

## POWER SECTION

**Model No: AT337563.2**

Revised: 9/14/2020

Rotor Specifications	
	inches
Overall Length	90.00
Contour Length	84.00
Major Diameter	2.228
Eccentricity	0.161
Head diameter	2.250
Thread Form	N/A
Weight	74 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	94.00
Tube OD	3.38
Tube ID	2.75
Rubber Cutback Top/End	7.00 / 7.00
Weight	90 lbs
Number of Stages	3.2
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

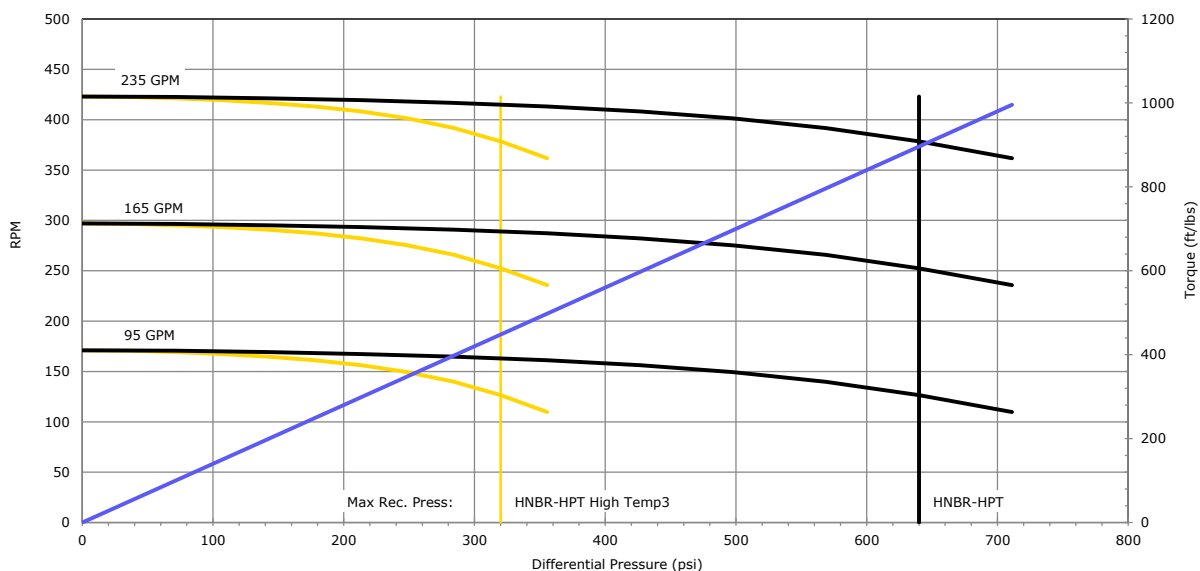
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	1.912	-0.006	0.000	0.006	0.015	0.021
.5 OS						
1.0 OS	1.919	-0.013	-0.007	-0.001	0.008	0.014
1.5 OS						
2.0 OS						
2.5 OS						

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	1.912	-0.006	0.000	0.006	0.015	0.021
.5 OS						
1.0 OS	1.919	-0.013	-0.007	-0.001	0.008	0.014
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	95 - 235
Speed Range (rpm)	170 - 420
Torque Slope (ft-lb/psi)	1.40
Rotation (rev/gal)	1.800
Off Bottom Pressure (psi)	80

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (psi)	320	640
Stall Diff Press (psi)	480	1010
Max Torque (ft-lb)	450	900
Stall Torque (ft-lb)	680	1420

■ (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: AT337563.2**

Revised: 9/14/2020

Rotor Specifications	
	mm
Overall Length	2286.0
Contour Length	2133.6
Major Diameter	56.59
Eccentricity	4.09
Head diameter	57.15
Thread Form	N/A
Weight	34 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	2387.6
Tube OD	85.7
Tube ID	69.9
Rubber Cutback Top/End	178.0 / 178.0
Weight	41 kg
Number of Stages	3.2
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

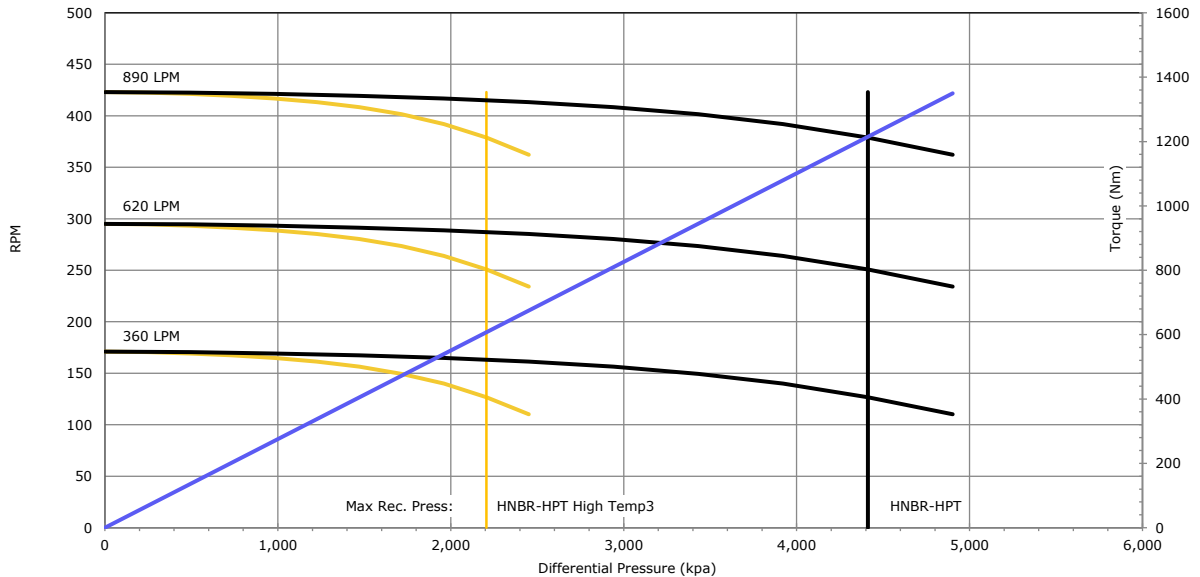
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	48.56	-0.15	0.12	0.26	0.40	0.53
.5 OS						
1.0 OS	48.74	-0.33	-0.06	0.08	0.21	0.35
1.5 OS						
2.0 OS						
2.5 OS						

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	48.56	-0.15	0.12	0.26	0.40	0.53
.5 OS						
1.0 OS	48.74	-0.33	-0.06	0.08	0.21	0.35
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	360 - 890
Speed Range (rpm)	170 - 420
Torque Slope (Nm/kpa)	0.28
Rotation (rev/Liter)	0.4755
Off Bottom Pressure (kpa)	570

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (kpa)	2300	4500
Stall Diff Press (kpa)	3300	7000
Max Torque (Nm)	700	1300
Stall Torque (Nm)	1000	2000

■ (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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