

POWER SECTION

Model No: AT625784.8

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	194.25
Contour Length	187.75
Major Diameter	3.98
Eccentricity	0.226
Head diameter	3.500
Thread Form	2.375 API REG
Weight	554 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	203.25
Tube OD	6.25
Tube ID	5.00
Rubber Cutback Top/End	8.00 / 8.00
Weight	699 lbs
Number of Stages	4.8
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

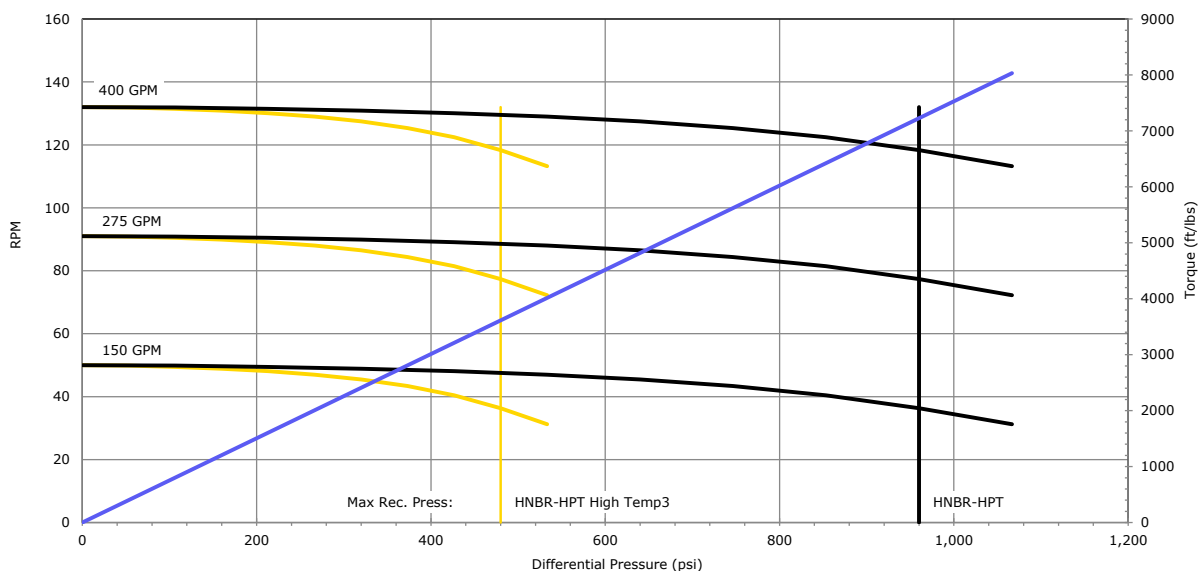
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	3.526	0.002	0.018	0.034	0.059	0.075
.5 OS	3.539	-0.011	0.005	0.021	0.045	0.061
1.0 OS	3.555	-0.027	-0.011	0.005	0.029	0.045
1.5 OS	3.564	-0.036	-0.020	-0.004	0.019	0.035
2.0 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	3.526	0.002	0.018	0.034	0.059	0.075
.5 OS	3.539	-0.011	0.005	0.021	0.045	0.061
1.0 OS	3.555	-0.027	-0.011	0.005	0.029	0.045
1.5 OS	3.564	-0.036	-0.020	-0.004	0.019	0.035
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	150 - 400
Speed Range (rpm)	50 - 130
Torque Slope (ft-lb/psi)	7.53
Rotation (rev/gal)	0.330
Off Bottom Pressure (psi)	70

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	480	960
Stall Diff Press (psi)	720	1520
Max Torque (ft-lb)	3620	7230
Stall Torque (ft-lb)	5430	11390

■ (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: AT625784.8

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	4934.0
Contour Length	4768.9
Major Diameter	101.09
Eccentricity	5.74
Head diameter	88.90
Thread Form	2.375 API REG
Weight	251 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	5162.6
Tube OD	158.8
Tube ID	127.0
Rubber Cutback Top/End	203.0 / 203.0
Weight	317 kg
Number of Stages	4.8
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

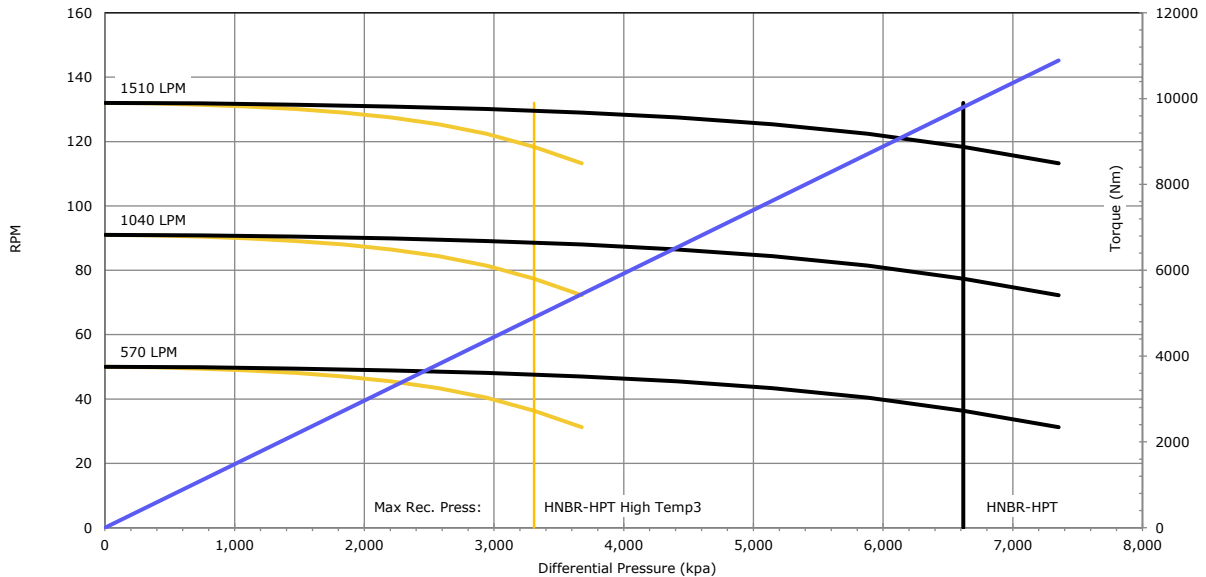
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	89.56	0.05	0.79	1.16	1.53	1.90
.5 OS	89.89	-0.28	0.46	0.82	1.19	1.56
1.0 OS	90.30	-0.69	0.04	0.40	0.77	1.13
1.5 OS	90.53	-0.91	-0.19	0.17	0.53	0.89
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	89.56	0.05	0.79	1.16	1.53	1.90
.5 OS	89.89	-0.28	0.46	0.82	1.19	1.56
1.0 OS	90.30	-0.69	0.04	0.40	0.77	1.13
1.5 OS	90.53	-0.91	-0.19	0.17	0.53	0.89
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	570 - 1510
Speed Range (rpm)	50 - 130
Torque Slope (Nm/kpa)	1.48
Rotation (rev/Liter)	0.0872
Off Bottom Pressure (kpa)	460

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	3400	6700
Stall Diff Press (kpa)	5000	10500
Max Torque (Nm)	5000	9900
Stall Torque (Nm)	7400	15500

■ (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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