

POWER SECTION

Model No: AT675785.0

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	188.00
Contour Length	181.00
Major Diameter	4.52
Eccentricity	0.256
Head diameter	4.000
Thread Form	2.875 API REG
Weight	694 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	194.50
Tube OD	6.75
Tube ID	5.50
Rubber Cutback Top/End	8.00 / 8.00
Weight	746 lbs
Number of Stages	5.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

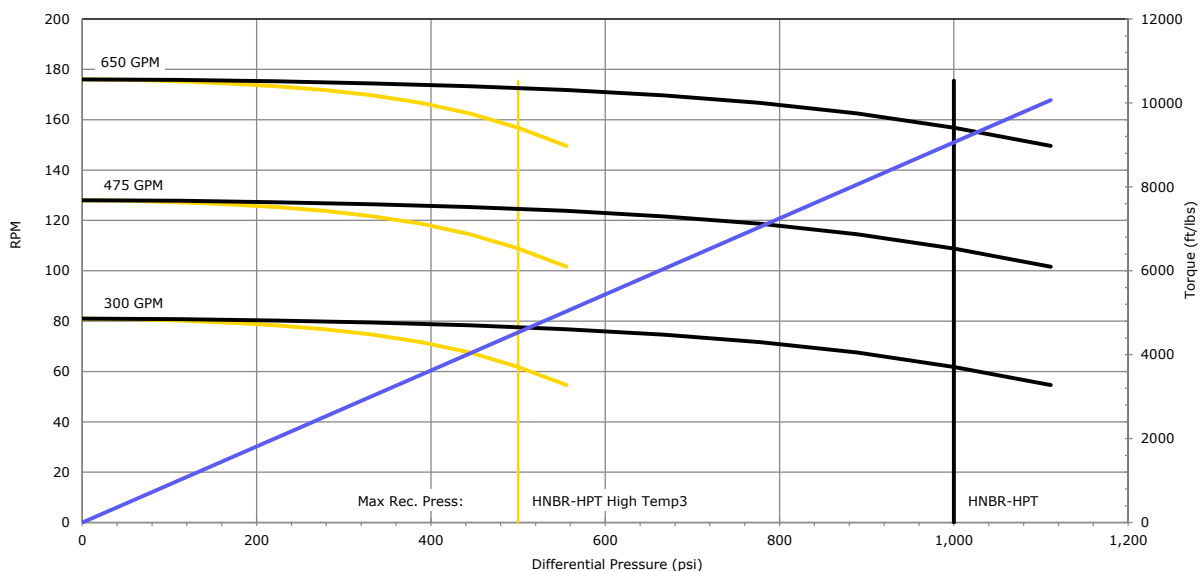
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	3.999	0.009	0.024	0.039	0.061	0.076
.5 OS	4.014	-0.006	0.009	0.023	0.045	0.060
1.0 OS	4.026	-0.018	-0.003	0.011	0.033	0.048
1.5 OS	4.035	-0.027	-0.012	0.002	0.024	0.038
2.0 OS	4.046	-0.038	-0.024	-0.009	0.012	0.027
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	3.999	0.009	0.024	0.039	0.061	0.076
.5 OS	4.014	-0.006	0.009	0.023	0.045	0.060
1.0 OS	4.026	-0.018	-0.003	0.011	0.033	0.048
1.5 OS	4.035	-0.027	-0.012	0.002	0.024	0.038
2.0 OS	4.046	-0.038	-0.024	-0.009	0.012	0.027
2.5 OS						

Performance Specifications	
Flow Range (gpm)	300 - 650
Speed Range (rpm)	80 - 180
Torque Slope (ft-lb/psi)	9.06
Rotation (rev/gal)	0.270
Off Bottom Pressure (psi)	110

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	500	1000
Stall Diff Press (psi)	750	1580
Max Torque (ft-lb)	4530	9060
Stall Torque (ft-lb)	6800	14270

■ (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: AT675785.0

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	4775.2
Contour Length	4597.4
Major Diameter	114.81
Eccentricity	6.50
Head diameter	101.60
Thread Form	2.875 API REG
Weight	315 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	4940.3
Tube OD	171.5
Tube ID	139.7
Rubber Cutback Top/End	203.0 / 203.0
Weight	338 kg
Number of Stages	5.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

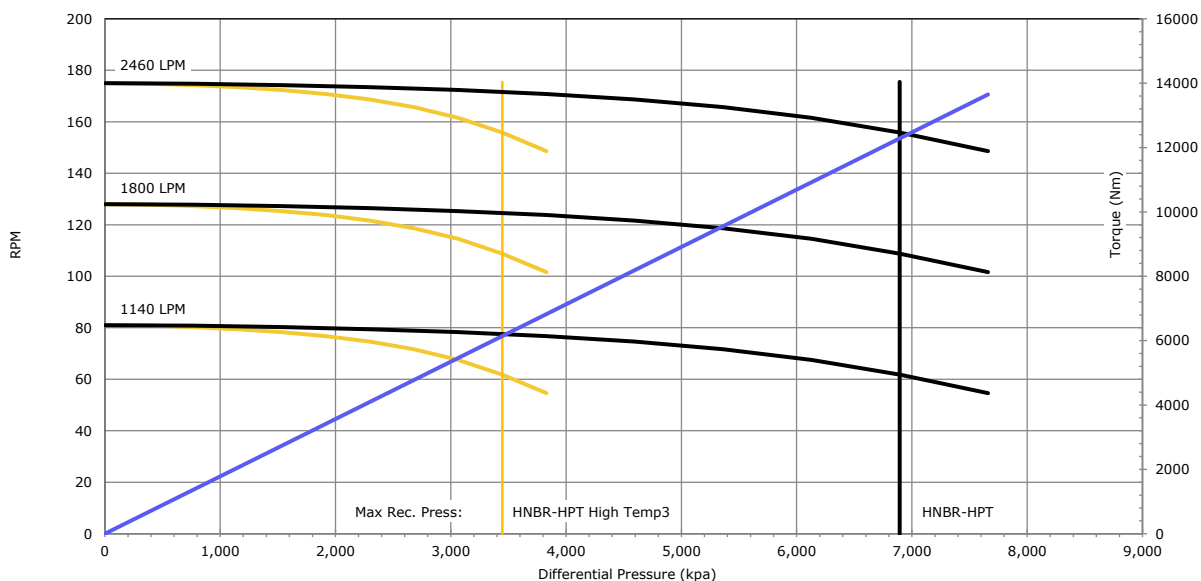
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	101.57	0.23	0.91	1.25	1.59	1.93
.5 OS	101.96	-0.15	0.52	0.86	1.19	1.53
1.0 OS	102.26	-0.46	0.21	0.54	0.88	1.21
1.5 OS	102.49	-0.69	-0.02	0.31	0.64	0.97
2.0 OS	102.77	-0.97	-0.31	0.02	0.35	0.68
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	101.57	0.23	0.91	1.25	1.59	1.93
.5 OS	101.96	-0.15	0.52	0.86	1.19	1.53
1.0 OS	102.26	-0.46	0.21	0.54	0.88	1.21
1.5 OS	102.49	-0.69	-0.02	0.31	0.64	0.97
2.0 OS	102.77	-0.97	-0.31	0.02	0.35	0.68
2.5 OS						

Performance Specifications	
Flow Range (lpm)	1140 - 2460
Speed Range (rpm)	80 - 180
Torque Slope (Nm/kpa)	1.78
Rotation (rev/Liter)	0.0713
Off Bottom Pressure (kpa)	720

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	3500	6900
Stall Diff Press (kpa)	5200	10900
Max Torque (Nm)	6200	12300
Stall Torque (Nm)	9300	19400

■ (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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