

POWER SECTION

Model No: AT675565.4

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	203.00
Contour Length	196.00
Major Diameter	4.158
Eccentricity	0.297
Head diameter	4.000
Thread Form	2.875 API REG
Weight	601 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	212.00
Tube OD	6.75
Tube ID	5.31
Rubber Cutback Top/End	8.00 / 8.00
Weight	897 lbs
Number of Stages	5.4
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

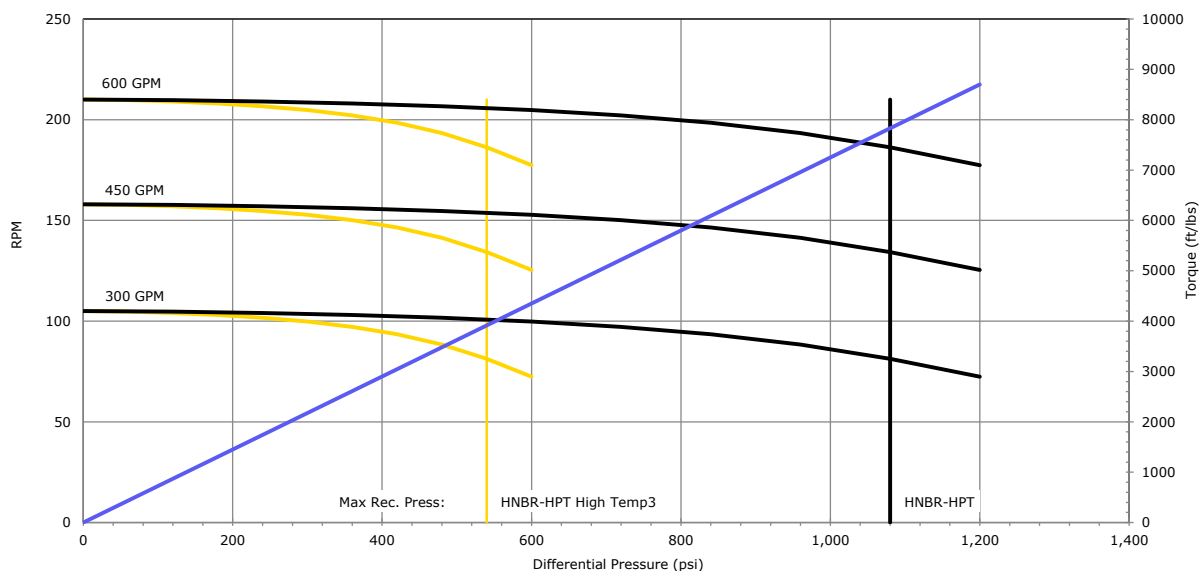
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	3.570	-0.006	0.014	0.034	0.064	0.084
.5 OS	3.588	-0.024	-0.004	0.016	0.045	0.065
1.0 OS	3.595	-0.031	-0.011	0.009	0.038	0.058
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
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2.5 OS						

Performance Specifications	
Flow Range (gpm)	300 - 600
Speed Range (rpm)	110 - 210
Torque Slope (ft-lb/psi)	7.25
Rotation (rev/gal)	0.350
Off Bottom Pressure (psi)	120

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	540	1080
Stall Diff Press (psi)	810	1710
Max Torque (ft-lb)	3920	7830
Stall Torque (ft-lb)	5880	12340

■ (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: AT675565.4

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	5156.2
Contour Length	4978.4
Major Diameter	105.61
Eccentricity	7.54
Head diameter	101.60
Thread Form	2.875 API REG
Weight	273 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	5384.8
Tube OD	171.5
Tube ID	134.9
Rubber Cutback Top/End	203.0 / 203.0
Weight	407 kg
Number of Stages	5.4
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

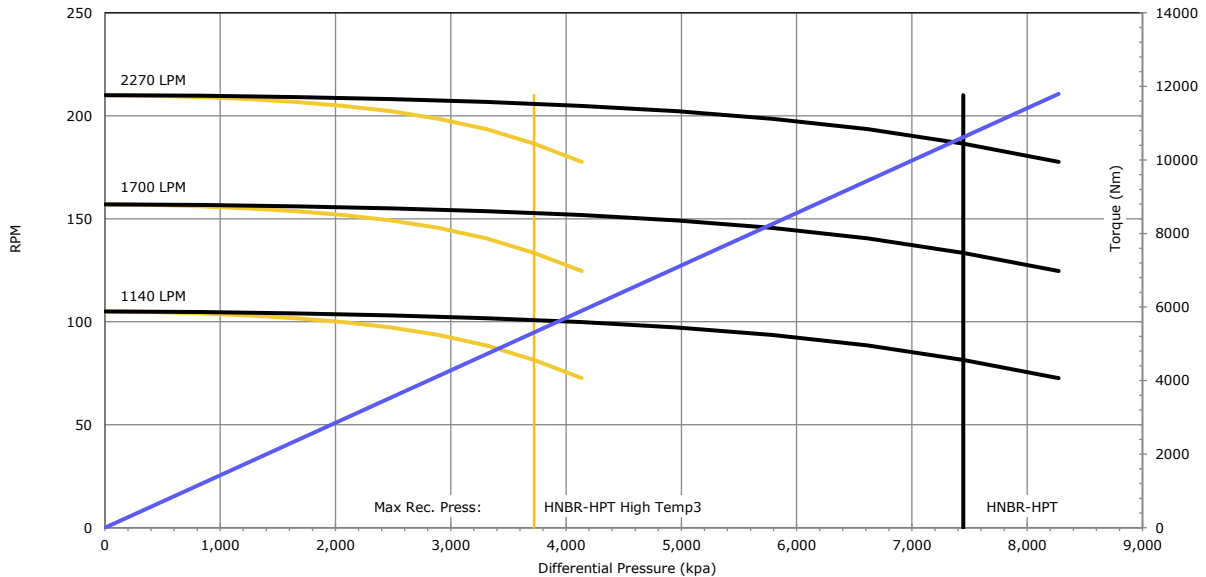
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	90.68	-0.15	0.76	1.22	1.68	2.14
.5 OS	91.14	-0.61	0.30	0.75	1.20	1.66
1.0 OS	91.31	-0.79	0.12	0.57	1.02	1.47
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	90.68	-0.15	0.76	1.22	1.68	2.14
.5 OS	91.14	-0.61	0.30	0.75	1.20	1.66
1.0 OS	91.31	-0.79	0.12	0.57	1.02	1.47
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	1140 - 2270
Speed Range (rpm)	110 - 210
Torque Slope (Nm/kpa)	1.43
Rotation (rev/Liter)	0.0925
Off Bottom Pressure (kpa)	800

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	3800	7500
Stall Diff Press (kpa)	5600	11800
Max Torque (Nm)	5400	10700
Stall Torque (Nm)	8000	16800

■ (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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