

## POWER SECTION

**Model No: AT1125675.0**

Revised: 9/10/2020

Rotor Specifications	
	inches
Overall Length	202.00
Contour Length	195.00
Major Diameter	6.403
Eccentricity	0.428
Head diameter	5.500
Thread Form	4.00 API FH
Weight	1378 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	218.00
Tube OD	11.25
Tube ID	7.88
Rubber Cutback Top/End	8.00 / 8.00
Weight	1676 lbs
Number of Stages	5.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

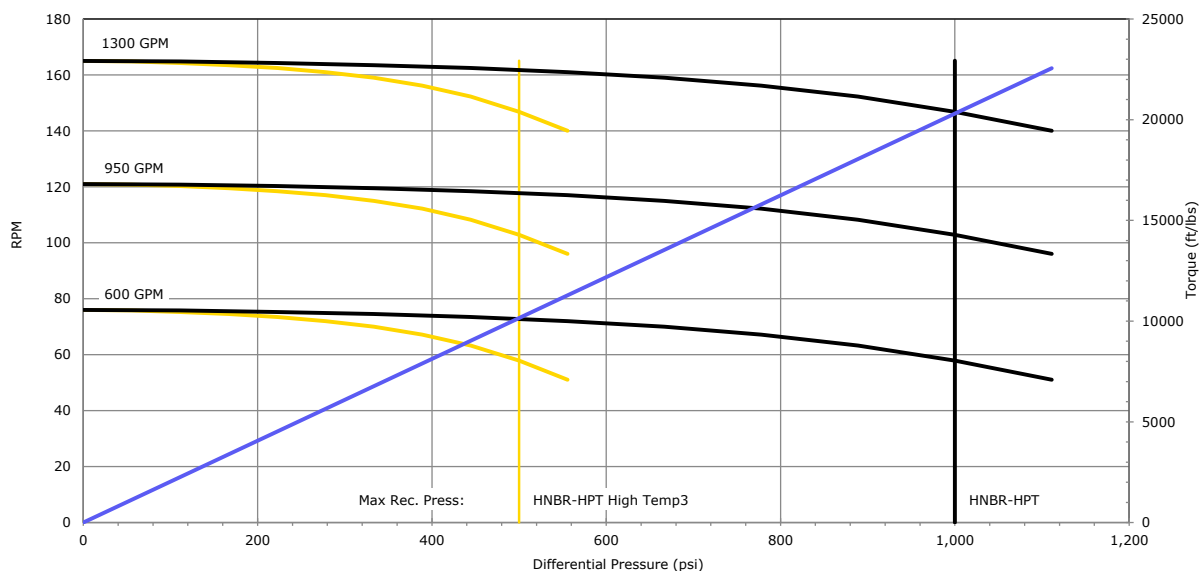
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	5.546	0.002	0.027	0.053	0.091	0.117
.5 OS						
1.0 OS	5.585	-0.038	-0.012	0.013	0.051	0.076
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	5.546	0.002	0.027	0.053	0.091	0.117
.5 OS						
1.0 OS	5.585	-0.038	-0.012	0.013	0.051	0.076
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	600 - 1300
Speed Range (rpm)	80 - 170
Torque Slope (ft-lb/psi)	20.30
Rotation (rev/gal)	0.127
Off Bottom Pressure (psi)	140

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (psi)	500	1000
Stall Diff Press (psi)	750	1580
Max Torque (ft-lb)	10150	20300
Stall Torque (ft-lb)	15230	31980

■ (HNBR-HPT High Temp<sup>3</sup>) ■ (HNBR-HPT) ■ Torque



<sup>1</sup> Coating options of chrome or tungsten carbide are available. <sup>2</sup> Vector Gauge Readings at Room Temp 75°F. <sup>3</sup> HPT High Temp parameters are recommended when BHCT exceeds 300°F. BHCT exceeding 430°F will void warranty. It is recommended to run stator for no more than 15 hours at BHCT above 375°F. 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](http://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: AT1125675.0**

Revised: 9/10/2020

Rotor Specifications	
	mm
Overall Length	5130.8
Contour Length	4953.0
Major Diameter	162.64
Eccentricity	10.86
Head diameter	139.70
Thread Form	4.00 API FH
Weight	625 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	5537.2
Tube OD	285.8
Tube ID	200.2
Rubber Cutback Top/End	203.0 / 203.0
Weight	760 kg
Number of Stages	5.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

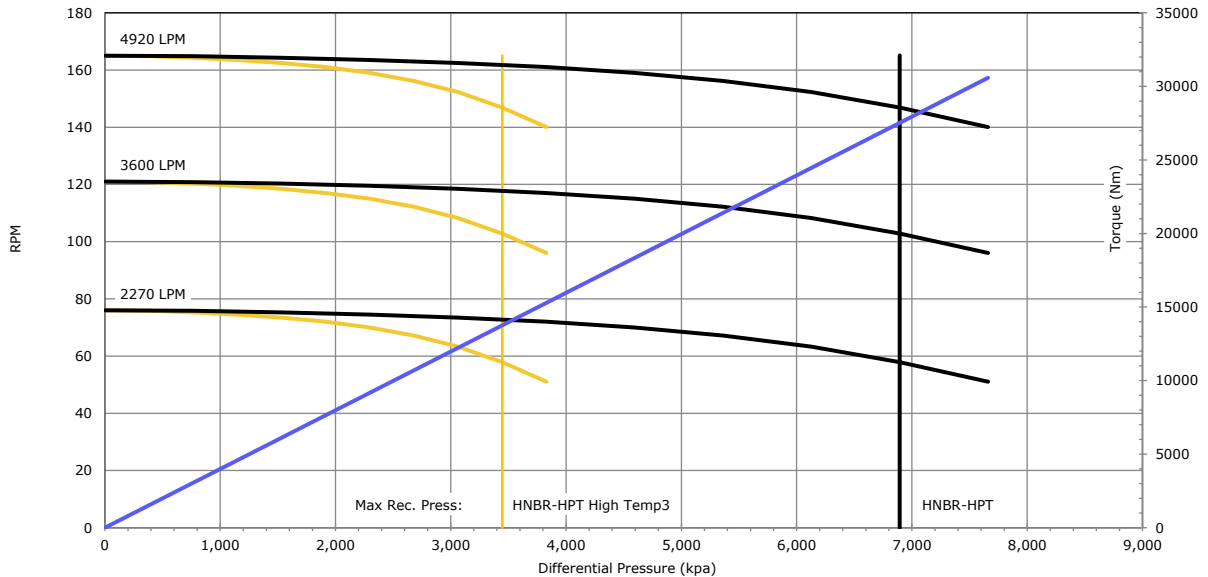
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	140.87	0.04	1.21	1.80	2.39	2.97
.5 OS						
1.0 OS	141.86	-0.95	0.20	0.78	1.36	1.93
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	140.87	0.04	1.21	1.80	2.39	2.97
.5 OS						
1.0 OS	141.86	-0.95	0.20	0.78	1.36	1.93
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	2270 - 4920
Speed Range (rpm)	80 - 170
Torque Slope (Nm/kpa)	3.99
Rotation (rev/Liter)	0.0335
Off Bottom Pressure (kpa)	990

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (kpa)	3500	6900
Stall Diff Press (kpa)	5200	10900
Max Torque (Nm)	13800	27600
Stall Torque (Nm)	20700	43400

■ (HNBR-HPT High Temp<sup>3</sup>) 
 ■ (HNBR-HPT) 
 ■ Torque



<sup>1</sup> Coating options of chrome or tungsten carbide are available. <sup>2</sup> Vector Gauge Readings at Room Temp 25°C. <sup>3</sup> HPT High Temp parameters are recommended when BHCT exceeds 150°C. BHCT exceeding 220°C will void warranty. It is recommended to run stator for no more than 15 hours at BHCT above 190°C.

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](http://www.AbacoDrilling.com) for the latest specification revisions.

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