

POWER SECTION

Model No: AT375671.7

Revised: 2/4/2021

Rotor Specifications	
	inches
Overall Length	74.00
Contour Length	69.00
Major Diameter	2.316
Eccentricity	0.152
Head diameter	2.000
Thread Form	N/A
Weight	65 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	77.00
Tube OD	3.75
Tube ID	3.00
Rubber Cutback Top/End	6.00 / 6.00
Weight	92 lbs
Number of Stages	1.7
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

NBR-HPX/HPW (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	2.014	-0.001	0.006	0.013	0.024	0.031
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

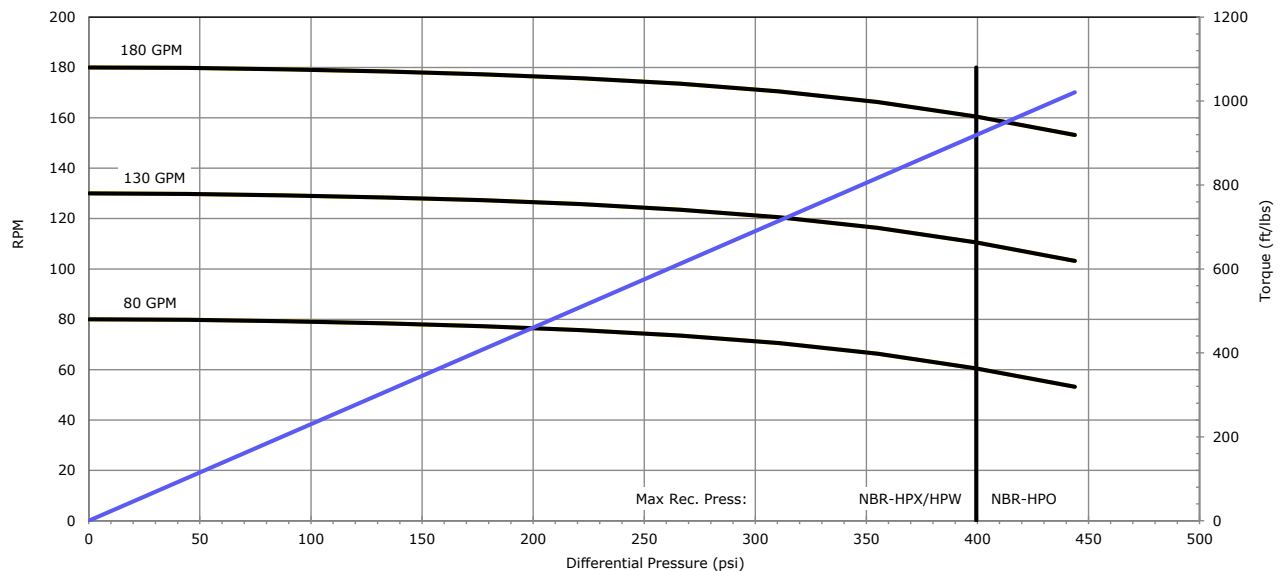
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	2.014	-0.001	0.006	0.013	0.024	0.031
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	80 - 180
Speed Range (rpm)	80 - 180
Torque Slope (ft-lb/psi)	2.30
Rotation (rev/gal)	1.000
Off Bottom Pressure (psi)	40

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)		400	400
Stall Diff Press (psi)		630	630
Max Torque (ft-lb)		920	920
Stall Torque (ft-lb)		1450	1450

■ (NBR-HPX/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-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 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: AT375671.7

Revised: 2/4/2021

Rotor Specifications	
	mm
Overall Length	1879.6
Contour Length	1752.6
Major Diameter	58.83
Eccentricity	3.85
Head diameter	50.80
Thread Form	N/A
Weight	29 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	1955.8
Tube OD	95.3
Tube ID	76.2
Rubber Cutback Top/End	152.0 / 152.0
Weight	42 kg
Number of Stages	1.7
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

BR-HPX/HPW (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	51.16	-0.04	0.29	0.46	0.62	0.78
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

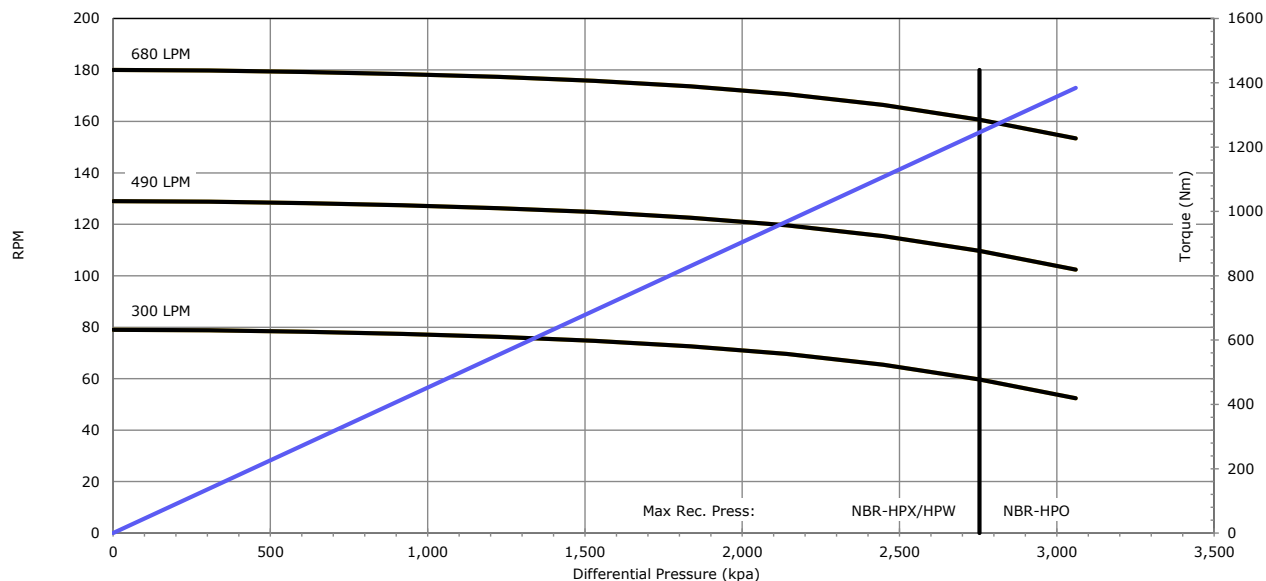
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	51.16	-0.04	0.29	0.46	0.62	0.78
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	300 - 680
Speed Range (rpm)	80 - 180
Torque Slope (Nm/kpa)	0.45
Rotation (rev/Liter)	0.2642
Off Bottom Pressure (kpa)	300

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		2800	2800
Stall Diff Press (kpa)		4300	4400
Max Torque (Nm)		1300	1300
Stall Torque (Nm)		2000	2000

■ (NBR-HPX/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-HPX/HPW/HPO

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