

## POWER SECTION

**Model No: AT625783.0 SLOW**

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	190.00
Contour Length	183.50
Major Diameter	4.12
Eccentricity	0.230
Head diameter	4.000
Thread Form	2.375 API REG
Weight	547 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	204.00
Tube OD	6.25
Tube ID	5.00
Rubber Cutback Top/End	8.00 / 8.00
Weight	693 lbs
Number of Stages	3.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

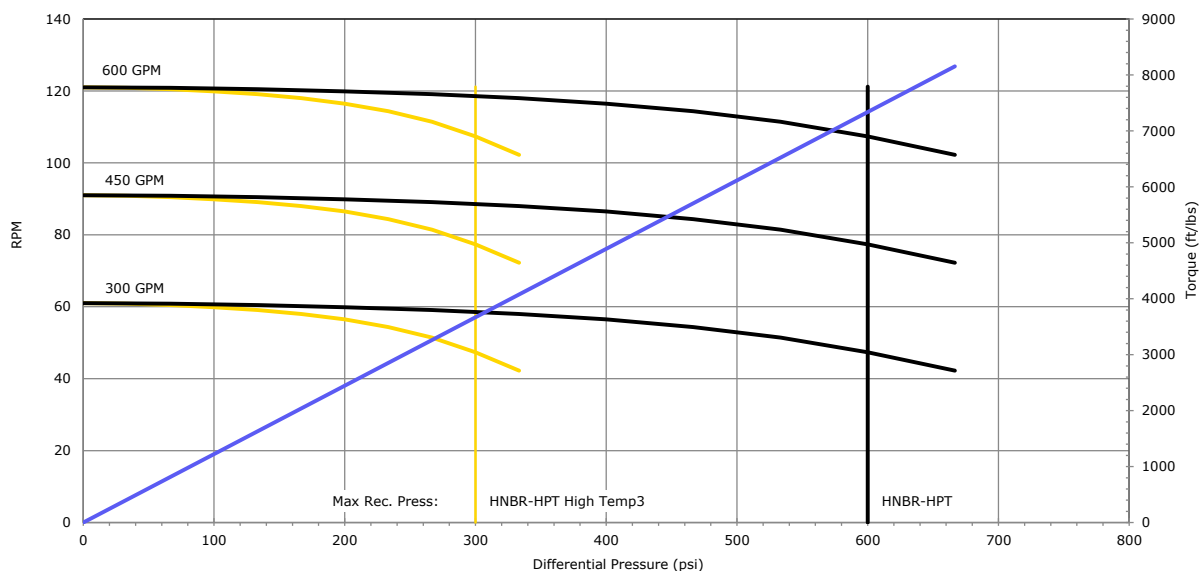
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	3.666	-0.006	0.007	0.020	0.040	0.053
.5 OS						
1.0 OS	3.691	-0.031	-0.018	-0.005	0.014	0.027
1.5 OS						
2.0 OS						
2.5 OS						

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	3.666	-0.006	0.007	0.020	0.040	0.053
.5 OS						
1.0 OS	3.691	-0.031	-0.018	-0.005	0.014	0.027
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	300 - 600
Speed Range (rpm)	60 - 120
Torque Slope (ft-lb/psi)	12.23
Rotation (rev/gal)	0.202
Off Bottom Pressure (psi)	70

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (psi)	300	600
Stall Diff Press (psi)	450	950
Max Torque (ft-lb)	3670	7340
Stall Torque (ft-lb)	5510	11560

■ (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: AT625783.0 SLOW**

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	4826.0
Contour Length	4660.9
Major Diameter	104.65
Eccentricity	5.84
Head diameter	101.60
Thread Form	2.375 API REG
Weight	248 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	5181.6
Tube OD	158.8
Tube ID	127.0
Rubber Cutback Top/End	203.0 / 203.0
Weight	314 kg
Number of Stages	3.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

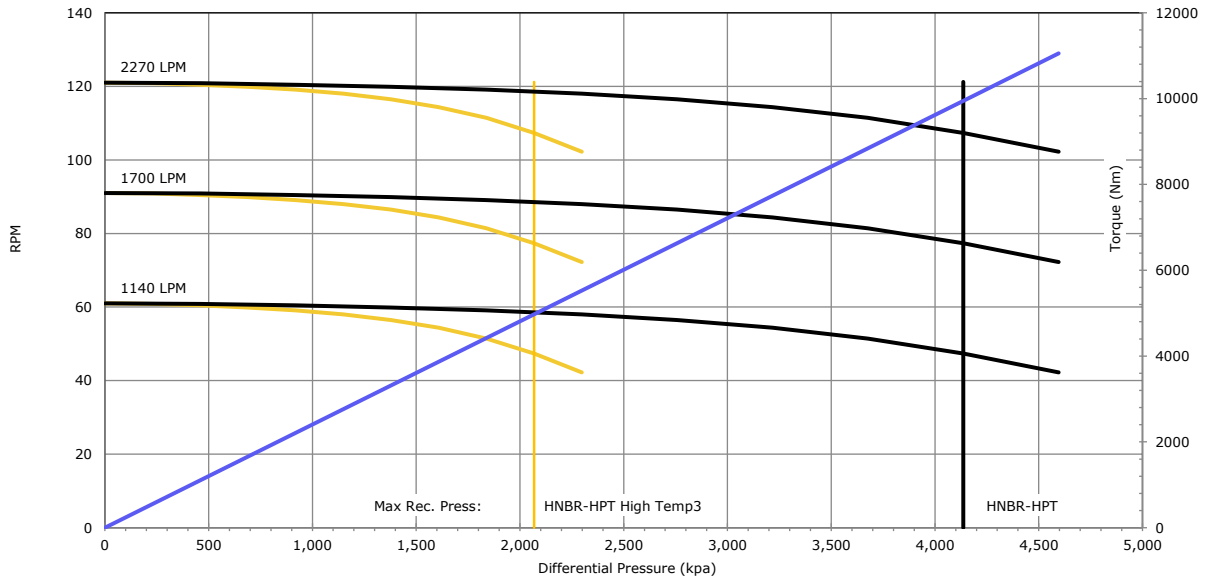
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	93.12	-0.15	0.45	0.75	1.06	1.36
.5 OS						
1.0 OS	93.75	-0.79	-0.19	0.10	0.40	0.69
1.5 OS						
2.0 OS						
2.5 OS						

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	93.12	-0.15	0.45	0.75	1.06	1.36
.5 OS						
1.0 OS	93.75	-0.79	-0.19	0.10	0.40	0.69
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	1140 - 2270
Speed Range (rpm)	60 - 120
Torque Slope (Nm/kpa)	2.41
Rotation (rev/Liter)	0.0534
Off Bottom Pressure (kpa)	510

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (kpa)	2100	4200
Stall Diff Press (kpa)	3100	6600
Max Torque (Nm)	5000	10000
Stall Torque (Nm)	7500	15700

■ (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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