

POWER SECTION

Model No: AT962346.0

Revised: 12/3/2020

| Rotor Specifications | |
|----------------------|----------------------|
| | inches |
| Overall Length | 219.00 |
| Contour Length | 212.00 |
| Major Diameter | 5.978 |
| Eccentricity | 0.599 |
| Head diameter | 5.500 |
| Thread Form | 4.00 API FH |
| Weight | 1163 lbs |
| Material | 17-4 PH ¹ |

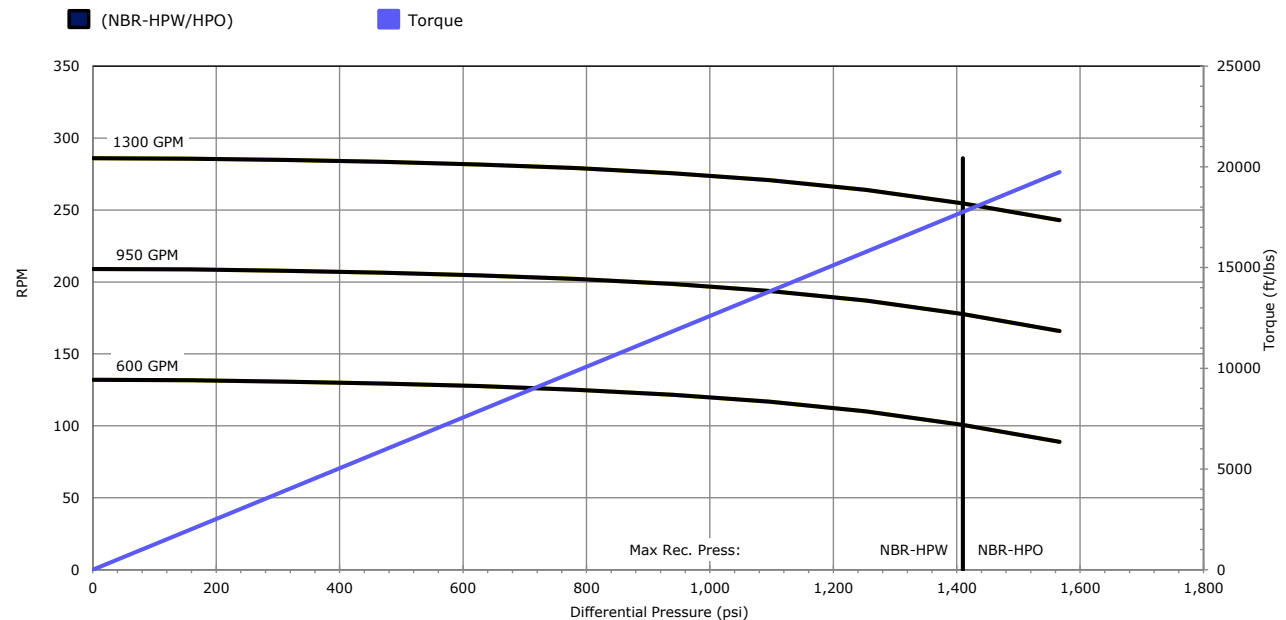
| Stator Specifications | |
|------------------------|-----------------------|
| | inches |
| Overall Length | 228.00 |
| Tube OD | 9.63 |
| Tube ID | 7.88 |
| Rubber Cutback Top/End | 9.00 / 9.00 |
| Weight | 1802 lbs |
| Number of Stages | 6.0 |
| Tube Material | 4140/4142 Alloy Steel |
| Rubber Options | NBR-HPW & NBR-HPO |

| NBR-HPW (in) | | Fits (+ Compression / - Loose) | | | | |
|--------------|--------------------|--------------------------------|--------|--------|--------|---------------------|
| Size | Minor ² | 75 °F | 125 °F | 175 °F | 250 °F | 300 °F ³ |
| .5 US | | | | | | |
| STD | 4.759 | 0.020 | 0.049 | 0.078 | 0.120 | 0.149 |
| .5 OS | | | | | | |
| 1.0 OS | | | | | | |
| 1.5 OS | | | | | | |
| 2.0 OS | | | | | | |
| 2.5 OS | | | | | | |

| NBR-HPO (in) | | Fits (+ Compression / - Loose) | | | | |
|--------------|--------------------|--------------------------------|--------|--------|--------|---------------------|
| Size | Minor ² | 75 °F | 125 °F | 175 °F | 250 °F | 300 °F ³ |
| .5 US | | | | | | |
| STD | 4.759 | 0.020 | 0.049 | 0.078 | 0.120 | 0.149 |
| .5 OS | | | | | | |
| 1.0 OS | | | | | | |
| 1.5 OS | | | | | | |
| 2.0 OS | | | | | | |
| 2.5 OS | | | | | | |

| Performance Specifications | |
|----------------------------|------------|
| Flow Range (gpm) | 600 - 1300 |
| Speed Range (rpm) | 130 - 290 |
| Torque Slope (ft-lb/psi) | 12.60 |
| Rotation (rev/gal) | 0.220 |
| Off Bottom Pressure (psi) | 200 |

| Performance Details | | |
|------------------------|---------|---------|
| | NBR-HPW | NBR-HPO |
| Max Diff Press (psi) | 1410 | 1410 |
| Stall Diff Press (psi) | 2230 | 2230 |
| Max Torque (ft-lb) | 17770 | 17770 |
| Stall Torque (ft-lb) | 27990 | 27990 |



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 75°F ³ BHCT Exceeding 320°F will void warranty for NBR-HPW/HPO.
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 713 Northpark Central Dr., #400 Houston, TX 77073 - Tel: (281) 869-0700 - Fax: (281) 869-0701
US: Sales & Distribution 11308 West Interstate 20 East, Odessa, TX 79765 - Tel: (432) 248-1814
CANADA: Stator Manufacturing 6303-39th Street Leduc, Alberta T9E 0Z3 Canada - Tel: (780) 986-8947 - Fax: (780) 986-8842
DUBAI UAE: Stator Manufacturing Oilfields Supply Center B#57, Jebel Ali, Dubai UAE, P.O. Box 19909 - Tel: 971-4-870-8600

POWER SECTION - METRIC

Model No: AT962346.0

Revised: 12/3/2020

| Rotor Specifications | |
|----------------------|----------------------|
| | mm |
| Overall Length | 5562.6 |
| Contour Length | 5384.8 |
| Major Diameter | 151.84 |
| Eccentricity | 15.22 |
| Head diameter | 139.70 |
| Thread Form | 4.00 API FH |
| Weight | 527 kg |
| Material | 17-4 PH ¹ |

| Stator Specifications | |
|------------------------|--------------------------------|
| | mm |
| Overall Length | 5791.2 |
| Tube OD | 244.5 |
| Tube ID | 200.2 |
| Rubber Cutback Top/End | 229.0 / 229.0 |
| Weight | 817 kg |
| Number of Stages | 6.0 |
| Tube Material | 4140/4142 Seamless Alloy Steel |
| Rubber Options | NBR-HPW & NBR-HPO |

| NBR-HPW (mm) | | Fits (+ Compression / - Loose) | | | | |
|--------------|--------------------|--------------------------------|-------|--------|--------|---------------------|
| Size | Minor ² | 25 °C | 75 °C | 100 °C | 125 °C | 150 °C ³ |
| .5 US | | | | | | |
| STD | 120.88 | 0.52 | 1.83 | 2.48 | 3.13 | 3.78 |
| .5 OS | | | | | | |
| 1.0 OS | | | | | | |
| 1.5 OS | | | | | | |
| 2.0 OS | | | | | | |
| 2.5 OS | | | | | | |

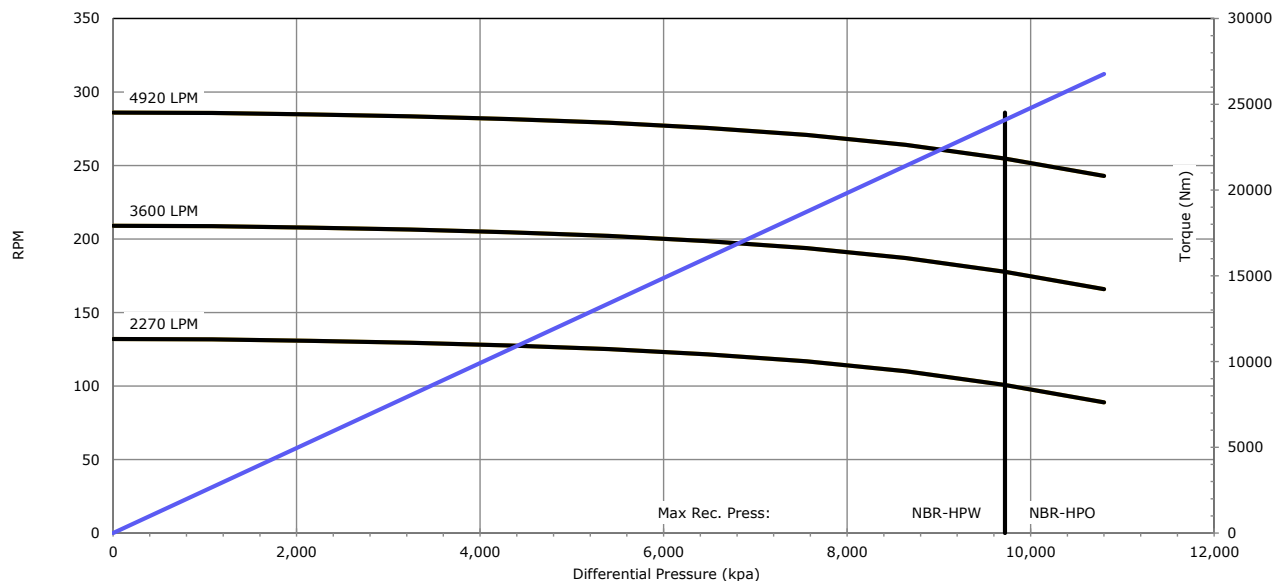
| NBR-HPO (mm) | | Fits (+ Compression / - Loose) | | | | |
|--------------|--------------------|--------------------------------|-------|--------|--------|---------------------|
| Size | Minor ² | 25 °C | 75 °C | 100 °C | 125 °C | 150 °C ³ |
| .5 US | | | | | | |
| STD | 120.88 | 0.52 | 1.83 | 2.48 | 3.13 | 3.78 |
| .5 OS | | | | | | |
| 1.0 OS | | | | | | |
| 1.5 OS | | | | | | |
| 2.0 OS | | | | | | |
| 2.5 OS | | | | | | |

| Performance Specifications | |
|----------------------------|-------------|
| Flow Range (lpm) | 2270 - 4920 |
| Speed Range (rpm) | 130 - 290 |
| Torque Slope (Nm/kpa) | 2.48 |
| Rotation (rev/Liter) | 0.0581 |
| Off Bottom Pressure (kpa) | 1370 |

| Performance Details | | NBR-HPW | NBR-HPO |
|------------------------|--|---------|---------|
| Max Diff Press (kpa) | | 9800 | 9800 |
| Stall Diff Press (kpa) | | 15300 | 15400 |
| Max Torque (Nm) | | 24100 | 24100 |
| Stall Torque (Nm) | | 38000 | 38000 |

■ (NBR-HPW/HPO)

■ Torque



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 25°C ³ BHCT Exceeding 160°C will void warranty for NBR-HPW/HPO.

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