

POWER SECTION

Model No: AT962676.0

Revised: 9/24/2020

Rotor Specifications	
	inches
Overall Length	240.00
Contour Length	233.00
Major Diameter	6.403
Eccentricity	0.428
Head diameter	5.500
Thread Form	4.00 API FH
Weight	1642 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	250.00
Tube OD	9.63
Tube ID	7.88
Rubber Cutback Top/End	9.00 / 9.00
Weight	1924 lbs
Number of Stages	6.0
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	5.536	0.011	0.035	0.058	0.094	0.117
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

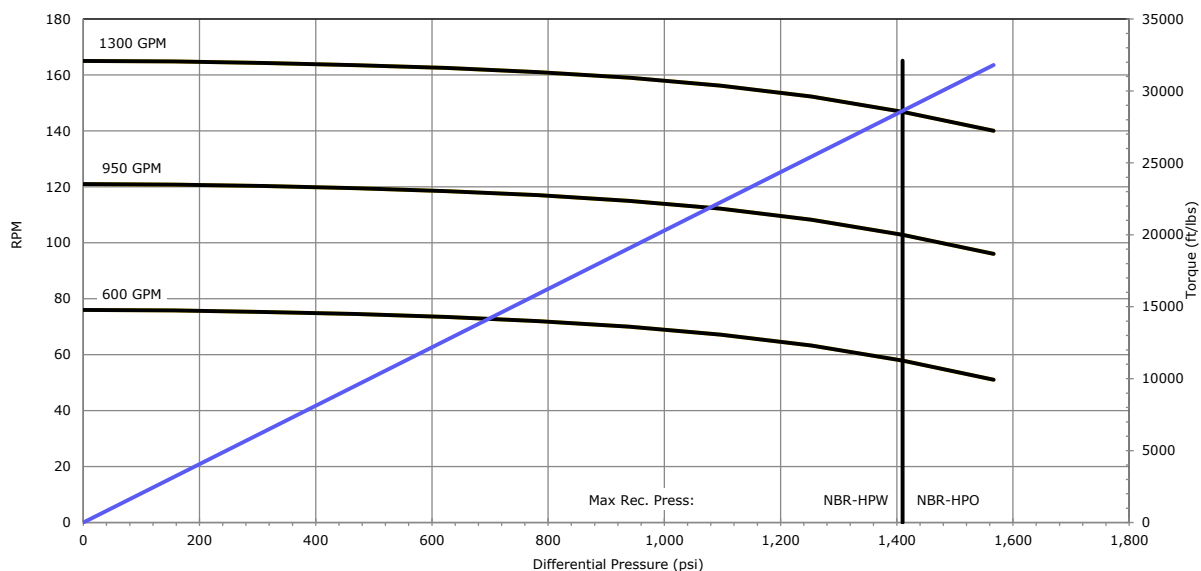
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	5.536	0.011	0.035	0.058	0.094	0.117
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	600 - 1300
Speed Range (rpm)	80 - 170
Torque Slope (ft-lb/psi)	20.30
Rotation (rev/gal)	0.127
Off Bottom Pressure (psi)	150

Performance Details		NBR-HPW	NBR-HPO
Max Diff Press (psi)		1410	1410
Stall Diff Press (psi)		2230	2230
Max Torque (ft-lb)		28630	28630
Stall Torque (ft-lb)		45090	45090

■ (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: AT962676.0

Revised: 9/24/2020

Rotor Specifications	
	mm
Overall Length	6096.0
Contour Length	5918.2
Major Diameter	162.64
Eccentricity	10.86
Head diameter	139.70
Thread Form	4.00 API FH
Weight	745 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	6350.0
Tube OD	244.5
Tube ID	200.2
Rubber Cutback Top/End	229.0 / 229.0
Weight	873 kg
Number of Stages	6.0
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	140.61	0.29	1.36	1.90	2.44	2.97
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

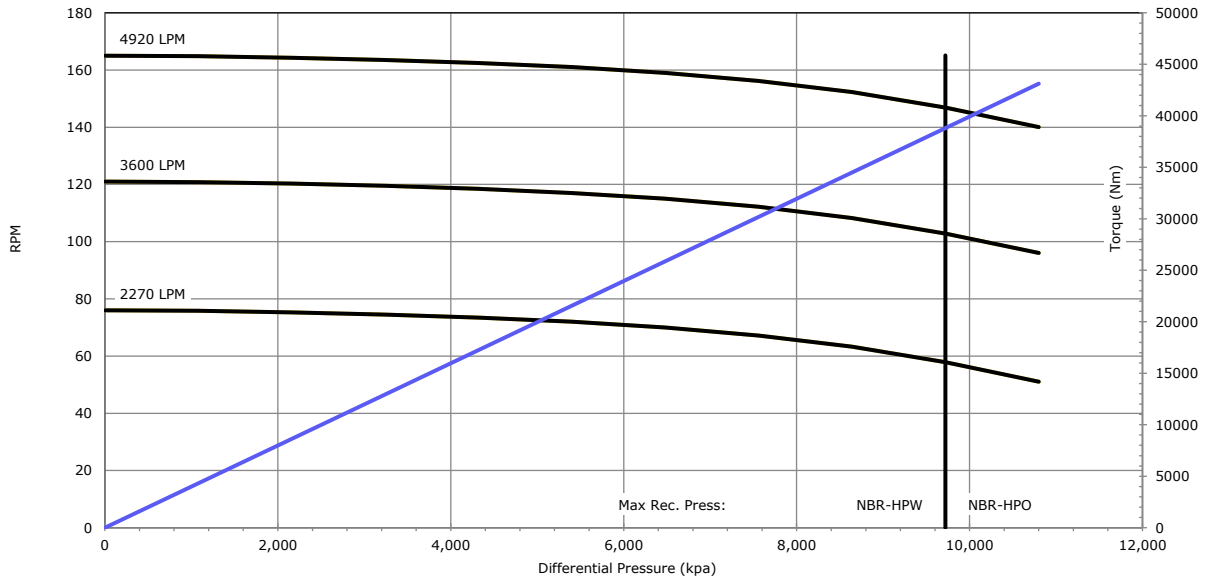
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	140.61	0.29	1.36	1.90	2.44	2.97
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	2270 - 4920
Speed Range (rpm)	80 - 170
Torque Slope (Nm/kpa)	3.99
Rotation (rev/Liter)	0.0335
Off Bottom Pressure (kpa)	1060

Performance Details		
	NBR-HPW	NBR-HPO
Max Diff Press (kpa)	9800	9800
Stall Diff Press (kpa)	15300	15400
Max Torque (Nm)	38900	38900
Stall Torque (Nm)	61200	61200

■ (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.

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