

POWER SECTION

Model No: AT312454.0

Revised: 10/18/2018

Rotor Specifications	
	inches
Overall Length	103.63
Contour Length	99.63
Major Diameter	1.843
Eccentricity	0.156
Head diameter	1.800
Thread Form	N/A
Weight	56 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	105.63
Tube OD	3.13
Tube ID	2.38
Rubber Cutback Top/End	4.00 / 4.00
Weight	106 lbs
Number of Stages	4.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPW & NBR-HPX

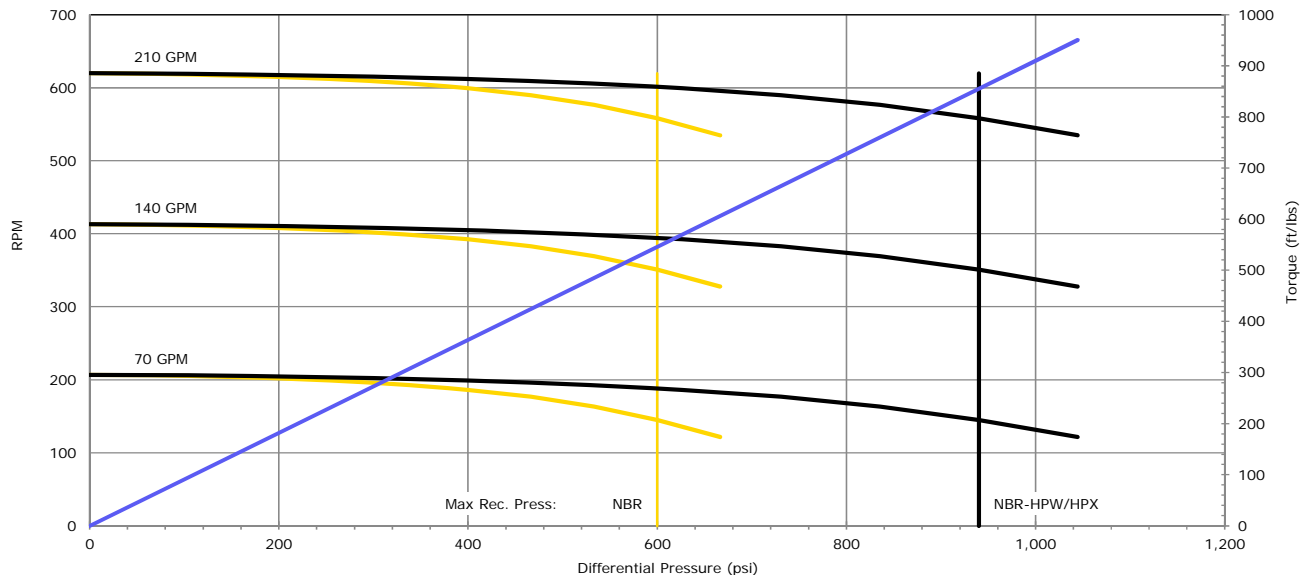
NBR (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	1.517	0.014	0.019	0.024	0.032	0.037
.5 OS	1.525	0.006	0.011	0.016	0.023	0.028
1.0 OS	1.538	-0.008	-0.002	0.003	0.010	0.015
1.5 OS						
2.0 OS						
2.5 OS						

NBR-HPW/HPX (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	1.517	0.014	0.019	0.024	0.032	0.037
.5 OS	1.525	0.006	0.011	0.016	0.023	0.028
1.0 OS	1.538	-0.008	-0.002	0.003	0.010	0.015
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	70 - 210
Speed Range (rpm)	210 - 620
Torque Slope (ft-lb/psi)	0.91
Rotation (rev/gal)	2.950
Off Bottom Pressure (psi)	100

Performance Details		NBR	NBR-HPW/HPX
Max Diff Press (psi)		600	940
Stall Diff Press (psi)		900	1490
Max Torque (ft-lb)		550	860
Stall Torque (ft-lb)		820	1350

■ (NBR) ■ (NBR-HPW/HPX) ■ Torque



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 75°F ³ BHCT Exceeding 275°F will void warranty for NBR (320°F for HPW/HPX)

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

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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