

POWER SECTION

Model No: AT500678.8 OPTI

Revised: 10/26/2022

Rotor Specifications	
	inches
Overall Length	265.00
Contour Length	259.00
Major Diameter	3.298
Eccentricity	0.217
Head diameter	3.400
Thread Form	1.375-6 SA
Weight	496 lbs
Material	17-4 PH ¹

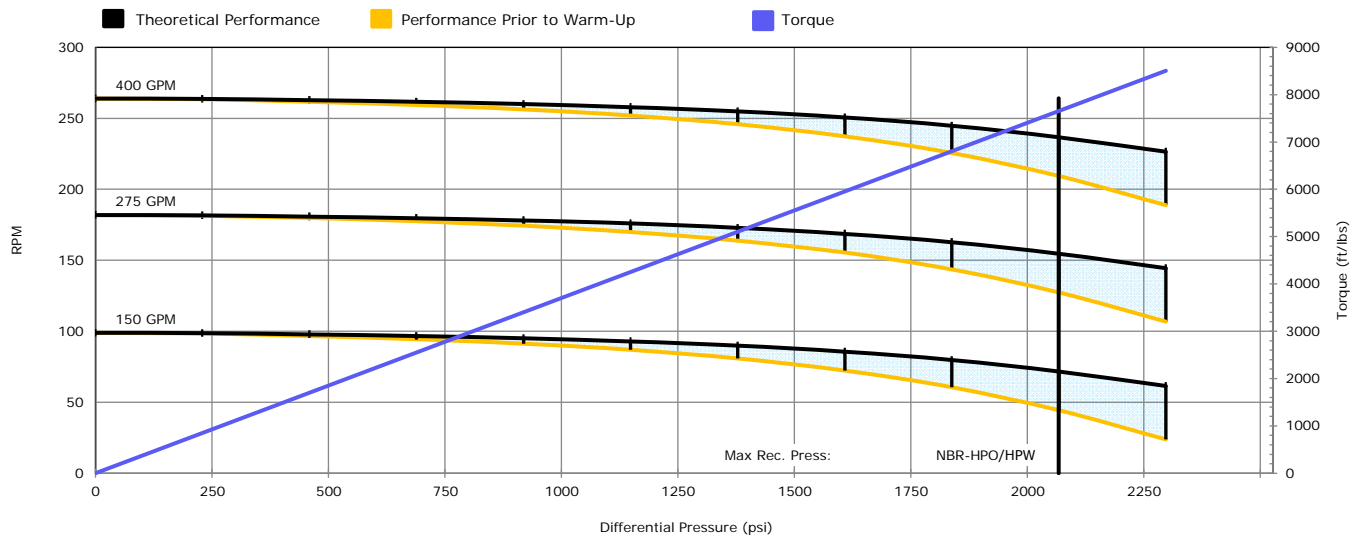
Stator Specifications	
	inches
Overall Length	275.00
Tube OD	5.00
Tube ID	4.00
Rubber Cutback Top/End	8.00 / 8.00
Weight	519 lbs
Number of Stages	8.8
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPO/NBR-HPW

Performance Specifications	
Flow Range (gpm)	150 - 400
Speed Range (rpm)	100 - 260
Torque Slope (ft-lb/psi)	3.70
Rotation (rev/gal)	0.660
Off Bottom Pressure (psi)	120

Performance Details	
	NBR-HPO/NBR-HPW
Max Diff Press (psi)	2070
Stall Diff Press (psi)	3260
Max Torque (ft-lb)	7660
Stall Torque (ft-lb)	12060

Size	Minor ²	Fit @ 75°F	Stator Sizing and Fit Chart ³	
.5 US	-	-	-	Fit Not Available
STD	2.860	0.004	70°F	110°F OPTIMAL RANGE 190°F 230°F
.5 OS	2.872	-0.008	120°F	150°F OPTIMAL RANGE 240°F 270°F
1.0 OS	2.884	-0.020	160°F	200°F OPTIMAL RANGE 280°F 320°F
1.5 OS	2.891	-0.027	190°F	230°F OPTIMAL RANGE 310°F 350°F ³
2.0 OS	-	-	-	Fit Not Available
2.5 OS	-	-	-	Fit Not Available

Minor Diameter Change = 0.001" per 3.7 °F ΔFit = 0.00027" per 1°F



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 75°F (measured from the top end) ³ Chart temp shows potential of the individual fit and not necessarily the elastomer. BHCT Exceeding 320°F will void warranty for NBR-HPO/NBR-HPW.
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
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