

POWER SECTION

Model No: AT962783.9

Revised: 9/10/2020

Rotor Specifications	
	inches
Overall Length	290.00
Contour Length	281.00
Major Diameter	6.515
Eccentricity	0.368
Head diameter	5.500
Thread Form	4.00 API FH
Weight	1905 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	300.00
Tube OD	9.63
Tube ID	7.88
Rubber Cutback Top/End	10.00 / 10.00
Weight	2294 lbs
Number of Stages	3.9
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

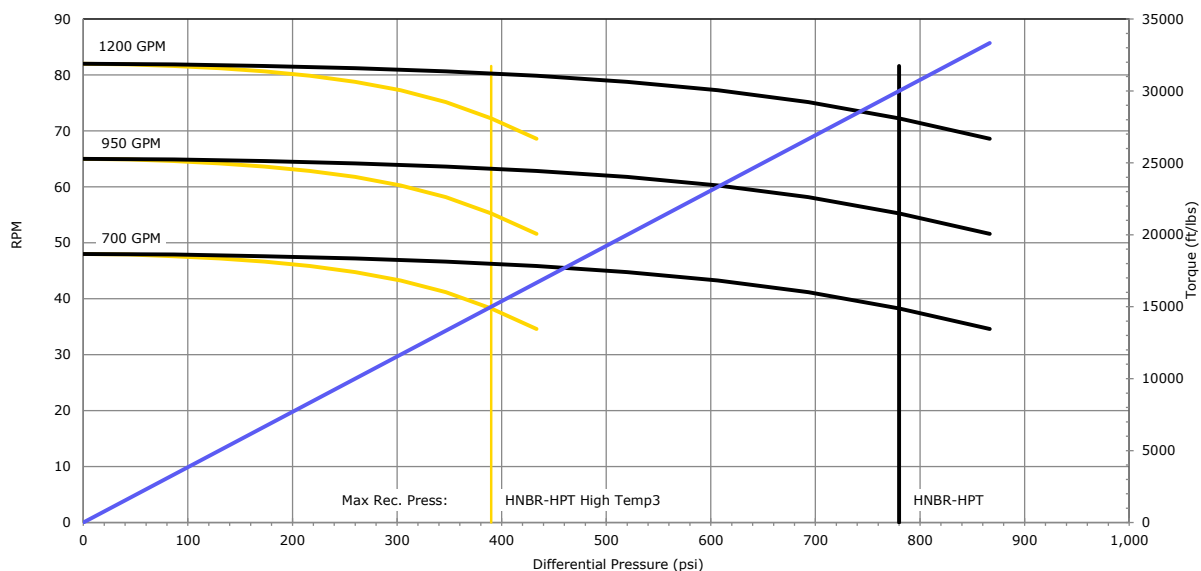
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	5.786	-0.007	0.015	0.037	0.070	0.091
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	5.786	-0.007	0.015	0.037	0.070	0.091
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	700 - 1200
Speed Range (rpm)	50 - 80
Torque Slope (ft-lb/psi)	38.46
Rotation (rev/gal)	0.068
Off Bottom Pressure (psi)	100

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	390	780
Stall Diff Press (psi)	590	1230
Max Torque (ft-lb)	15000	30000
Stall Torque (ft-lb)	22500	47250

■ (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: AT962783.9

Revised: 9/10/2020

Rotor Specifications	
	mm
Overall Length	7366.0
Contour Length	7137.4
Major Diameter	165.48
Eccentricity	9.35
Head diameter	139.70
Thread Form	4.00 API FH
Weight	864 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	7620.0
Tube OD	244.5
Tube ID	200.2
Rubber Cutback Top/End	254.0 / 254.0
Weight	1040 kg
Number of Stages	3.9
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

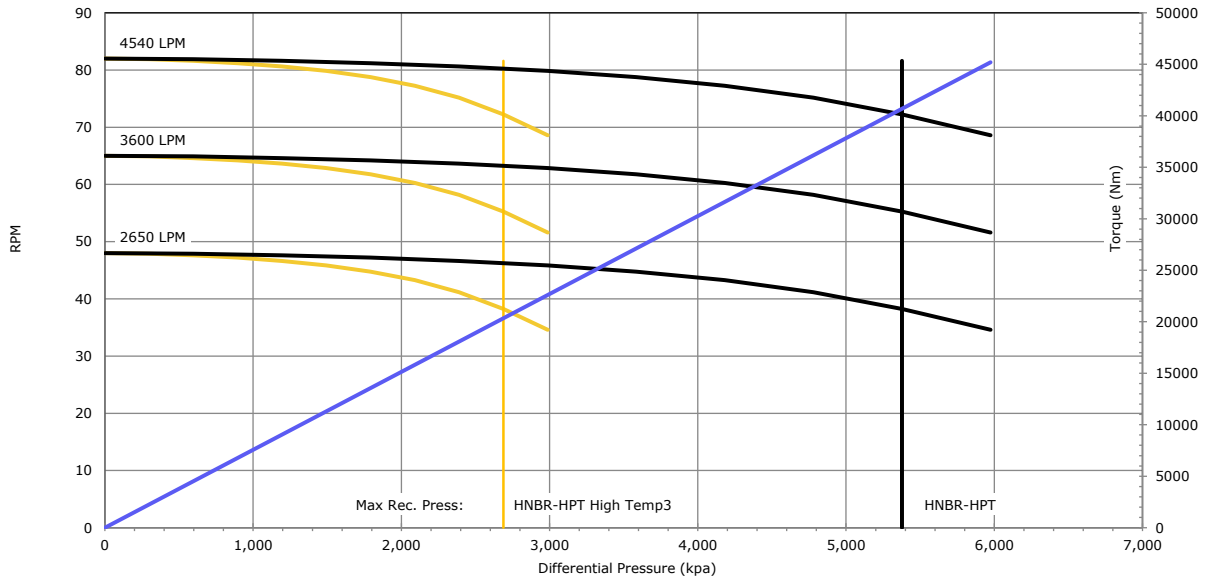
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	146.96	-0.18	0.82	1.32	1.82	2.32
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	146.96	-0.18	0.82	1.32	1.82	2.32
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	2650 - 4540
Speed Range (rpm)	50 - 80
Torque Slope (Nm/kpa)	7.56
Rotation (rev/Liter)	0.0180
Off Bottom Pressure (kpa)	680

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	2700	5400
Stall Diff Press (kpa)	4000	8500
Max Torque (Nm)	20400	40700
Stall Torque (Nm)	30600	64100

■ (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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