

POWER SECTION

Model No: AT675457.0

Revised: 2/21/2023

Rotor Specifications	
	inches
Overall Length	202.50
Contour Length	195.50
Major Diameter	4.22
Eccentricity	0.355
Head diameter	4.000
Thread Form	2.875 API REG
Weight	576 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	210.00
Tube OD	6.75
Tube ID	5.50
Rubber Cutback Top/End	7.50 / 7.50
Weight	826 lbs
Number of Stages	7.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

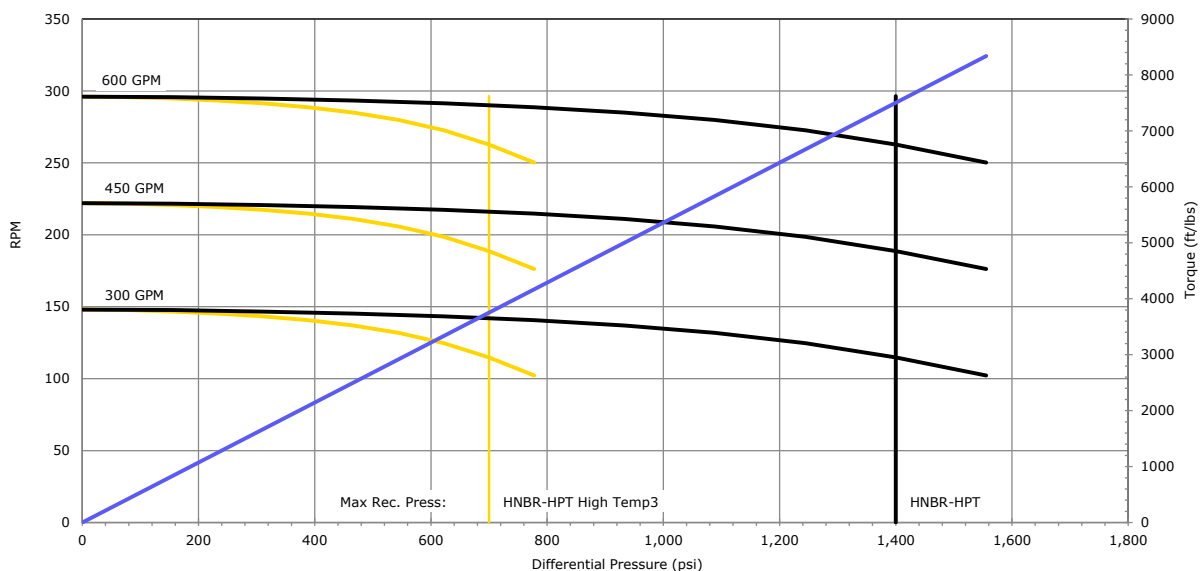
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US	3.490	0.020	0.040	0.060	0.090	0.110
STD	3.509	0.001	0.021	0.040	0.070	0.090
.5 OS	3.519	-0.009	0.011	0.030	0.060	0.079
1.0 OS	3.535	-0.025	-0.006	0.014	0.043	0.063
1.5 OS	3.550	-0.040	-0.021	-0.001	0.028	0.047
2.0 OS	3.565	-0.055	-0.036	-0.017	0.012	0.031
2.5 OS	3.593	-0.083	-0.064	-0.045	-0.017	0.002

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
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.5 OS	3.519	-0.009	0.011	0.030	0.060	0.079
1.0 OS	3.535	-0.025	-0.006	0.014	0.043	0.063
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2.0 OS	3.565	-0.055	-0.036	-0.017	0.012	0.031
2.5 OS	3.593	-0.083	-0.064	-0.045	-0.017	0.002

Performance Specifications	
Flow Range (gpm)	300 - 700
Speed Range (rpm)	150 - 300
Torque Slope (ft-lb/psi)	5.36
Rotation (rev/gal)	0.494
Off Bottom Pressure (psi)	150

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	700	1400
Stall Diff Press (psi)	1050	2210
Max Torque (ft-lb)	3760	7510
Stall Torque (ft-lb)	5630	11820

■ (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: AT675457.0

Revised: 2/21/2023

Rotor Specifications	
	mm
Overall Length	5143.5
Contour Length	4965.7
Major Diameter	107.19
Eccentricity	9.02
Head diameter	101.60
Thread Form	2.875 API REG
Weight	261 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	5334.0
Tube OD	171.5
Tube ID	139.7
Rubber Cutback Top/End	191.0 / 191.0
Weight	375 kg
Number of Stages	7.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

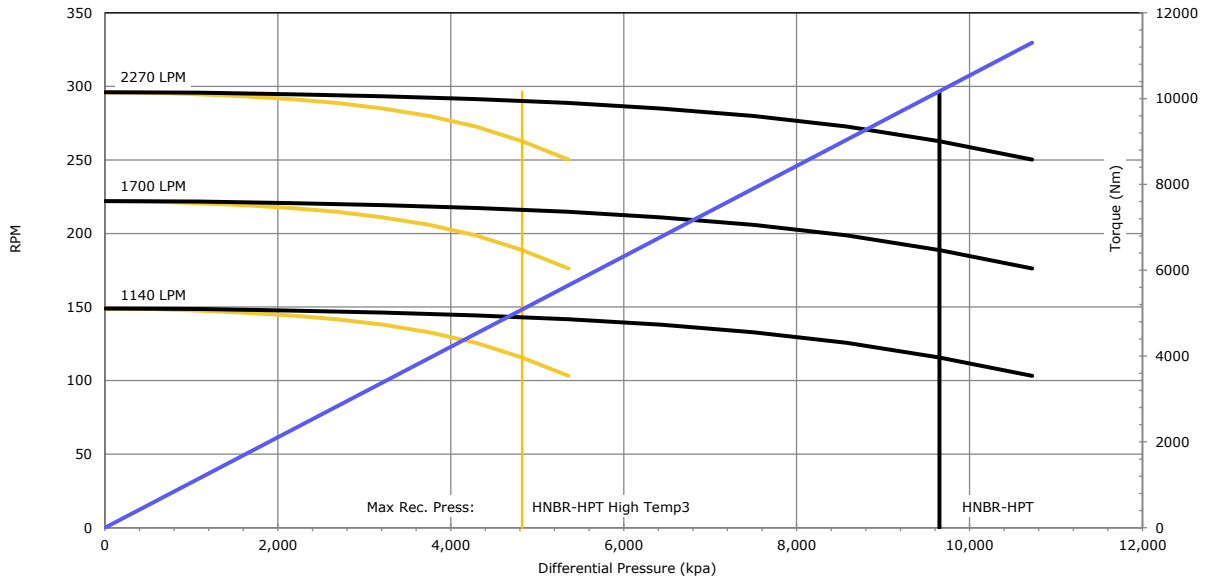
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US	88.65	0.51	1.42	1.87	2.33	2.78
STD	89.13	0.03	0.93	1.38	1.83	2.28
.5 OS	89.38	-0.23	0.67	1.12	1.56	2.01
1.0 OS	89.79	-0.63	0.25	0.70	1.14	1.59
1.5 OS	90.17	-1.02	-0.13	0.31	0.75	1.19
2.0 OS	90.55	-1.40	-0.52	-0.08	0.35	0.79
2.5 OS	91.26	-2.11	-1.25	-0.81	-0.38	0.05

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US	88.65	0.51	1.42	1.87	2.33	2.78
STD	89.13	0.03	0.93	1.38	1.83	2.28
.5 OS	89.38	-0.23	0.67	1.12	1.56	2.01
1.0 OS	89.79	-0.63	0.25	0.70	1.14	1.59
1.5 OS	90.17	-1.02	-0.13	0.31	0.75	1.19
2.0 OS	90.55	-1.40	-0.52	-0.08	0.35	0.79
2.5 OS	91.26	-2.11	-1.25	-0.81	-0.38	0.05

Performance Specifications	
Flow Range (lpm)	1140 - 2649
Speed Range (rpm)	150 - 300
Torque Slope (Nm/kpa)	1.05
Rotation (rev/Liter)	0.1305
Off Bottom Pressure (kpa)	1040

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	4900	9700
Stall Diff Press (kpa)	7200	15300
Max Torque (Nm)	5100	10200
Stall Torque (Nm)	7700	16100

■ (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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