

**POWER SECTION**

**Model No: AT287452.9 HT**

Revised: 8/30/2021

Rotor Specifications	
	inches
Overall Length	103.63
Contour Length	99.63
Major Diameter	1.863
Eccentricity	
Head diameter	1.800
Thread Form	N/A
Weight	54 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	105.63
Tube OD	2.88
Tube ID	2.38
Rubber Cutback Top/End	6.00 / 6.00
Weight	70 lbs
Number of Stages	2.9
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

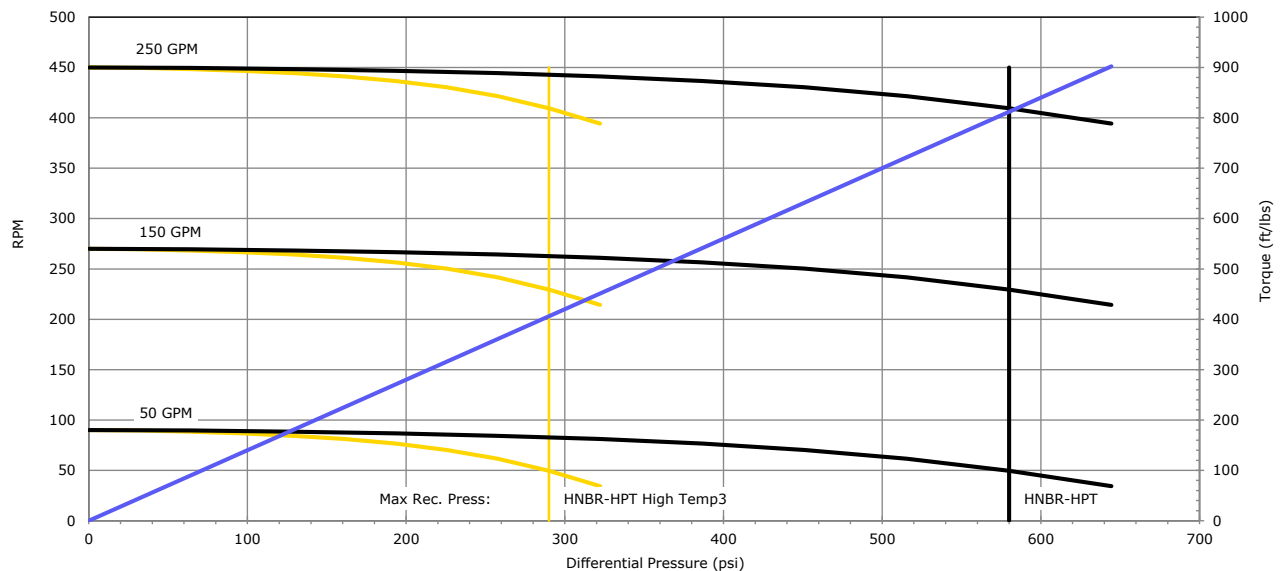
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	150 °F	250 °F	350 °F	430 °F <sup>3</sup>
.5 US						
STD	1.503	-0.013	-0.004	0.008	0.019	0.028
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	150 °F	250 °F	350 °F	430 °F <sup>3</sup>
.5 US						
STD	1.503	-0.013	-0.004	0.008	0.019	0.028
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	50 - 250
Speed Range (rpm)	90 - 450
Torque Slope (ft-lb/psi)	1.40
Rotation (rev/gal)	1.800
Off Bottom Pressure (psi)	70

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (psi)	290	580
Stall Diff Press (psi)	440	920
Max Torque (ft-lb)	410	820
Stall Torque (ft-lb)	610	1280

■ (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: AT287452.9 HT**

Revised: 8/30/2021

Rotor Specifications	
	mm
Overall Length	2632.2
Contour Length	2530.5
Major Diameter	47.32
Eccentricity	
Head diameter	45.72
Thread Form	N/A
Weight	24 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	2682.9
Tube OD	73.0
Tube ID	60.3
Rubber Cutback Top/End	152.0 / 152.0
Weight	32 kg
Number of Stages	2.9
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

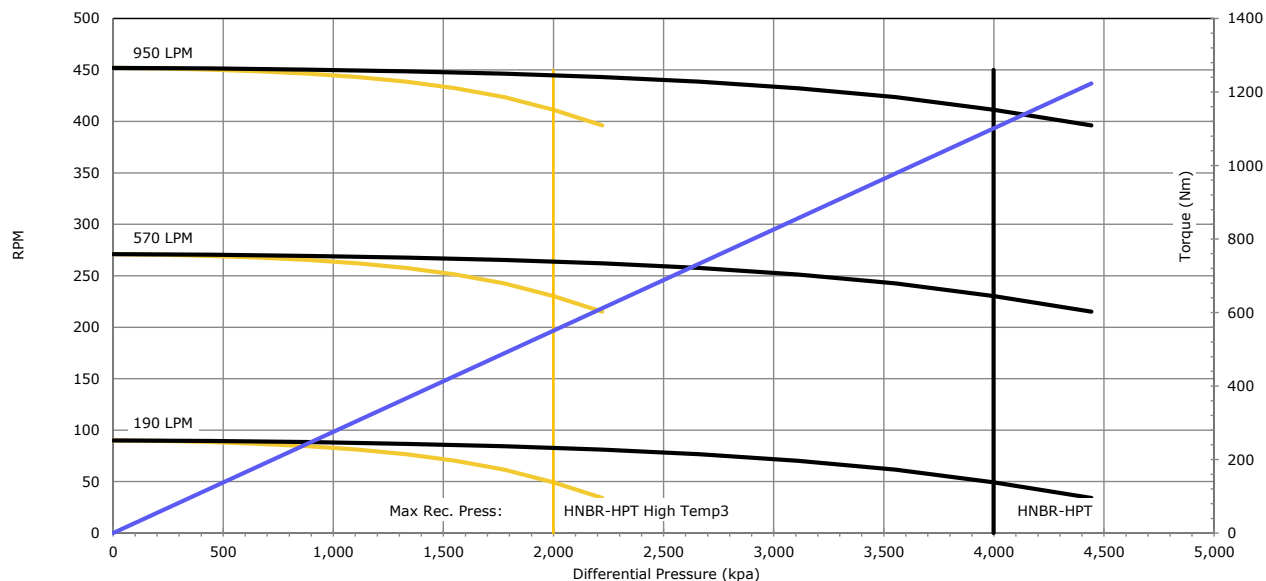
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	65 °C	120 °C	175 °C	220 °C <sup>4</sup>
.5 US						
STD	38.18	-0.32	-0.11	0.18	0.47	0.71
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	65 °C	120 °C	175 °C	220 °C <sup>4</sup>
.5 US						
STD	38.18	-0.32	-0.11	0.18	0.47	0.71
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	190 - 950
Speed Range (rpm)	90 - 450
Torque Slope (Nm/kpa)	0.28
Rotation (rev/Liter)	0.4755
Off Bottom Pressure (kpa)	500

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (kpa)	2000	4000
Stall Diff Press (kpa)	3000	6300
Max Torque (Nm)	600	1200
Stall Torque (Nm)	900	1800

■ (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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