

POWER SECTION

Model No: AT962785.7

Revised: 9/24/2020

Rotor Specifications	
	inches
Overall Length	230.88
Contour Length	222.00
Major Diameter	6.373
Eccentricity	0.354
Head diameter	5.500
Thread Form	4.00 API FH
Weight	1651 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	240.00
Tube OD	9.63
Tube ID	7.88
Rubber Cutback Top/End	10.00 / 10.00
Weight	1900 lbs
Number of Stages	5.7
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPW & NBR-HPO

NBR-HPW (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US	5.645	0.020	0.041	0.062	0.094	0.116
STD	5.660	0.005	0.026	0.047	0.079	0.100
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

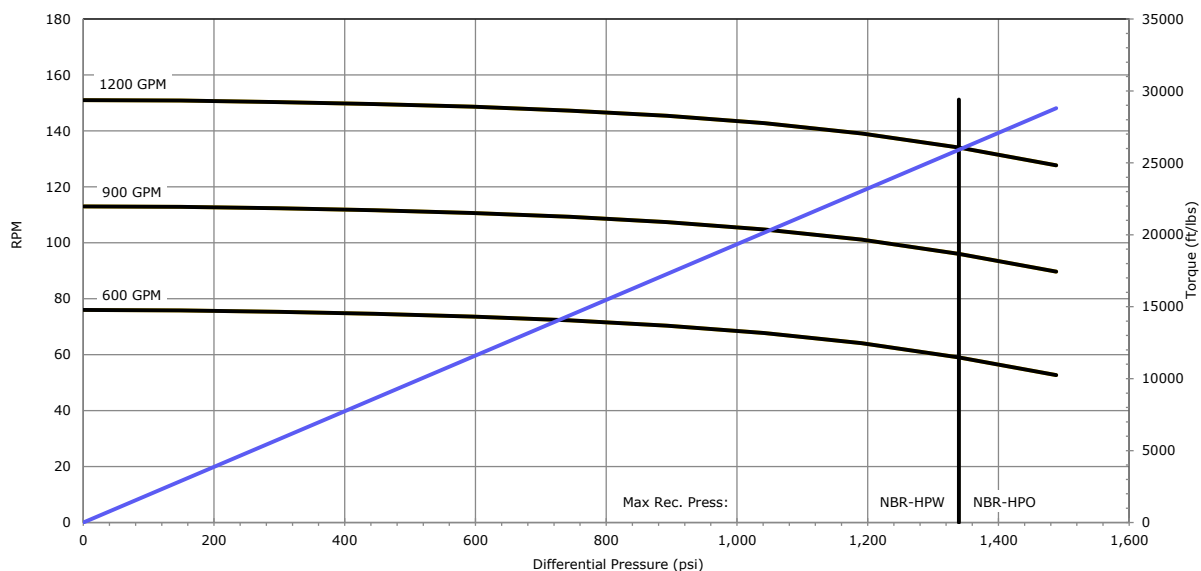
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US	5.645	0.020	0.041	0.062	0.094	0.116
STD	5.660	0.005	0.026	0.047	0.079	0.100
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	600 - 1200
Speed Range (rpm)	80 - 150
Torque Slope (ft-lb/psi)	19.35
Rotation (rev/gal)	0.126
Off Bottom Pressure (psi)	140

Performance Details		NBR-HPW	NBR-HPO
Max Diff Press (psi)		1340	1340
Stall Diff Press (psi)		2110	2110
Max Torque (ft-lb)		25920	25920
Stall Torque (ft-lb)		40830	40830

■ (NBR-HPW/HPO)

■ Torque



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 75°F ³ BHCT Exceeding 320°F will void warranty for NBR-HPW/HPO.

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: AT962785.7

Revised: 9/24/2020

Rotor Specifications	
	mm
Overall Length	5864.4
Contour Length	5638.8
Major Diameter	161.87
Eccentricity	8.99
Head diameter	139.70
Thread Form	4.00 API FH
Weight	749 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	6096.0
Tube OD	244.5
Tube ID	200.2
Rubber Cutback Top/End	254.0 / 254.0
Weight	862 kg
Number of Stages	5.7
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	NBR-HPW & NBR-HPO

NBR-HPW (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US	143.38	0.51	1.48	1.96	2.45	2.93
STD	143.76	0.13	1.09	1.57	2.06	2.54
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

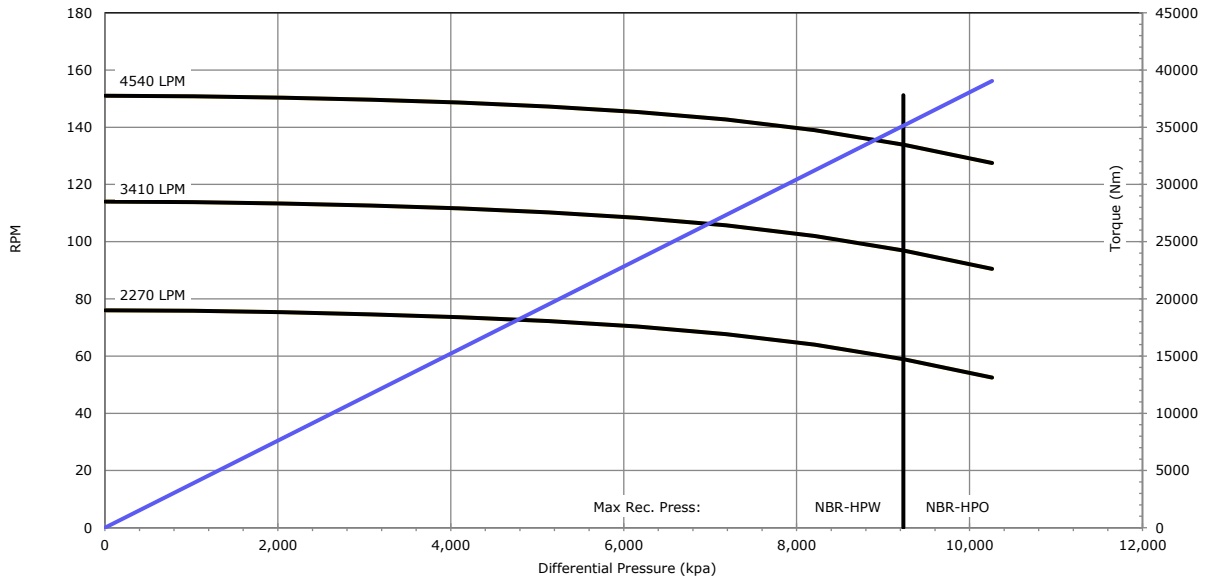
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US	143.38	0.51	1.48	1.96	2.45	2.93
STD	143.76	0.13	1.09	1.57	2.06	2.54
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	2270 - 4540
Speed Range (rpm)	80 - 150
Torque Slope (Nm/kpa)	3.81
Rotation (rev/Liter)	0.0333
Off Bottom Pressure (kpa)	980

Performance Details		
	NBR-HPW	NBR-HPO
Max Diff Press (kpa)	9300	9300
Stall Diff Press (kpa)	14500	14600
Max Torque (Nm)	35200	35200
Stall Torque (Nm)	55400	55400

■ (NBR-HPW/HPO)

■ Torque



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 25°C ³ BHCT Exceeding 160°C will void warranty for NBR-HPW/HPO.

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