

## POWER SECTION

**Model No: AT962676.0**

Revised: 9/10/2020

Rotor Specifications	
	inches
Overall Length	240.00
Contour Length	233.00
Major Diameter	6.403
Eccentricity	0.428
Head diameter	5.500
Thread Form	4.00 API FH
Weight	1642 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	250.00
Tube OD	9.63
Tube ID	7.88
Rubber Cutback Top/End	9.00 / 9.00
Weight	1924 lbs
Number of Stages	6.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

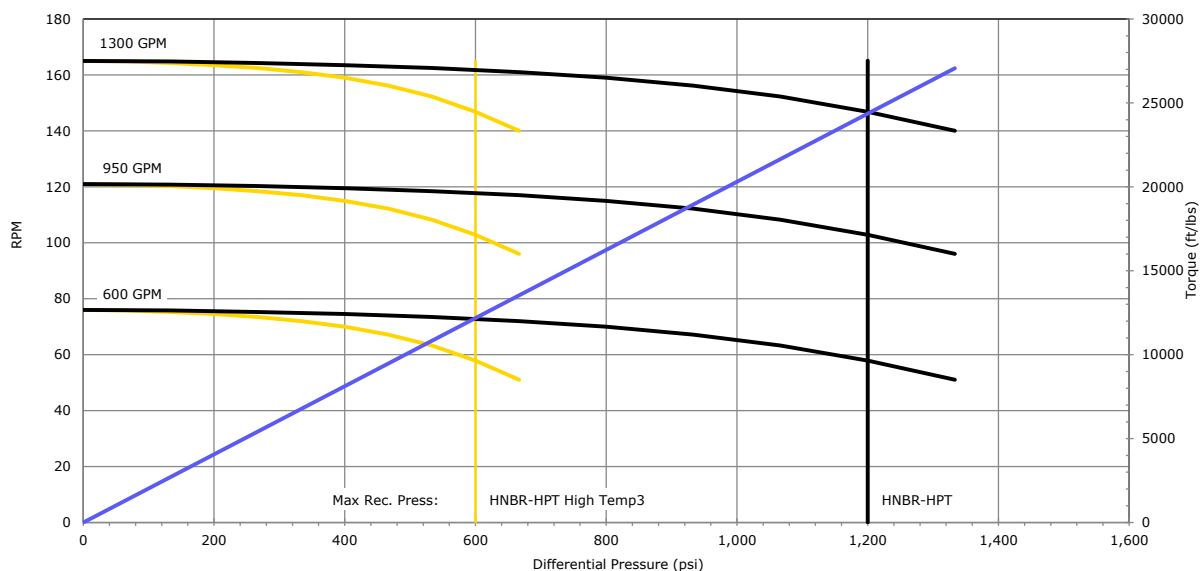
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	5.546	0.002	0.027	0.053	0.091	0.117
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

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						
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)	150

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (psi)	600	1200
Stall Diff Press (psi)	900	1890
Max Torque (ft-lb)	12180	24360
Stall Torque (ft-lb)	18270	38370

■ (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: AT962676.0**

Revised: 9/10/2020

Rotor Specifications	
	mm
Overall Length	6096.0
Contour Length	5918.2
Major Diameter	162.64
Eccentricity	10.86
Head diameter	139.70
Thread Form	4.00 API FH
Weight	745 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	6350.0
Tube OD	244.5
Tube ID	200.2
Rubber Cutback Top/End	229.0 / 229.0
Weight	873 kg
Number of Stages	6.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

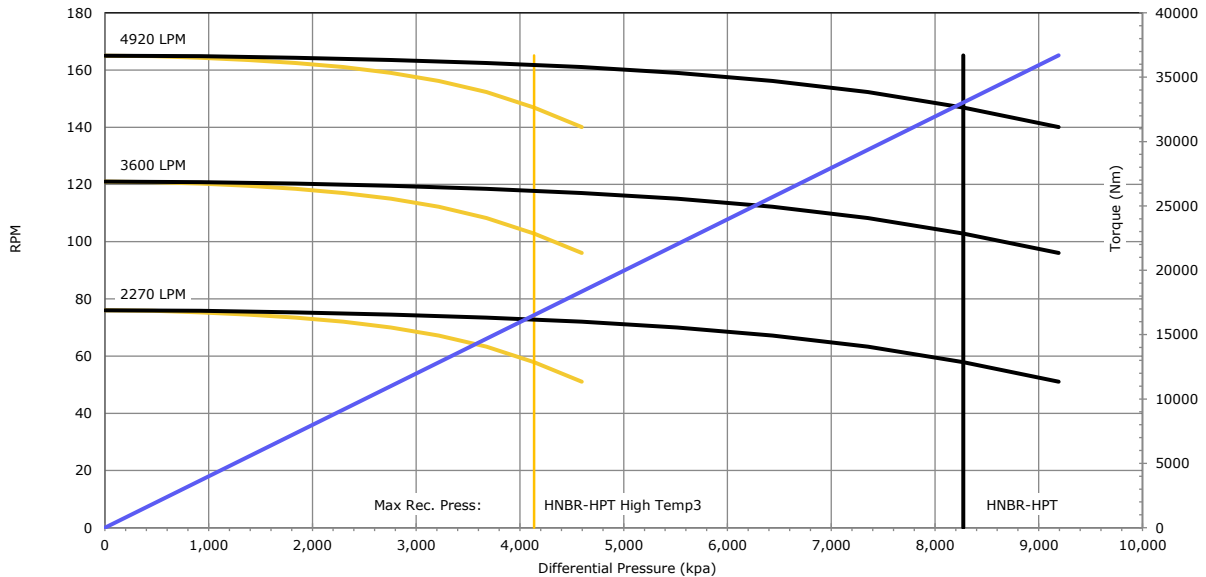
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	140.87	0.04	1.21	1.80	2.39	2.97
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

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						
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)	1060

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (kpa)	4200	8300
Stall Diff Press (kpa)	6200	13100
Max Torque (Nm)	16600	33100
Stall Torque (Nm)	24800	52100

■ (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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