

## POWER SECTION

**Model No: AT375564.0**

Revised: 9/3/2021

Rotor Specifications	
	inches
Overall Length	76.50
Contour Length	71.00
Major Diameter	2.288
Eccentricity	0.168
Head diameter	2.655
Thread Form	N/A
Weight	65 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	93.50
Tube OD	3.75
Tube ID	3.00
Rubber Cutback Top/End	6.00 / 18.00
Weight	117 lbs
Number of Stages	4.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

NBR-HPX/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	1.939	0.012	0.023	0.033	0.048	0.058
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

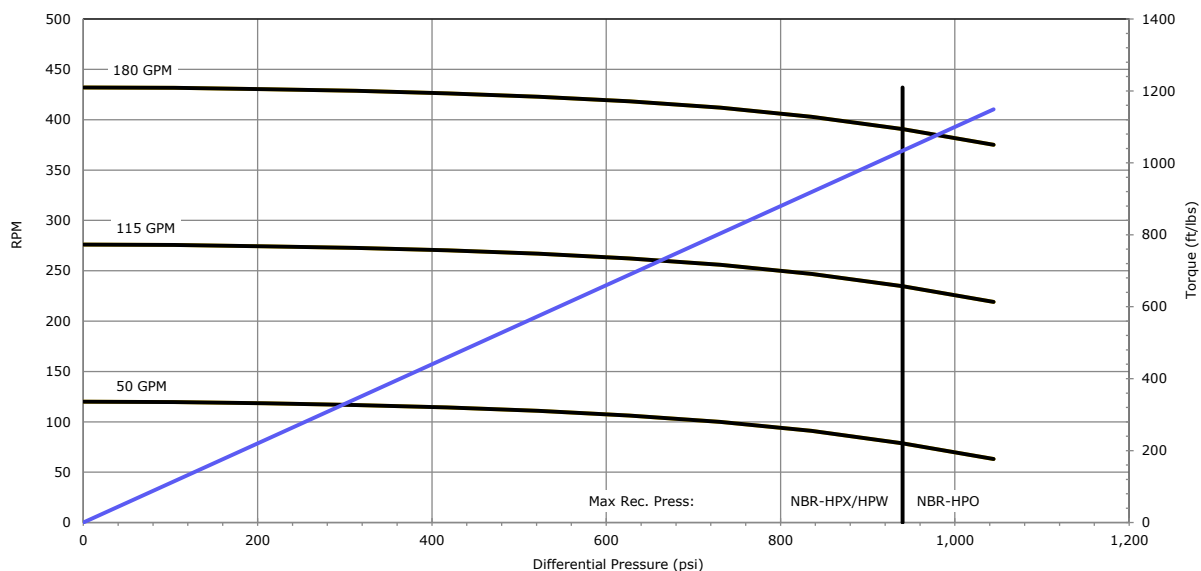
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	1.939	0.012	0.023	0.033	0.048	0.058
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	50 - 180
Speed Range (rpm)	120 - 430
Torque Slope (ft-lb/psi)	1.10
Rotation (rev/gal)	2.400
Off Bottom Pressure (psi)	70

Performance Details		
	NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)	940	940
Stall Diff Press (psi)	1490	1490
Max Torque (ft-lb)	1040	1040
Stall Torque (ft-lb)	1630	1630

■ (NBR-HPX/HPW/HPO)

■ Torque



<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-HPX/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: AT375564.0**

Revised: 9/3/2021

Rotor Specifications	
	mm
Overall Length	1943.1
Contour Length	1803.4
Major Diameter	58.12
Eccentricity	4.27
Head diameter	67.44
Thread Form	N/A
Weight	29 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	2374.9
Tube OD	95.3
Tube ID	76.2
Rubber Cutback Top/End	152.0 / 457.0
Weight	53 kg
Number of Stages	4.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

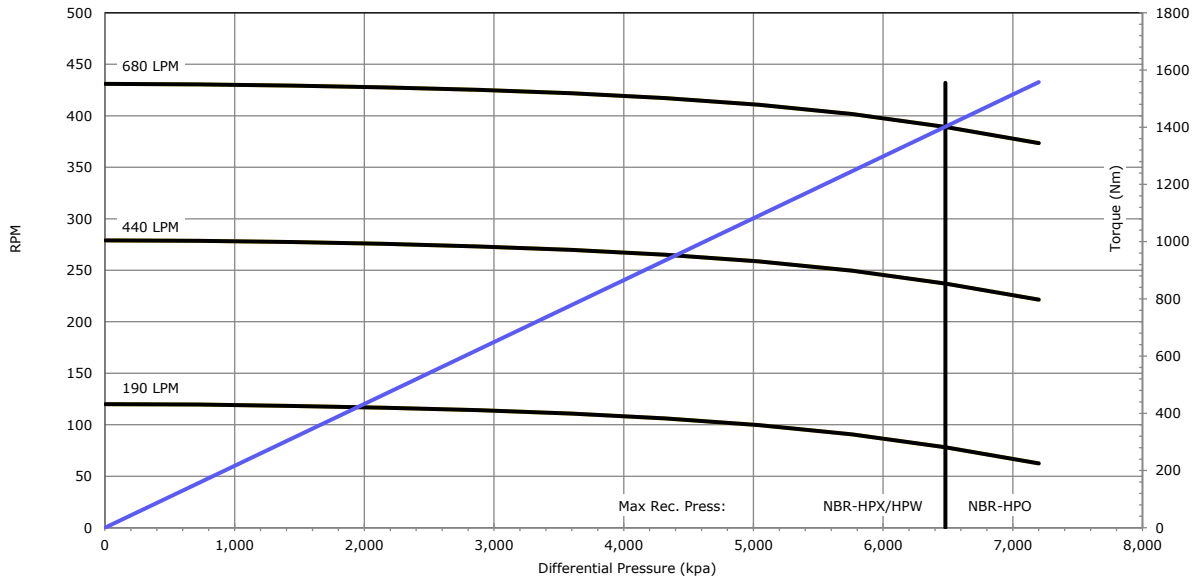
BR-HPX/HPW (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	49.25	0.32	0.78	1.01	1.24	1.47
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

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	49.25	0.32	0.78	1.01	1.24	1.47
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	190 - 680
Speed Range (rpm)	120 - 430
Torque Slope (Nm/kpa)	0.22
Rotation (rev/Liter)	0.6340
Off Bottom Pressure (kpa)	480

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		6500	6500
Stall Diff Press (kpa)		10200	10300
Max Torque (Nm)		1500	1500
Stall Torque (Nm)		2300	2300

■ (NBR-HPX/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-HPX/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.

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