

POWER SECTION

Model No: AT375564.8

Revised: 12/9/2020

Rotor Specifications	
	inches
Overall Length	120.50
Contour Length	116.00
Major Diameter	2.432
Eccentricity	0.172
Head diameter	2.400
Thread Form	N/A
Weight	116 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	124.50
Tube OD	3.75
Tube ID	3.13
Rubber Cutback Top/End	6.00 / 6.00
Weight	138 lbs
Number of Stages	4.8
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

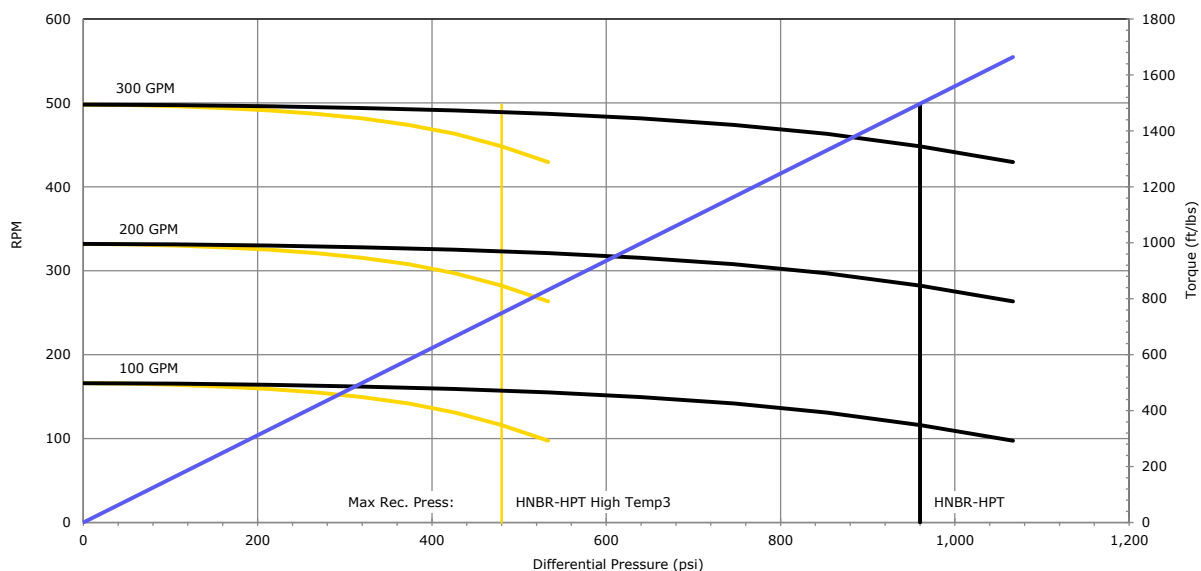
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	2.102	-0.014	-0.003	0.008	0.024	0.035
.5 OS						
1.0 OS	2.116	-0.027	-0.017	-0.006	0.009	0.020
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	2.102	-0.014	-0.003	0.008	0.024	0.035
.5 OS						
1.0 OS	2.116	-0.027	-0.017	-0.006	0.009	0.020
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	100 - 300
Speed Range (rpm)	170 - 500
Torque Slope (ft-lb/psi)	1.56
Rotation (rev/gal)	1.660
Off Bottom Pressure (psi)	110

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)	750	1500
Stall Torque (ft-lb)	1130	2360

■ (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: AT375564.8

Revised: 12/9/2020

Rotor Specifications	
	mm
Overall Length	3060.7
Contour Length	2946.4
Major Diameter	61.77
Eccentricity	4.36
Head diameter	60.96
Thread Form	N/A
Weight	53 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	3162.3
Tube OD	95.3
Tube ID	79.4
Rubber Cutback Top/End	152.0 / 152.0
Weight	63 kg
Number of Stages	4.8
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

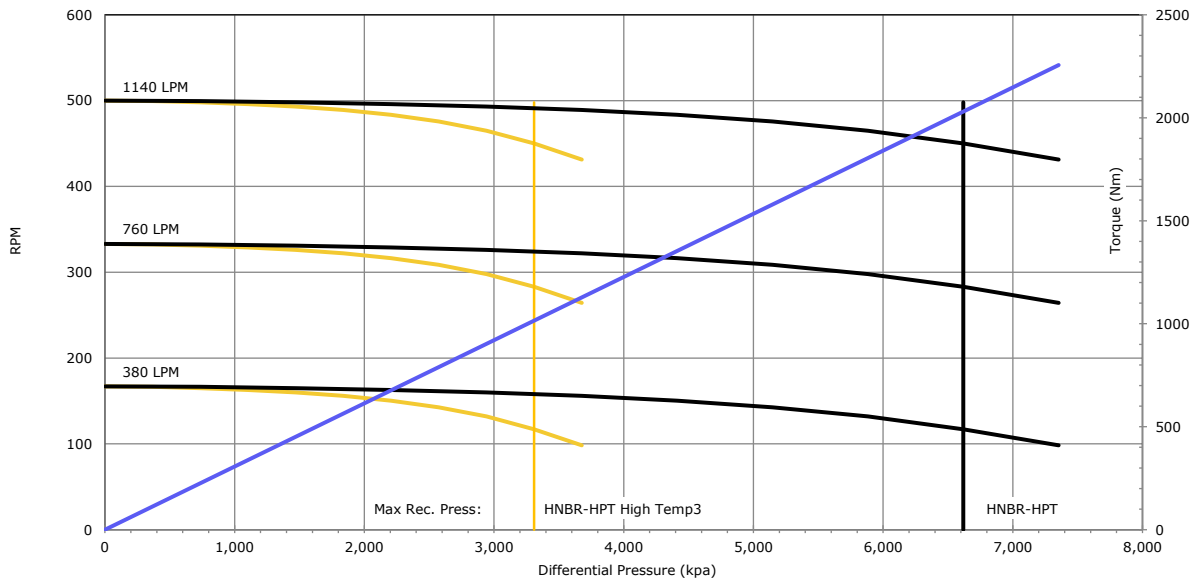
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	53.39	-0.34	0.15	0.39	0.63	0.88
.5 OS						
1.0 OS	53.75	-0.70	-0.22	0.02	0.27	0.51
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	53.39	-0.34	0.15	0.39	0.63	0.88
.5 OS						
1.0 OS	53.75	-0.70	-0.22	0.02	0.27	0.51
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	380 - 1140
Speed Range (rpm)	170 - 500
Torque Slope (Nm/kpa)	0.31
Rotation (rev/Liter)	0.4385
Off Bottom Pressure (kpa)	740

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	3400	6700
Stall Diff Press (kpa)	5000	10500
Max Torque (Nm)	1100	2100
Stall Torque (Nm)	1600	3200

■ (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.

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