

## POWER SECTION

**Model No: AT1125675.5**

Revised: 9/10/2020

Rotor Specifications	
	inches
Overall Length	240.00
Contour Length	230.00
Major Diameter	7.683
Eccentricity	0.487
Head diameter	6.500
Thread Form	2.125-6 SA
Weight	2260 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	250.00
Tube OD	11.25
Tube ID	9.25
Rubber Cutback Top/End	10.50 / 10.50
Weight	2571 lbs
Number of Stages	5.5
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

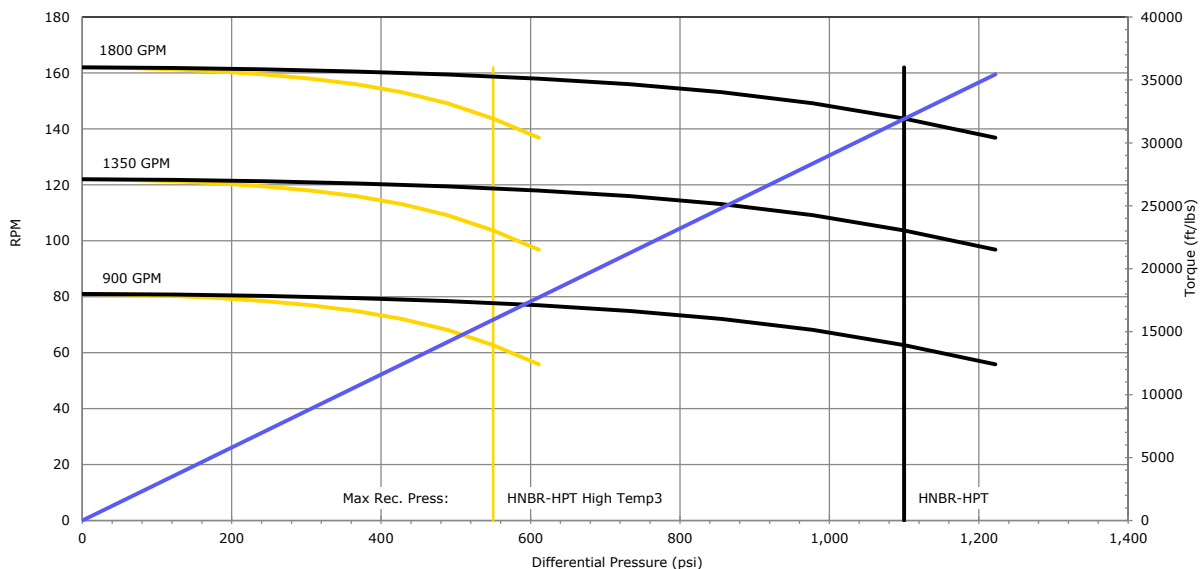
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	6.701	0.008	0.035	0.061	0.101	0.128
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

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	6.701	0.008	0.035	0.061	0.101	0.128
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	900 - 1800
Speed Range (rpm)	80 - 160
Torque Slope (ft-lb/psi)	29.00
Rotation (rev/gal)	0.090
Off Bottom Pressure (psi)	180

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (psi)	550	1100
Stall Diff Press (psi)	830	1740
Max Torque (ft-lb)	15950	31900
Stall Torque (ft-lb)	23930	50250

■ (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: AT1125675.5**

Revised: 9/10/2020

Rotor Specifications	
	mm
Overall Length	6096.0
Contour Length	5842.0
Major Diameter	195.15
Eccentricity	12.37
Head diameter	165.10
Thread Form	2.125-6 SA
Weight	1025 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	6350.0
Tube OD	285.8
Tube ID	235.0
Rubber Cutback Top/End	267.0 / 267.0
Weight	1166 kg
Number of Stages	5.5
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

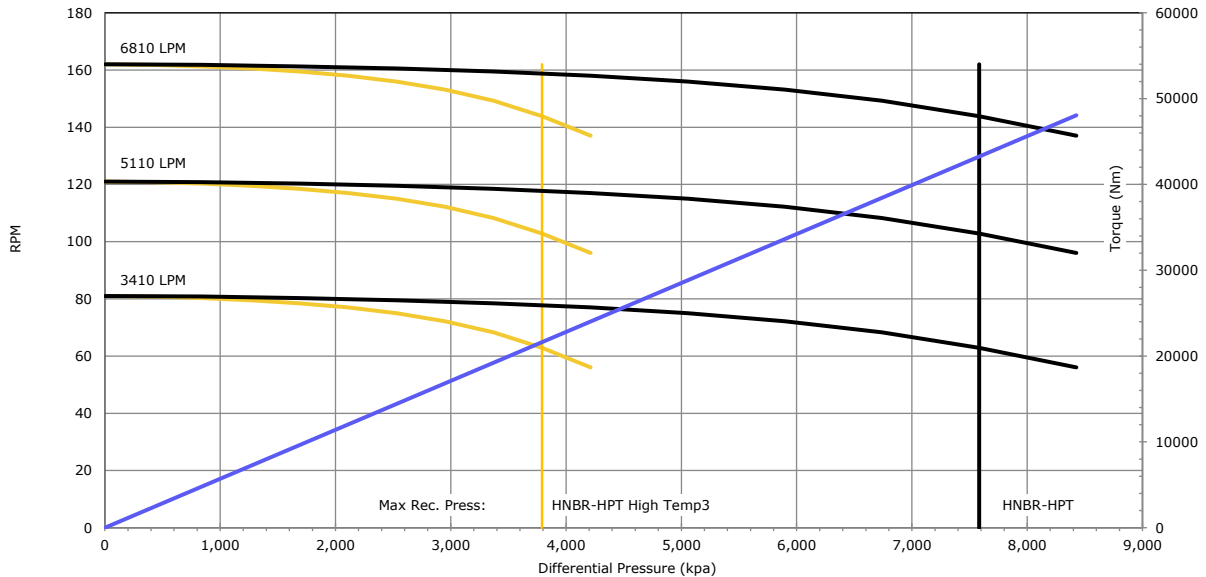
HNBR-HPT High Temp <sup>3</sup> (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	170.21	0.20	1.42	2.03	2.64	3.25
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

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	170.21	0.20	1.42	2.03	2.64	3.25
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	3410 - 6810
Speed Range (rpm)	80 - 160
Torque Slope (Nm/kpa)	5.70
Rotation (rev/Liter)	0.0238
Off Bottom Pressure (kpa)	1230

Performance Details		
	HNBR-HPT High Temp <sup>3</sup>	HNBR-HPT
Max Diff Press (kpa)	3800	7600
Stall Diff Press (kpa)	5700	12000
Max Torque (Nm)	21700	43300
Stall Torque (Nm)	32500	68200

■ (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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