

POWER SECTION

Model No: AT287563.5

Revised: 9/14/2020

Rotor Specifications	
	inches
Overall Length	91.00
Contour Length	86.50
Major Diameter	1.675
Eccentricity	0.118
Head diameter	1.800
Thread Form	N/A
Weight	44 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	98.60
Tube OD	2.88
Tube ID	2.38
Rubber Cutback Top/End	7.00 / 7.00
Weight	67 lbs
Number of Stages	3.5
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

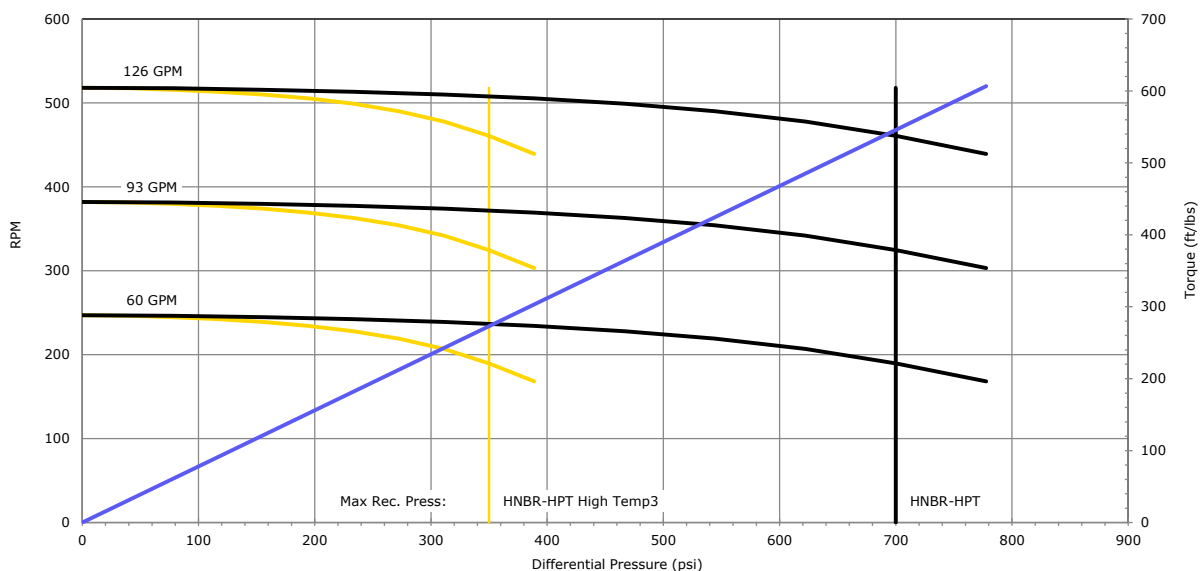
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	1.442	-0.003	0.003	0.008	0.017	0.022
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	1.442	-0.003	0.003	0.008	0.017	0.022
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	60 - 126
Speed Range (rpm)	250 - 520
Torque Slope (ft-lb/psi)	0.78
Rotation (rev/gal)	4.111
Off Bottom Pressure (psi)	70

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	350	700
Stall Diff Press (psi)	530	1110
Max Torque (ft-lb)	280	550
Stall Torque (ft-lb)	410	860

■ (HNBR-HPT High Temp³) ■ (HNBR-HPT) ■ Torque



¹ Coating options of chrome or tungsten carbide are available. ² Vector Gauge Readings at Room Temp 75°F. ³ 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 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: AT287563.5

Revised: 9/14/2020

Rotor Specifications	
	mm
Overall Length	2311.4
Contour Length	2197.1
Major Diameter	42.55
Eccentricity	3.00
Head diameter	45.72
Thread Form	N/A
Weight	20 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	2504.4
Tube OD	73.0
Tube ID	60.3
Rubber Cutback Top/End	178.0 / 178.0
Weight	30 kg
Number of Stages	3.5
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

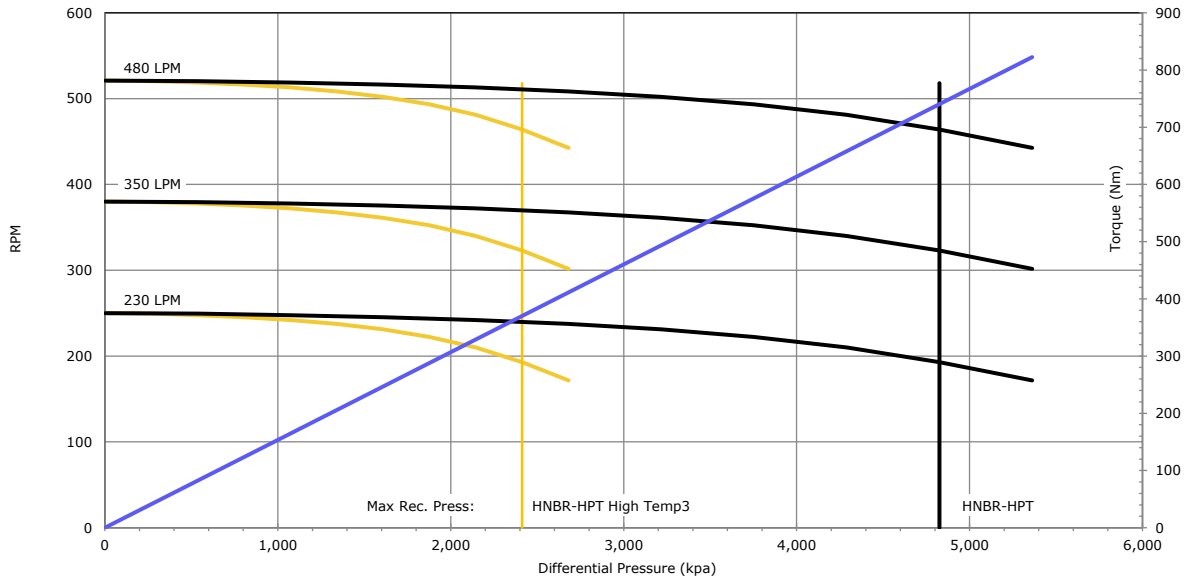
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	36.63	-0.08	0.18	0.31	0.44	0.57
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	36.63	-0.08	0.18	0.31	0.44	0.57
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	230 - 480
Speed Range (rpm)	250 - 520
Torque Slope (Nm/kpa)	0.15
Rotation (rev/Liter)	1.0860
Off Bottom Pressure (kpa)	500

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	2500	4900
Stall Diff Press (kpa)	3600	7700
Max Torque (Nm)	400	800
Stall Torque (Nm)	600	1200

■ (HNBR-HPT High Temp³) ■ (HNBR-HPT) ■ Torque



¹ Coating options of chrome or tungsten carbide are available. ² Vector Gauge Readings at Room Temp 25°C. ³ 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 for the latest specification revisions.

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