

**POWER SECTION**

**Model No: AT337563.2**

Revised: 2/4/2021

Rotor Specifications	
	inches
Overall Length	90.00
Contour Length	84.00
Major Diameter	2.228
Eccentricity	0.161
Head diameter	2.250
Thread Form	N/A
Weight	74 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	94.00
Tube OD	3.38
Tube ID	2.75
Rubber Cutback Top/End	7.00 / 7.00
Weight	90 lbs
Number of Stages	3.2
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	1.902	0.004	0.010	0.015	0.023	0.029
.5 OS						
1.0 OS	1.909	-0.003	0.002	0.008	0.016	0.022
1.5 OS						
2.0 OS						
2.5 OS						

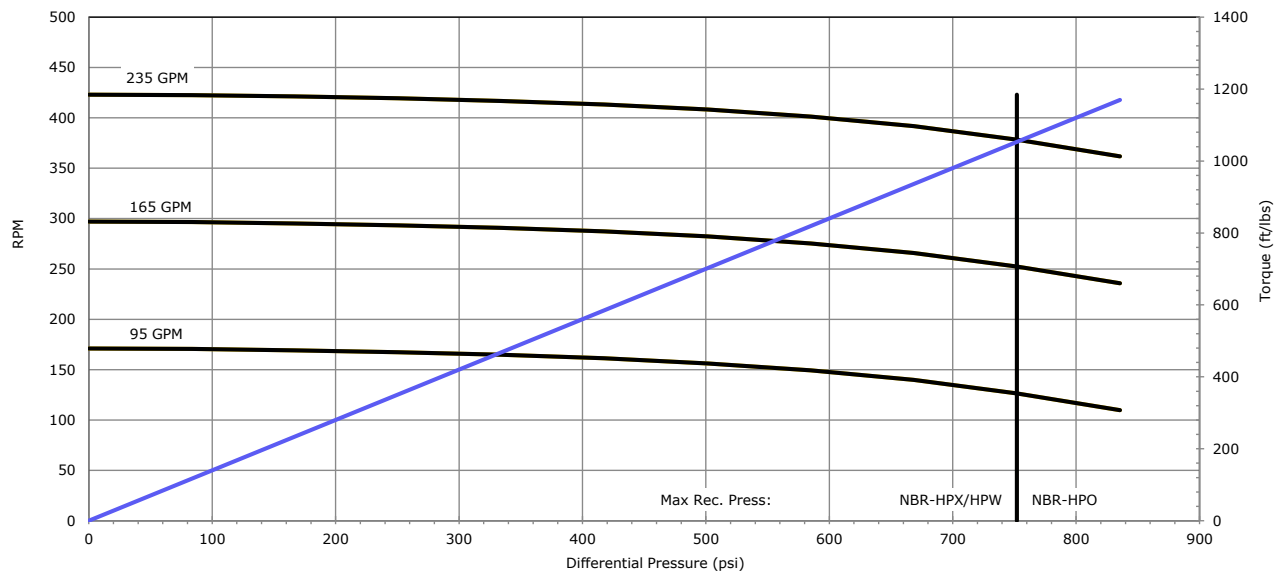
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	1.902	0.004	0.010	0.015	0.023	0.029
.5 OS						
1.0 OS	1.909	-0.003	0.002	0.008	0.016	0.022
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	95 - 235
Speed Range (rpm)	170 - 420
Torque Slope (ft-lb/psi)	1.40
Rotation (rev/gal)	1.800
Off Bottom Pressure (psi)	80

Performance Details		
	NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)	760	760
Stall Diff Press (psi)	1190	1190
Max Torque (ft-lb)	1060	1060
Stall Torque (ft-lb)	1660	1660

■ (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

Rotor Specifications	
	mm
Overall Length	2286.0
Contour Length	2133.6
Major Diameter	56.59
Eccentricity	4.09
Head diameter	57.15
Thread Form	N/A
Weight	34 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	2387.6
Tube OD	85.7
Tube ID	69.9
Rubber Cutback Top/End	178.0 / 178.0
Weight	41 kg
Number of Stages	3.2
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	48.31	0.10	0.35	0.48	0.61	0.73
.5 OS						
1.0 OS	48.49	-0.08	0.17	0.30	0.42	0.55
1.5 OS						
2.0 OS						
2.5 OS						

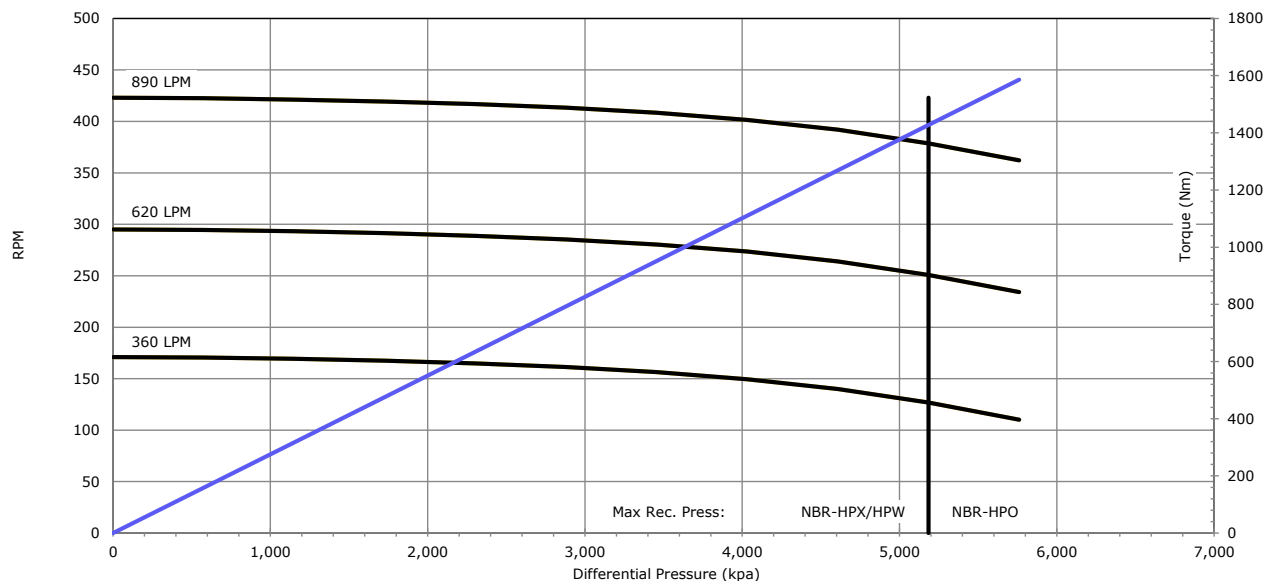
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	48.31	0.10	0.35	0.48	0.61	0.73
.5 OS						
1.0 OS	48.49	-0.08	0.17	0.30	0.42	0.55
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	360 - 890
Speed Range (rpm)	170 - 420
Torque Slope (Nm/kpa)	0.28
Rotation (rev/Liter)	0.4755
Off Bottom Pressure (kpa)	570

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		5200	5200
Stall Diff Press (kpa)		8200	8200
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

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