

## POWER SECTION

**Model No: AT775782.2**

Revised: 9/24/2020

Rotor Specifications	
	inches
Overall Length	221.00
Contour Length	213.00
Major Diameter	5.075
Eccentricity	0.278
Head diameter	4.750
Thread Form	3.50 API IF
Weight	1043 lbs
Material	17-4 PH <sup>1</sup>

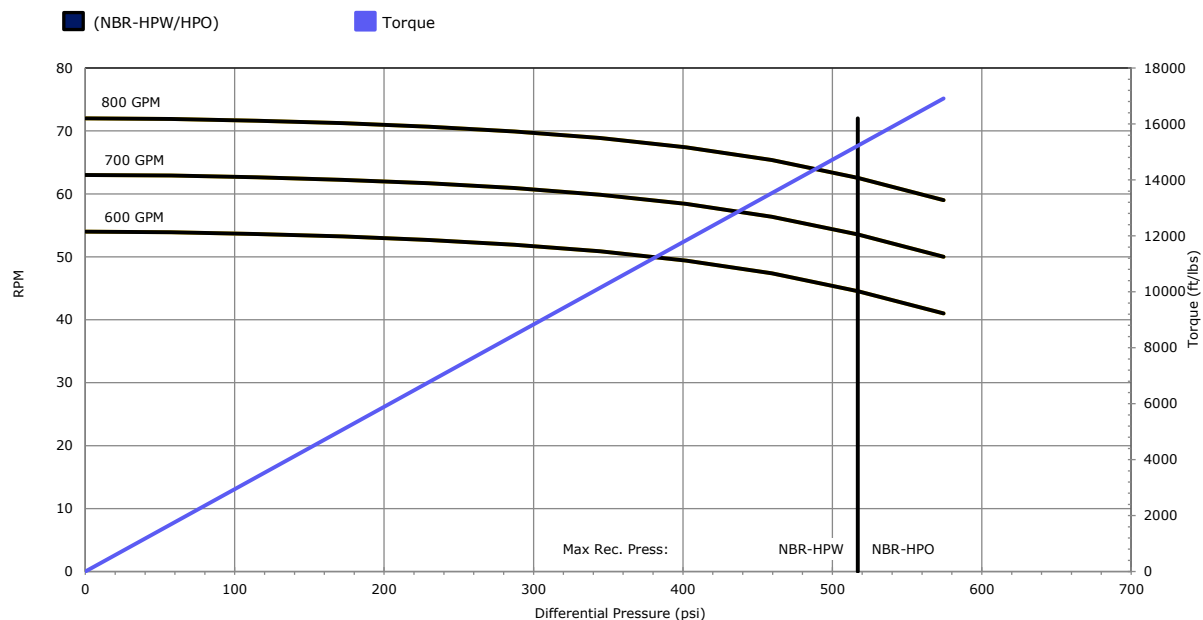
Stator Specifications	
	inches
Overall Length	228.00
Tube OD	7.75
Tube ID	6.25
Rubber Cutback Top/End	8.00 / 8.00
Weight	1192 lbs
Number of Stages	2.2
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPW & NBR-HPO

NBR-HPW (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	4.517	0.003	0.020	0.037	0.062	0.079
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	4.517	0.003	0.020	0.037	0.062	0.079
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	600 - 800
Speed Range (rpm)	50 - 70
Torque Slope (ft-lb/psi)	29.44
Rotation (rev/gal)	0.090
Off Bottom Pressure (psi)	70

Performance Details		NBR-HPW	NBR-HPO
Max Diff Press (psi)		520	520
Stall Diff Press (psi)		820	820
Max Torque (ft-lb)		15230	15230
Stall Torque (ft-lb)		23980	23980



<sup>1</sup> Coating options of chrome or tungsten carbide are available <sup>2</sup> Vector Gauge Readings at Room Temp 75°F <sup>3</sup> 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](http://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: AT775782.2**

Revised: 9/24/2020

Rotor Specifications	
	mm
Overall Length	5613.4
Contour Length	5410.2
Major Diameter	128.91
Eccentricity	7.05
Head diameter	120.65
Thread Form	3.50 API IF
Weight	473 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	5791.2
Tube OD	196.9
Tube ID	158.8
Rubber Cutback Top/End	203.0 / 203.0
Weight	541 kg
Number of Stages	2.2
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	NBR-HPW & NBR-HPO

NBR-HPW (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	114.73	0.08	0.85	1.23	1.62	2.01
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

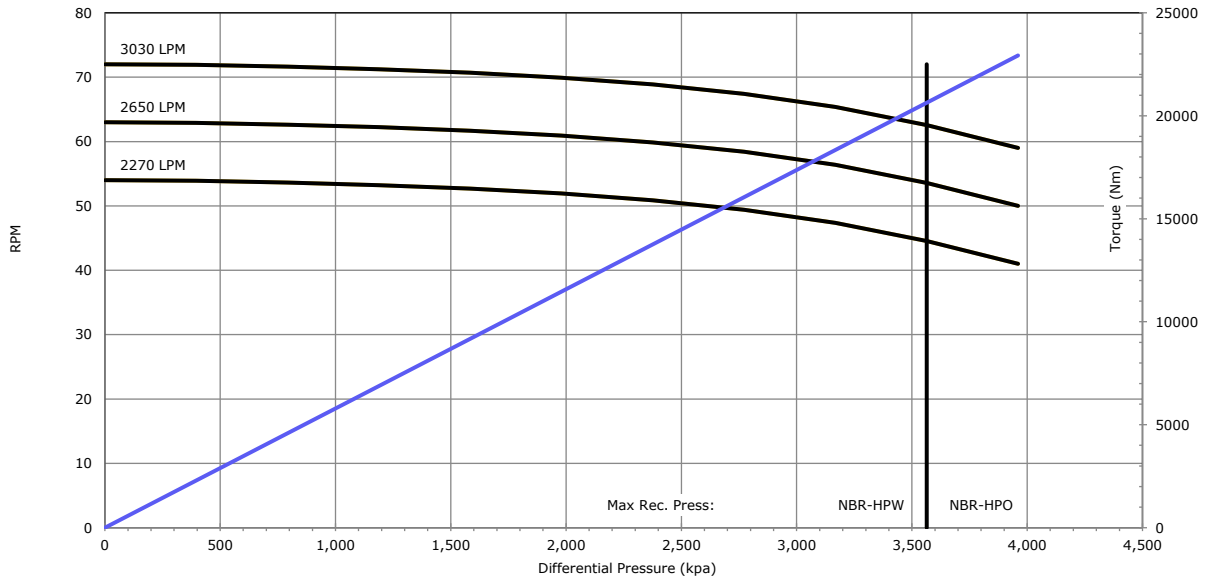
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	114.73	0.08	0.85	1.23	1.62	2.01
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	2270 - 3030
Speed Range (rpm)	50 - 70
Torque Slope (Nm/kpa)	5.79
Rotation (rev/Liter)	0.0238
Off Bottom Pressure (kpa)	500

Performance Details		
	NBR-HPW	NBR-HPO
Max Diff Press (kpa)	3600	3600
Stall Diff Press (kpa)	5600	5700
Max Torque (Nm)	20700	20700
Stall Torque (Nm)	32600	32600

■ (NBR-HPW/HPO)

■ Torque



<sup>1</sup> Coating options of chrome or tungsten carbide are available <sup>2</sup> Vector Gauge Readings at Room Temp 25°C <sup>3</sup> 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](http://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