

POWER SECTION

Model No: AT1125675.5

Revised: 9/24/2020

Rotor Specifications	
	inches
Overall Length	240.00
Contour Length	230.00
Major Diameter	7.683
Eccentricity	0.487
Head diameter	6.500
Thread Form	2.125-6 SA
Weight	2260 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	250.00
Tube OD	11.25
Tube ID	9.25
Rubber Cutback Top/End	10.50 / 10.50
Weight	2571 lbs
Number of Stages	5.5
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						
STD	6.691	0.018	0.042	0.067	0.103	0.127
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

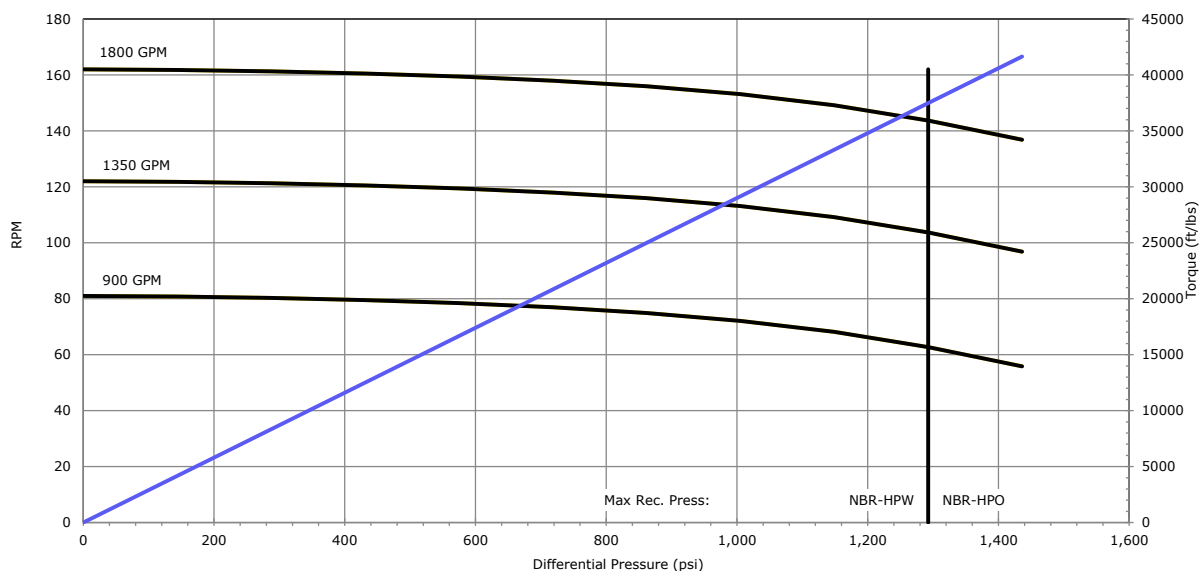
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	6.691	0.018	0.042	0.067	0.103	0.127
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	900 - 1800
Speed Range (rpm)	80 - 160
Torque Slope (ft-lb/psi)	29.00
Rotation (rev/gal)	0.090
Off Bottom Pressure (psi)	180

Performance Details		NBR-HPW	NBR-HPO
Max Diff Press (psi)		1300	1300
Stall Diff Press (psi)		2040	2040
Max Torque (ft-lb)		37490	37490
Stall Torque (ft-lb)		59040	59040

■ (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: AT1125675.5

Revised: 9/24/2020

Rotor Specifications	
	mm
Overall Length	6096.0
Contour Length	5842.0
Major Diameter	195.15
Eccentricity	12.37
Head diameter	165.10
Thread Form	2.125-6 SA
Weight	1025 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	6350.0
Tube OD	285.8
Tube ID	235.0
Rubber Cutback Top/End	267.0 / 267.0
Weight	1166 kg
Number of Stages	5.5
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						
STD	169.95	0.46	1.57	2.12	2.68	3.24
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

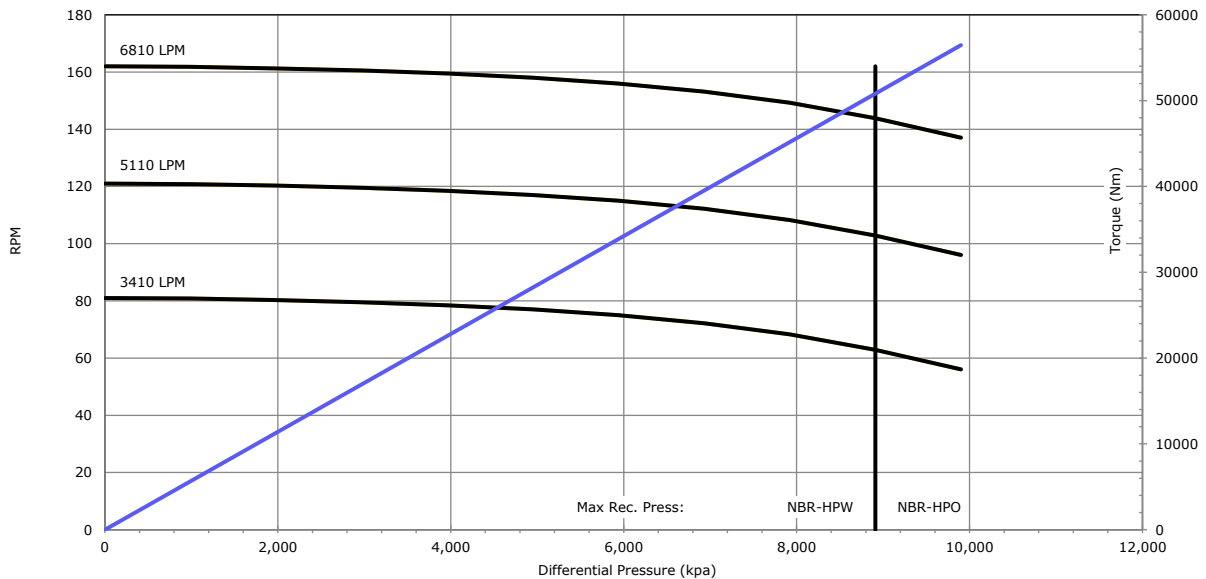
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	169.95	0.46	1.57	2.12	2.68	3.24
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	3410 - 6810
Speed Range (rpm)	80 - 160
Torque Slope (Nm/kpa)	5.70
Rotation (rev/Liter)	0.0238
Off Bottom Pressure (kpa)	1230

Performance Details		
	NBR-HPW	NBR-HPO
Max Diff Press (kpa)	9000	9000
Stall Diff Press (kpa)	14000	14100
Max Torque (Nm)	50900	50900
Stall Torque (Nm)	80100	80100

■ (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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