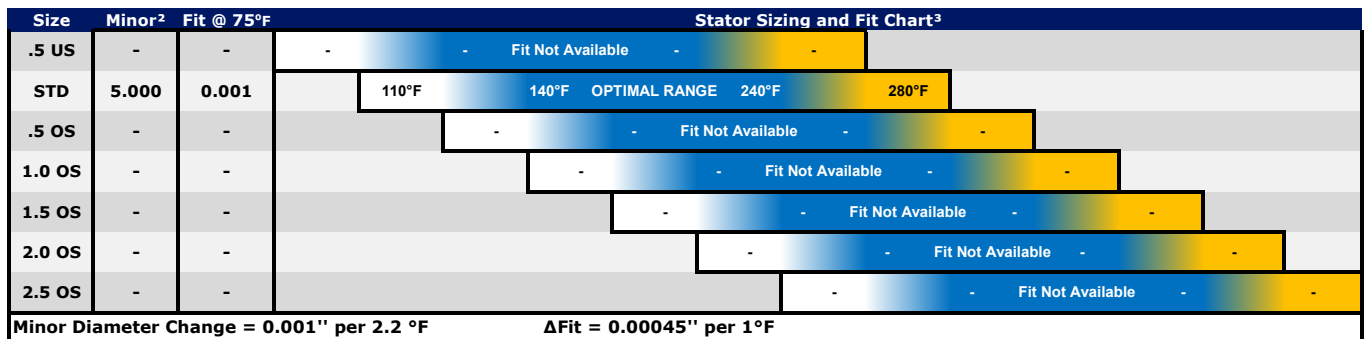
Revised: 3/27/2023

| Rotor Specifications | |
|----------------------|----------------------|
| | inches |
| Overall Length | 292.00 |
| Contour Length | 285.00 |
| Major Diameter | 5.825 |
| Eccentricity | 0.412 |
| Head diameter | 5.900 |
| Thread Form | 1.375-6 SA |
| Weight | 0 lbs |
| Material | 17-4 PH ¹ |

| Stator Specifications | |
|------------------------|-----------------------|
| | inches |
| Overall Length | 300.00 |
| Tube OD | 9.00 |
| Tube ID | 7.25 |
| Rubber Cutback Top/End | 10.00 / 10.00 |
| Weight | 0 lbs |
| Number of Stages | 8.0 |
| Tube Material | 4140/4142 Alloy Steel |
| Rubber Options | NBR-HPO/NBR-HPW |

| Performance Specifications | |
|----------------------------|------------|
| Flow Range (gpm) | 500 - 1150 |
| Speed Range (rpm) | 100 - 220 |
| Torque Slope (ft-lb/psi) | 13.62 |
| Rotation (rev/gal) | 0.190 |
| Off Bottom Pressure (psi) | 180 |

| Performance Details | |
|------------------------|-----------------|
| | NBR-HPO/NBR-HPW |
| Max Diff Press (psi) | 1880 |
| Stall Diff Press (psi) | 2970 |
| Max Torque (ft-lb) | 25610 |
| Stall Torque (ft-lb) | 40330 |



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 75°F ³ Chart temp shows potential of the individual fit and not necessarily the elastomer. BHCT Exceeding 320°F will void warranty for NBR-HPO/NBR-HPW.

Performance curves are based on new rotor and stator dimensions and for reference only. Actual performance may vary depending on fit and drilling conditions. The stall torque may exceed that specified for the connected components. Operating over the recommended limits may result in damage to the power section and connected components. Please visit www.AbacoDrilling.com for the latest specification revisions.

LOCATIONS

US: Headquarters
US: Sales & Distribution
CANADA: Stator Manufacturing
DUBAI UAE: Stator Manufacturing

713 Northpark Central Dr., #400 Houston, TX 77073 - Tel: (281) 869-0700 - Fax: (281) 869-0701
11308 West Interstate 20 East, Odessa, TX 79765 - Tel: (432) 248-1814
6303-39th Street Leduc, Alberta T9E 0Z3 Canada - Tel: (780) 986-8947 - Fax: (780) 986-8842
Oilfields Supply Center B#57, Jebel Ali, Dubai UAE, P.O. Box 19909 - Tel: 971-4-870-8600

POWER SECTION - METRIC

Model No: **AT900568.0 OPTI PRELIM**

Revised: 3/27/2023

| Rotor Specifications | |
|----------------------|----------------------|
| | mm |
| Overall Length | 7416.8 |
| Contour Length | 7239.0 |
| Major Diameter | 147.96 |
| Eccentricity | 10.47 |
| Head diameter | 149.86 |
| Thread Form | 1.375-6 SA |
| Weight | 0 kg |
| Material | 17-4 PH ¹ |

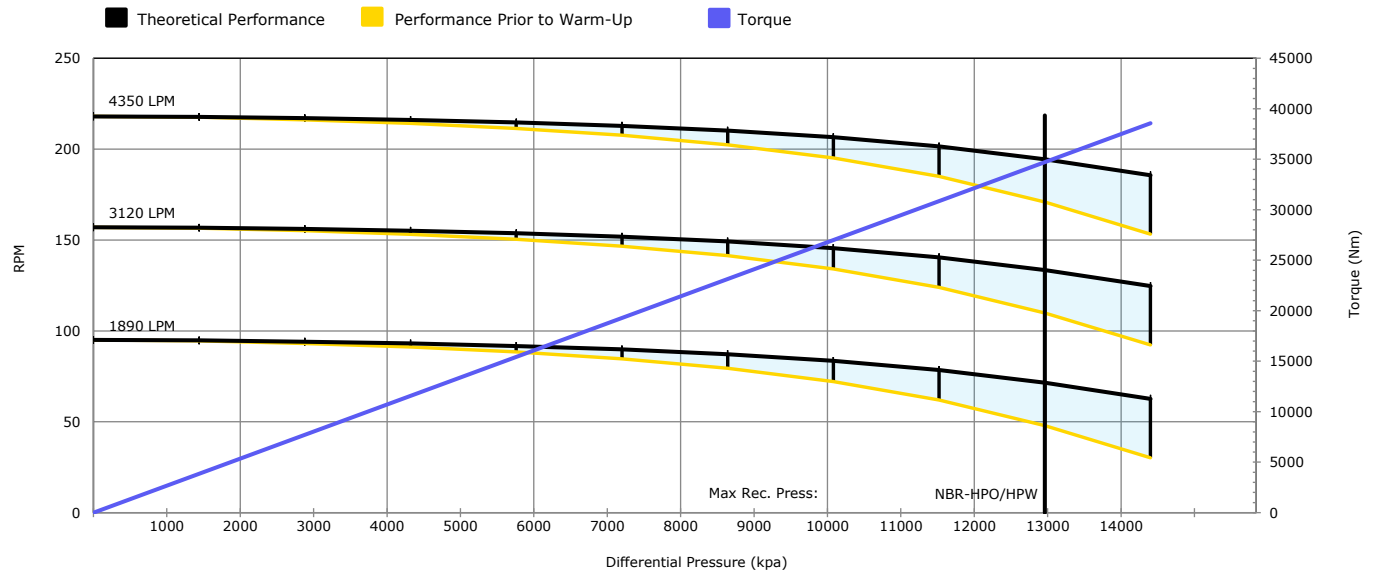
| Stator Specifications | |
|------------------------|--------------------------------|
| | mm |
| Overall Length | 7620.0 |
| Tube OD | 228.6 |
| Tube ID | 184.2 |
| Rubber Cutback Top/End | 254.0 / 254.0 |
| Weight | 0 kg |
| Number of Stages | 8.0 |
| Tube Material | 4140/4142 Seamless Alloy Steel |
| Rubber Options | NBR-HPO/NBR-HPW |

| Performance Specifications | |
|----------------------------|-------------|
| Flow Range (lpm) | 1890 - 4350 |
| Speed Range (rpm) | 100 - 220 |
| Torque Slope (Nm/kpa) | 2.68 |
| Rotation (rev/Liter) | 0.0502 |
| Off Bottom Pressure (kpa) | 1270 |

| Performance Details | |
|------------------------|-----------------|
| | NBR-HPO/NBR-HPW |
| Max Diff Press (kpa) | 13000 |
| Stall Diff Press (kpa) | 20500 |
| Max Torque (Nm) | 34800 |
| Stall Torque (Nm) | 54700 |

| Size | Minor ² | Minor ² | Stator Sizing and Fit Chart ³ | |
|--------|--------------------|--------------------|--|--------------------------------|
| .5 US | - | - | - | Fit Not Available |
| STD | 127.000 | 0.013 | 40°C | 60°C OPTIMAL RANGE 120°C 140°C |
| .5 OS | - | - | - | Fit Not Available |
| 1.0 OS | - | - | - | Fit Not Available |
| 1.5 OS | - | - | - | Fit Not Available |
| 2.0 OS | - | - | - | Fit Not Available |
| 2.5 OS | - | - | - | Fit Not Available |

Minor Diameter Change = 0.025 mm per 1.23 °C ΔFit = 0.0206 mm per 1°C



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 25°C ³ Chart temp shows potential of the individual fit and not necessarily the elastomer. BHCT Exceeding 160°C will void warranty for NBR-HPO/NBR-HPW.

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