

POWER SECTION

Model No: AT337783.0

Revised: 2/4/2021

Rotor Specifications	
	inches
Overall Length	111.00
Contour Length	107.00
Major Diameter	1.964
Eccentricity	0.110
Head diameter	1.870
Thread Form	N/A
Weight	78 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	124.00
Tube OD	3.38
Tube ID	2.75
Rubber Cutback Top/End	6.00 / 6.00
Weight	119 lbs
Number of Stages	3.0
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	1.751	-0.006	-0.001	0.004	0.013	0.018
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

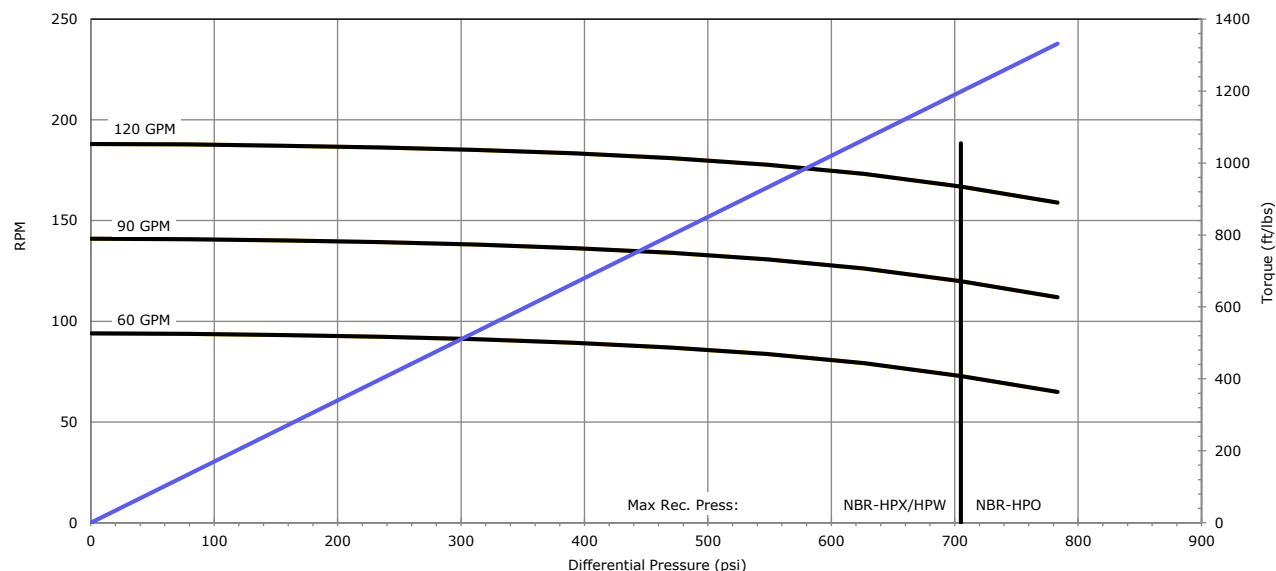
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	1.751	-0.006	-0.001	0.004	0.013	0.018
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	60 - 120
Speed Range (rpm)	90 - 190
Torque Slope (ft-lb/psi)	1.70
Rotation (rev/gal)	1.570
Off Bottom Pressure (psi)	40

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)		710	710
Stall Diff Press (psi)		1120	1120
Max Torque (ft-lb)		1200	1200
Stall Torque (ft-lb)		1890	1890

■ (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: AT337783.0

Revised: 2/4/2021

Rotor Specifications	
	mm
Overall Length	2819.4
Contour Length	2717.8
Major Diameter	49.89
Eccentricity	2.79
Head diameter	47.50
Thread Form	N/A
Weight	35 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	3149.6
Tube OD	85.7
Tube ID	69.9
Rubber Cutback Top/End	152.0 / 152.0
Weight	54 kg
Number of Stages	3.0
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	44.48	-0.17	0.09	0.21	0.34	0.46
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

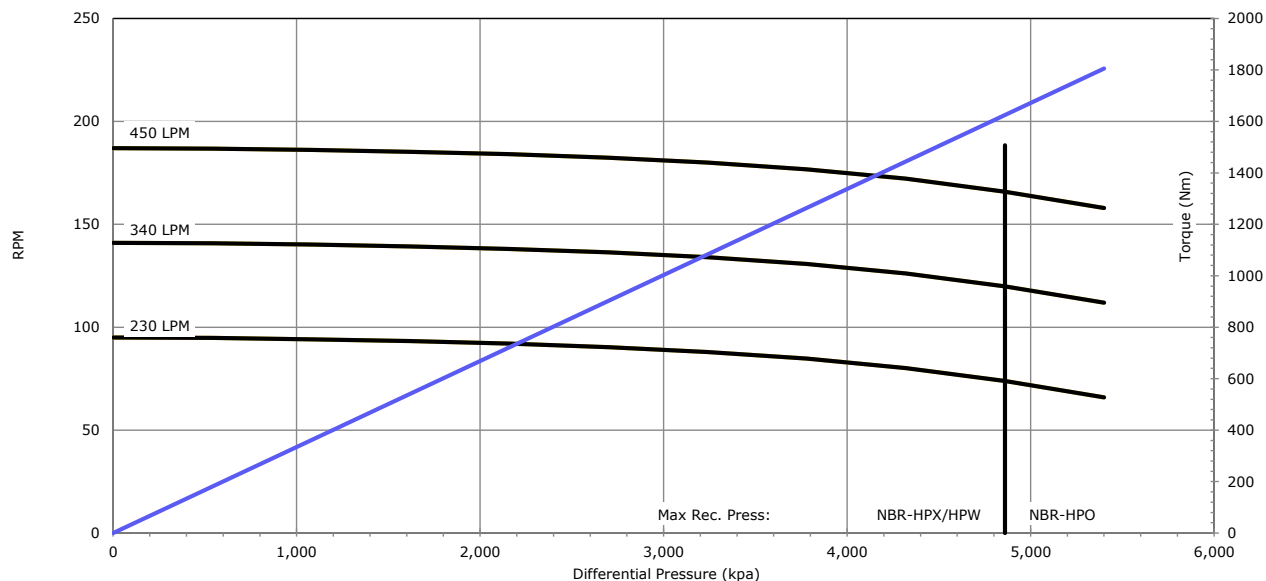
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	44.48	-0.17	0.09	0.21	0.34	0.46
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	230 - 450
Speed Range (rpm)	90 - 190
Torque Slope (Nm/kpa)	0.33
Rotation (rev/Liter)	0.4148
Off Bottom Pressure (kpa)	280

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		4900	4900
Stall Diff Press (kpa)		7700	7700
Max Torque (Nm)		1700	1700
Stall Torque (Nm)		2600	2600

■ (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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