

POWER SECTION

Model No: AT625782.9 ESX

Revised: 9/9/2020

Rotor Specifications	
	inches
Overall Length	220.75
Contour Length	214.25
Major Diameter	4.204
Eccentricity	0.233
Head diameter	4.000
Thread Form	2.375 API REG
Weight	712 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	228.75
Tube OD	6.25
Tube ID	5.00
Rubber Cutback Top/End	8.00 / 8.00
Weight	676 lbs
Number of Stages	2.9
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

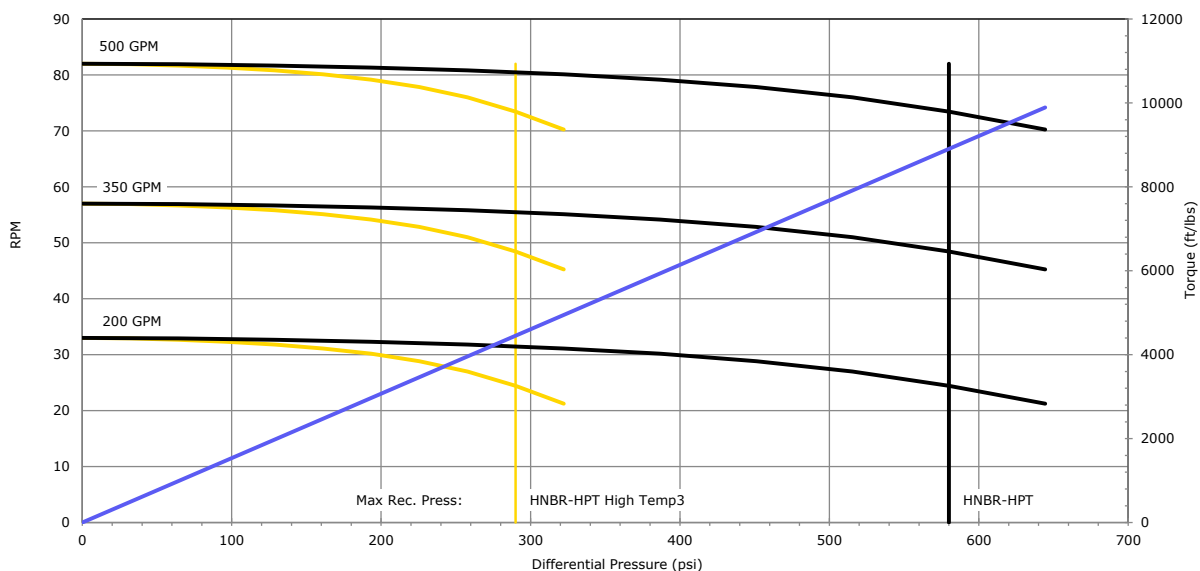
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	3.744	-0.006	0.011	0.027	0.052	0.069
.5 OS	3.757	-0.019	-0.003	0.014	0.038	0.055
1.0 OS	3.769	-0.031	-0.015	0.002	0.026	0.042
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
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STD	3.744	-0.006	0.011	0.027	0.052	0.069
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1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	200 - 500
Speed Range (rpm)	30 - 80
Torque Slope (ft-lb/psi)	15.35
Rotation (rev/gal)	0.164
Off Bottom Pressure (psi)	50

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (psi)	290	580
Stall Diff Press (psi)	440	920
Max Torque (ft-lb)	4460	8910
Stall Torque (ft-lb)	6680	14030

■ (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: AT625782.9 ESX

Revised: 9/9/2020

Rotor Specifications	
	mm
Overall Length	5607.1
Contour Length	5442.0
Major Diameter	106.78
Eccentricity	5.92
Head diameter	101.60
Thread Form	2.375 API REG
Weight	323 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	5810.3
Tube OD	158.8
Tube ID	127.0
Rubber Cutback Top/End	203.0 / 203.0
Weight	307 kg
Number of Stages	2.9
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

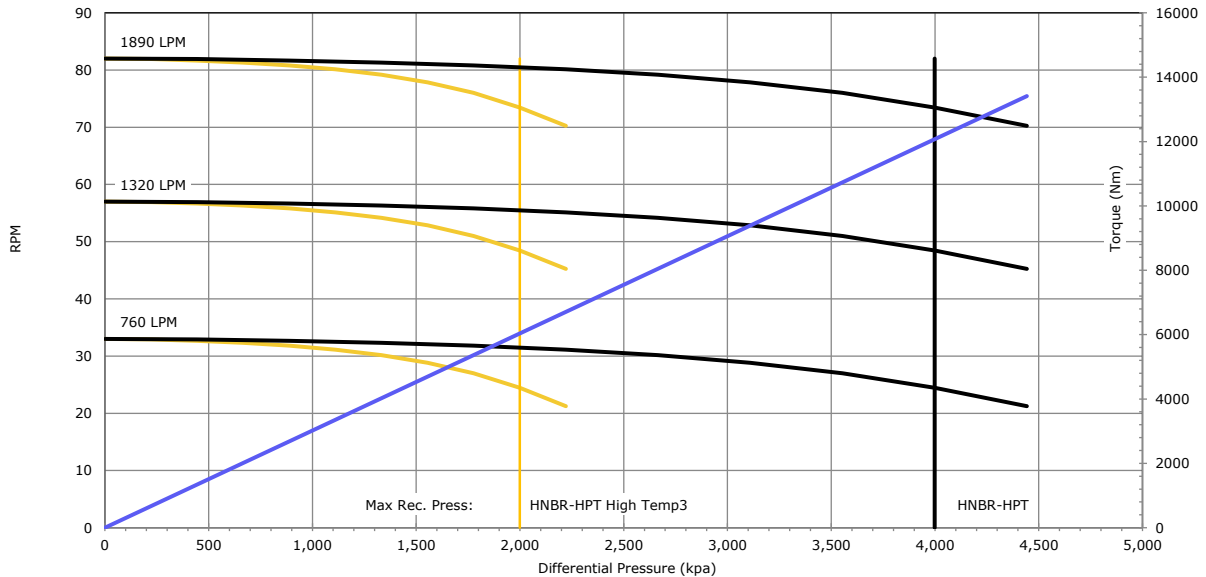
HNBR-HPT High Temp ³ (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	95.10	-0.15	0.60	0.98	1.36	1.74
.5 OS	95.43	-0.48	0.27	0.64	1.02	1.39
1.0 OS	95.73	-0.79	-0.04	0.33	0.70	1.07
1.5 OS						
2.0 OS						
2.5 OS						

HNBR-HPT (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	95.10	-0.15	0.60	0.98	1.36	1.74
.5 OS	95.43	-0.48	0.27	0.64	1.02	1.39
1.0 OS	95.73	-0.79	-0.04	0.33	0.70	1.07
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	760 - 1890
Speed Range (rpm)	30 - 80
Torque Slope (Nm/kpa)	3.02
Rotation (rev/Liter)	0.0433
Off Bottom Pressure (kpa)	360

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	2000	4000
Stall Diff Press (kpa)	3000	6300
Max Torque (Nm)	6100	12100
Stall Torque (Nm)	9100	19100

■ (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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