

POWER SECTION

Model No: AT775455.3

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	221.00
Contour Length	213.00
Major Diameter	4.94
Eccentricity	0.415
Head diameter	4.750
Thread Form	3.50 API IF
Weight	856 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	228.00
Tube OD	7.75
Tube ID	6.25
Rubber Cutback Top/End	8.00 / 8.00
Weight	1379 lbs
Number of Stages	5.3
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

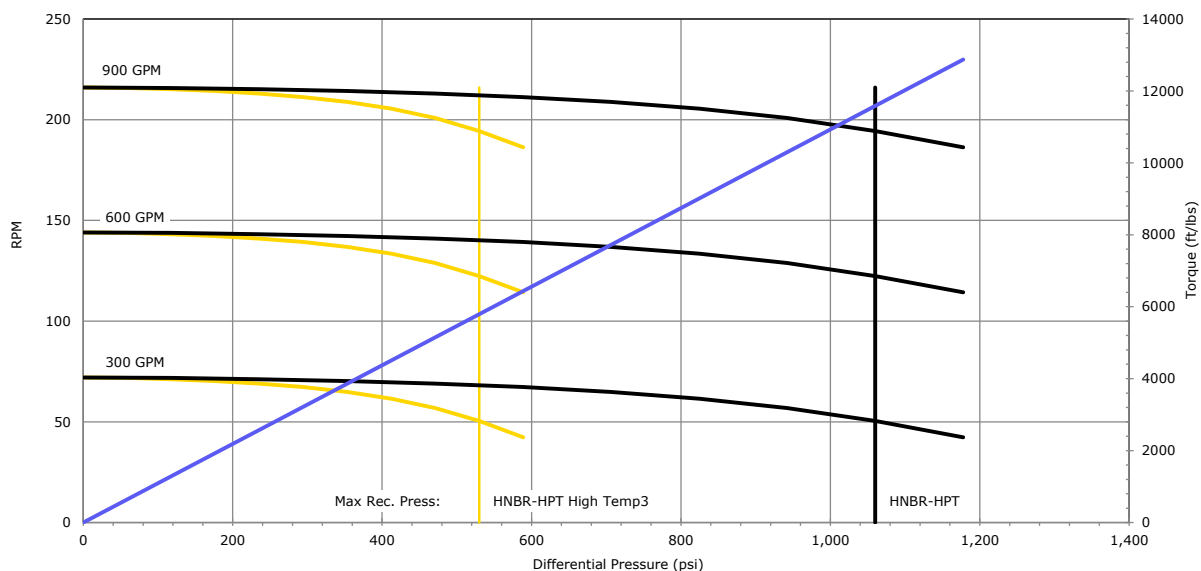
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	4.117	-0.007	0.015	0.038	0.071	0.093
.5 OS	4.130	-0.020	0.002	0.024	0.058	0.080
1.0 OS	4.142	-0.032	-0.010	0.012	0.045	0.067
1.5 OS	4.155	-0.045	-0.023	-0.001	0.032	0.054
2.0 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	4.117	-0.007	0.015	0.038	0.071	0.093
.5 OS	4.130	-0.020	0.002	0.024	0.058	0.080
1.0 OS	4.142	-0.032	-0.010	0.012	0.045	0.067
1.5 OS	4.155	-0.045	-0.023	-0.001	0.032	0.054
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	300 - 900
Speed Range (rpm)	70 - 220
Torque Slope (ft-lb/psi)	10.93
Rotation (rev/gal)	0.240
Off Bottom Pressure (psi)	130

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	530	1060
Stall Diff Press (psi)	800	1670
Max Torque (ft-lb)	5800	11590
Stall Torque (ft-lb)	8690	18250

■ (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: AT775455.3

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	5613.4
Contour Length	5410.2
Major Diameter	125.48
Eccentricity	10.54
Head diameter	120.65
Thread Form	3.50 API IF
Weight	388 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	5791.2
Tube OD	196.9
Tube ID	158.8
Rubber Cutback Top/End	203.0 / 203.0
Weight	625 kg
Number of Stages	5.3
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

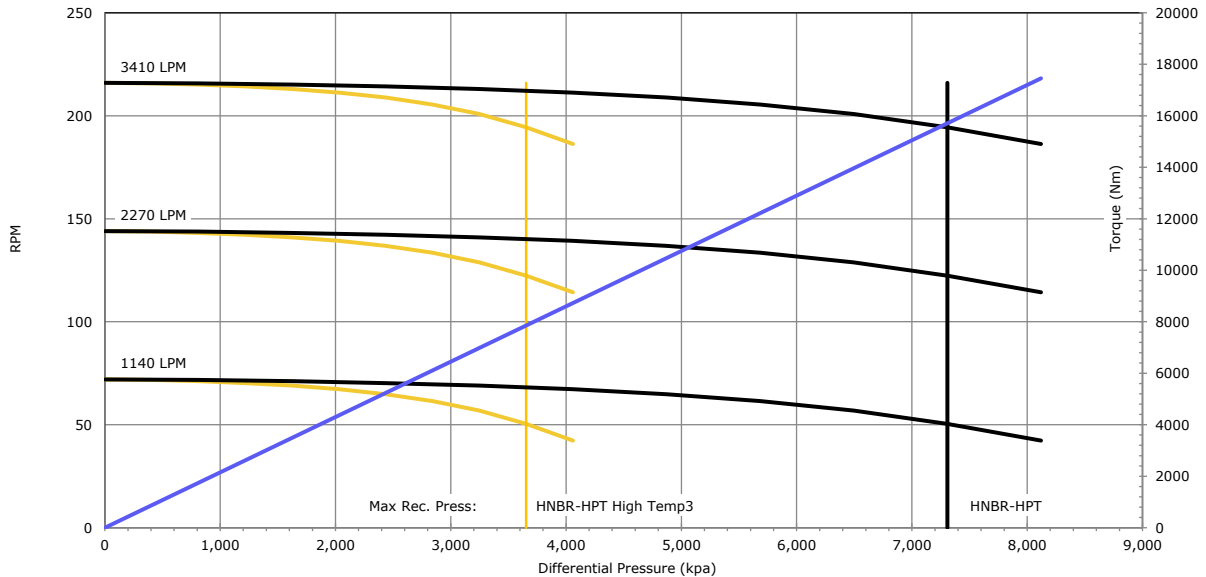
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	104.57	-0.18	0.84	1.35	1.86	2.37
.5 OS	104.90	-0.51	0.50	1.01	1.52	2.02
1.0 OS	105.21	-0.81	0.19	0.70	1.20	1.71
1.5 OS	105.54	-1.14	-0.14	0.36	0.86	1.36
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	104.57	-0.18	0.84	1.35	1.86	2.37
.5 OS	104.90	-0.51	0.50	1.01	1.52	2.02
1.0 OS	105.21	-0.81	0.19	0.70	1.20	1.71
1.5 OS	105.54	-1.14	-0.14	0.36	0.86	1.36
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	1140 - 3410
Speed Range (rpm)	70 - 220
Torque Slope (Nm/kpa)	2.15
Rotation (rev/Liter)	0.0634
Off Bottom Pressure (kpa)	870

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	3700	7400
Stall Diff Press (kpa)	5500	11600
Max Torque (Nm)	7900	15800
Stall Torque (Nm)	11800	24800

■ (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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