

POWER SECTION

Model No: AT6759102.1

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	75.00
Contour Length	68.00
Major Diameter	4.312
Eccentricity	0.194
Head diameter	4.300
Thread Form	2.875 API IF
Weight	261 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	81.00
Tube OD	6.75
Tube ID	5.50
Rubber Cutback Top/End	8.00 / 8.00
Weight	303 lbs
Number of Stages	2.1
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

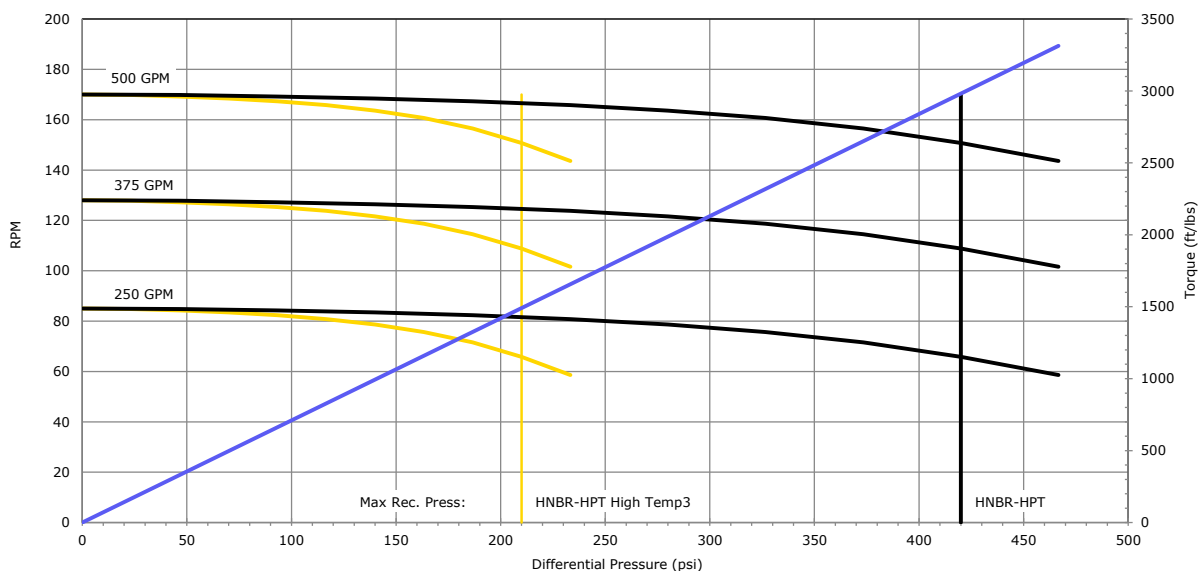
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	3.922	0.002	0.020	0.038	0.065	0.083
.5 OS						
1.0 OS	3.945	-0.021	-0.004	0.014	0.041	0.059
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	3.922	0.002	0.020	0.038	0.065	0.083
.5 OS						
1.0 OS	3.945	-0.021	-0.004	0.014	0.041	0.059
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	250 - 500
Speed Range (rpm)	90 - 170
Torque Slope (ft-lb/psi)	7.10
Rotation (rev/gal)	0.340
Off Bottom Pressure (psi)	90

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	210	420
Stall Diff Press (psi)	320	670
Max Torque (ft-lb)	1500	2990
Stall Torque (ft-lb)	2240	4700

■ (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: AT6759102.1

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	1905.0
Contour Length	1727.2
Major Diameter	109.52
Eccentricity	4.93
Head diameter	109.22
Thread Form	2.875 API IF
Weight	118 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	2057.4
Tube OD	171.5
Tube ID	139.7
Rubber Cutback Top/End	203.0 / 203.0
Weight	137 kg
Number of Stages	2.1
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

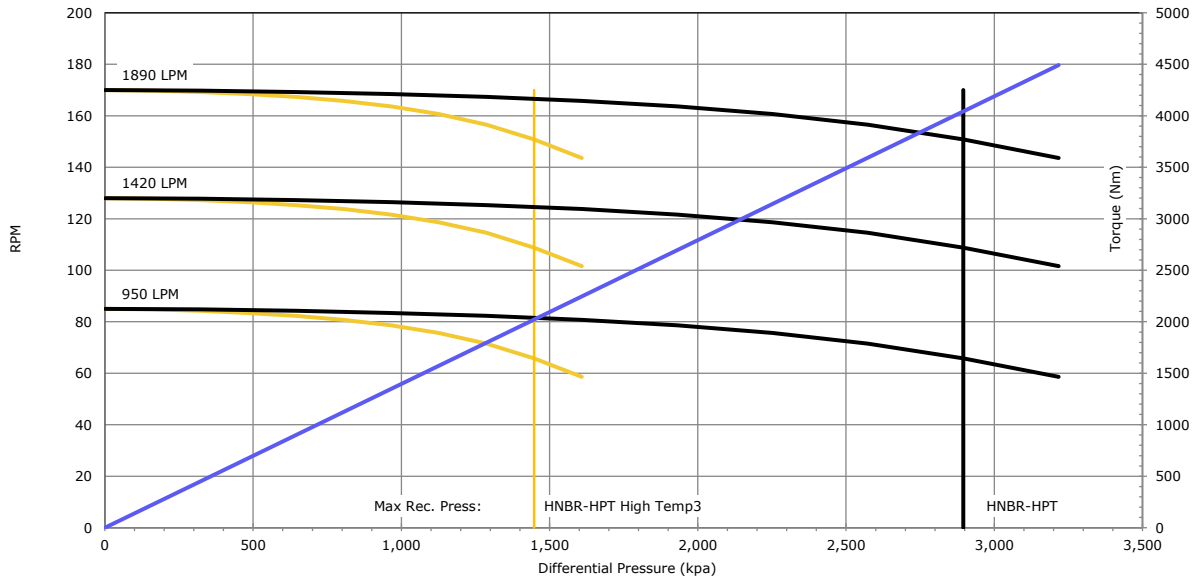
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	99.62	0.04	0.87	1.28	1.70	2.11
.5 OS						
1.0 OS	100.20	-0.55	0.27	0.68	1.09	1.50
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	99.62	0.04	0.87	1.28	1.70	2.11
.5 OS						
1.0 OS	100.20	-0.55	0.27	0.68	1.09	1.50
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	950 - 1890
Speed Range (rpm)	90 - 170
Torque Slope (Nm/kpa)	1.40
Rotation (rev/Liter)	0.0898
Off Bottom Pressure (kpa)	610

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	1500	2900
Stall Diff Press (kpa)	2200	4600
Max Torque (Nm)	2100	4100
Stall Torque (Nm)	3100	6400

■ (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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