

POWER SECTION

Model No: AT962565.0

Revised: 9/24/2020

Rotor Specifications	
	inches
Overall Length	222.00
Contour Length	213.00
Major Diameter	6.296
Eccentricity	0.472
Head diameter	5.500
Thread Form	4.00 API FH
Weight	1410 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	232.00
Tube OD	9.63
Tube ID	7.88
Rubber Cutback Top/End	10.00 / 10.00
Weight	1811 lbs
Number of Stages	5.0
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	5.357	-0.005	0.020	0.045	0.083	0.109
.5 OS						
1.0 OS	5.382	-0.030	-0.005	0.020	0.057	0.082
1.5 OS						
2.0 OS						
2.5 OS						

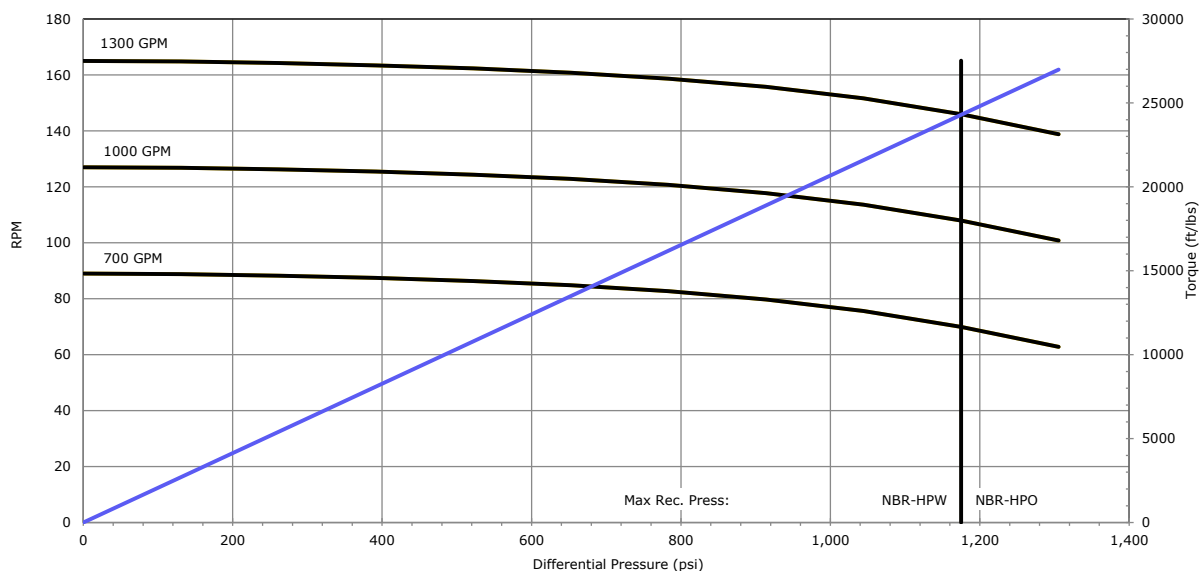
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	5.357	-0.005	0.020	0.045	0.083	0.109
.5 OS						
1.0 OS	5.382	-0.030	-0.005	0.020	0.057	0.082
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	700 - 1300
Speed Range (rpm)	90 - 170
Torque Slope (ft-lb/psi)	20.67
Rotation (rev/gal)	0.127
Off Bottom Pressure (psi)	150

Performance Details		NBR-HPW	NBR-HPO
Max Diff Press (psi)		1180	1180
Stall Diff Press (psi)		1860	1860
Max Torque (ft-lb)		24290	24290
Stall Torque (ft-lb)		38260	38260

■ (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: AT962565.0

Revised: 9/24/2020

Rotor Specifications	
	mm
Overall Length	5638.8
Contour Length	5410.2
Major Diameter	159.92
Eccentricity	11.99
Head diameter	139.70
Thread Form	4.00 API FH
Weight	639 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	5892.8
Tube OD	244.5
Tube ID	200.2
Rubber Cutback Top/End	254.0 / 254.0
Weight	821 kg
Number of Stages	5.0
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	136.07	-0.13	1.03	1.60	2.18	2.76
.5 OS						
1.0 OS	136.70	-0.76	0.38	0.95	1.52	2.09
1.5 OS						
2.0 OS						
2.5 OS						

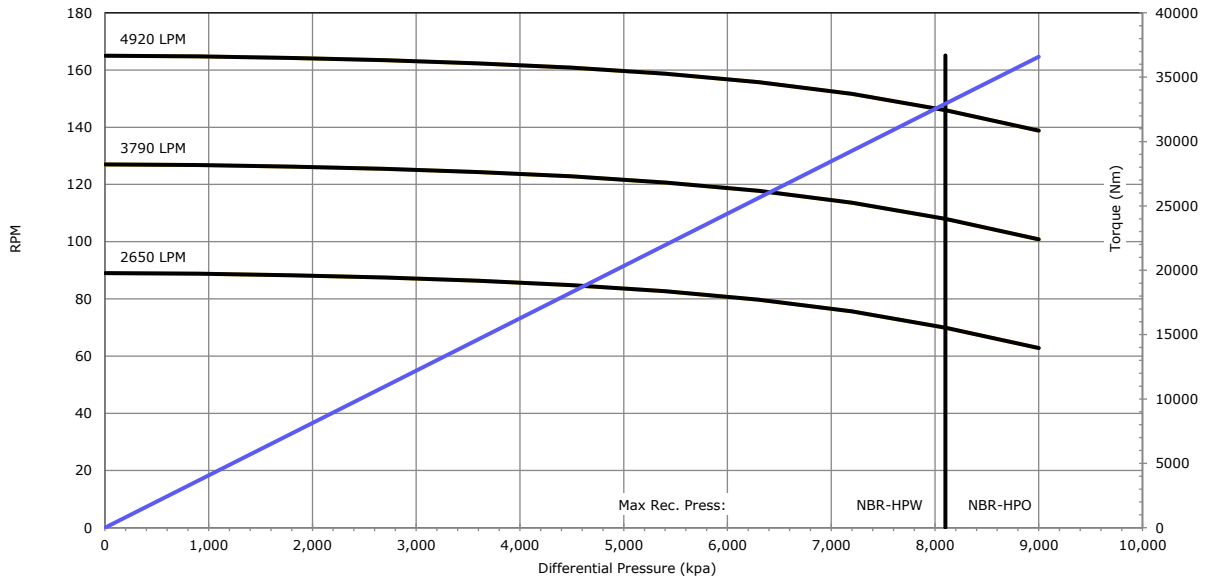
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	136.07	-0.13	1.03	1.60	2.18	2.76
.5 OS						
1.0 OS	136.70	-0.76	0.38	0.95	1.52	2.09
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	2650 - 4920
Speed Range (rpm)	90 - 170
Torque Slope (Nm/kpa)	4.07
Rotation (rev/Liter)	0.0335
Off Bottom Pressure (kpa)	1040

Performance Details		
	NBR-HPW	NBR-HPO
Max Diff Press (kpa)	8200	8200
Stall Diff Press (kpa)	12800	12800
Max Torque (Nm)	33000	33000
Stall Torque (Nm)	51900	51900

■ (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