

POWER SECTION

Model No: AT775784.0

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	196.25
Contour Length	188.25
Major Diameter	5.186
Eccentricity	0.293
Head diameter	4.750
Thread Form	3.50 API REG
Weight	956 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	203.25
Tube OD	7.75
Tube ID	6.25
Rubber Cutback Top/End	8.00 / 8.00
Weight	1062 lbs
Number of Stages	4.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

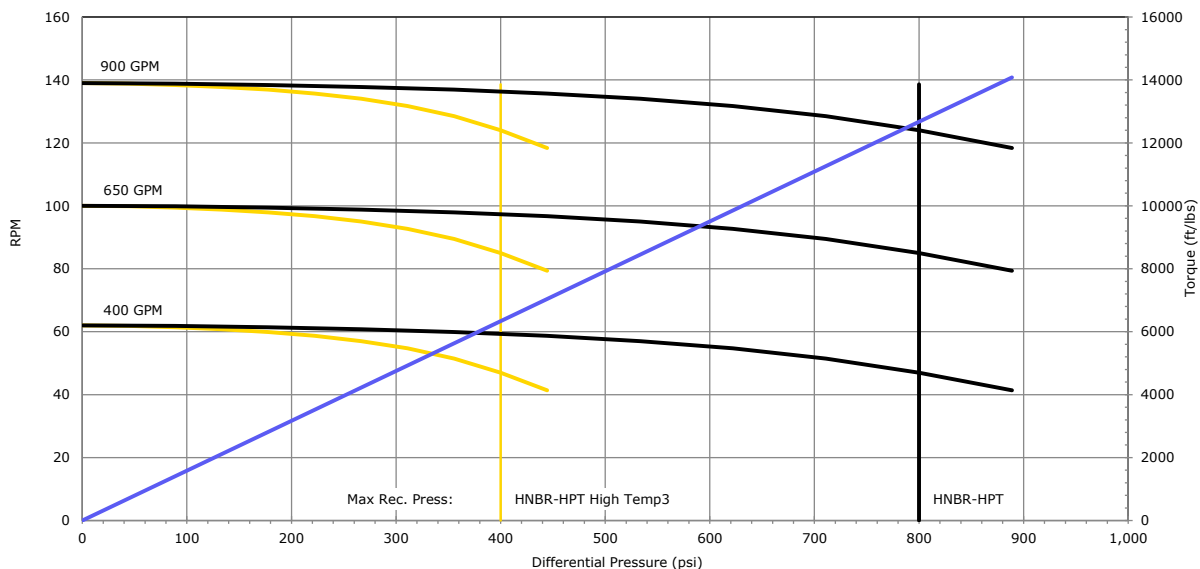
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US	4.581	0.019	0.037	0.056	0.083	0.102
STD	4.597	0.003	0.021	0.039	0.067	0.085
.5 OS	4.612	-0.012	0.006	0.024	0.051	0.069
1.0 OS	4.627	-0.027	-0.009	0.009	0.035	0.053
1.5 OS	4.642	-0.042	-0.024	-0.007	0.020	0.038
2.0 OS						
2.5 OS						

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Performance Specifications	
Flow Range (gpm)	400 - 900
Speed Range (rpm)	60 - 140
Torque Slope (ft-lb/psi)	15.84
Rotation (rev/gal)	0.154
Off Bottom Pressure (psi)	100

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	400	800
Stall Diff Press (psi)	600	1260
Max Torque (ft-lb)	6340	12680
Stall Torque (ft-lb)	9510	19960

■ (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: AT775784.0

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	4984.8
Contour Length	4781.6
Major Diameter	131.72
Eccentricity	7.44
Head diameter	120.65
Thread Form	3.50 API REG
Weight	434 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	5162.6
Tube OD	196.9
Tube ID	158.8
Rubber Cutback Top/End	203.0 / 203.0
Weight	482 kg
Number of Stages	4.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

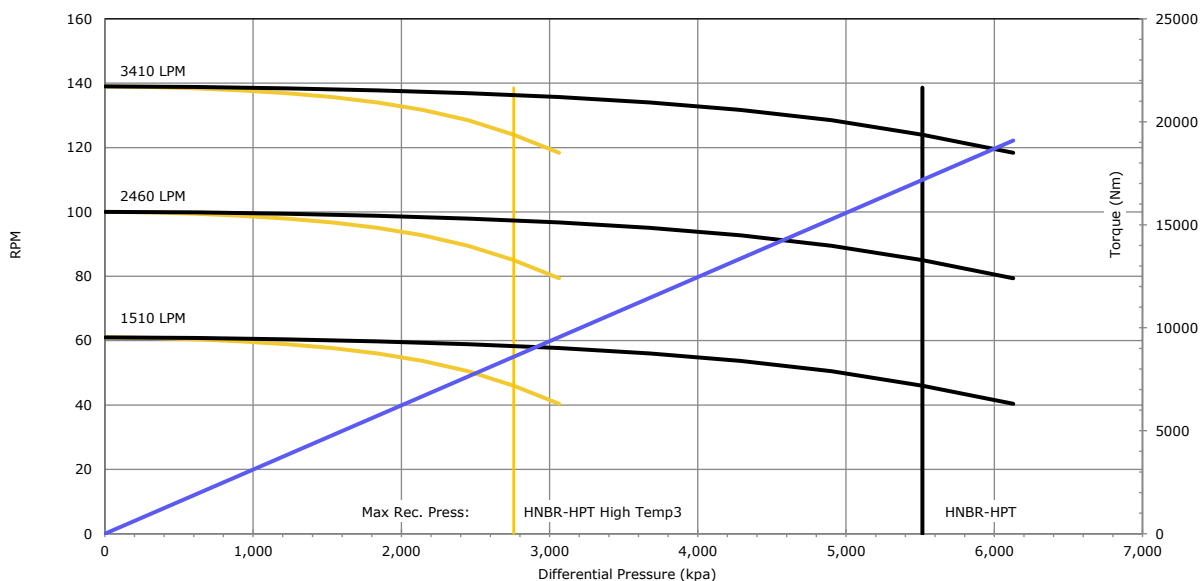
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US	116.36	0.48	1.32	1.74	2.16	2.58
STD	116.76	0.08	0.91	1.32	1.74	2.15
.5 OS	117.14	-0.30	0.52	0.93	1.34	1.75
1.0 OS	117.53	-0.69	0.13	0.54	0.95	1.35
1.5 OS	117.91	-1.07	-0.26	0.15	0.55	0.95
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
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1.5 OS	117.91	-1.07	-0.26	0.15	0.55	0.95
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	1510 - 3410
Speed Range (rpm)	60 - 140
Torque Slope (Nm/kpa)	3.12
Rotation (rev/Liter)	0.0407
Off Bottom Pressure (kpa)	700

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	2800	5600
Stall Diff Press (kpa)	4100	8700
Max Torque (Nm)	8600	17200
Stall Torque (Nm)	12900	27100

■ (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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