

POWER SECTION

Model No: AT675568.2 OPTI

Revised: 10/26/2022

Rotor Specifications	
	inches
Overall Length	233.00
Contour Length	226.00
Major Diameter	4.371
Eccentricity	0.335
Head diameter	4.500
Thread Form	2.875 SLIMLINE H-90
Weight	717 lbs
Material	17-4 PH ¹

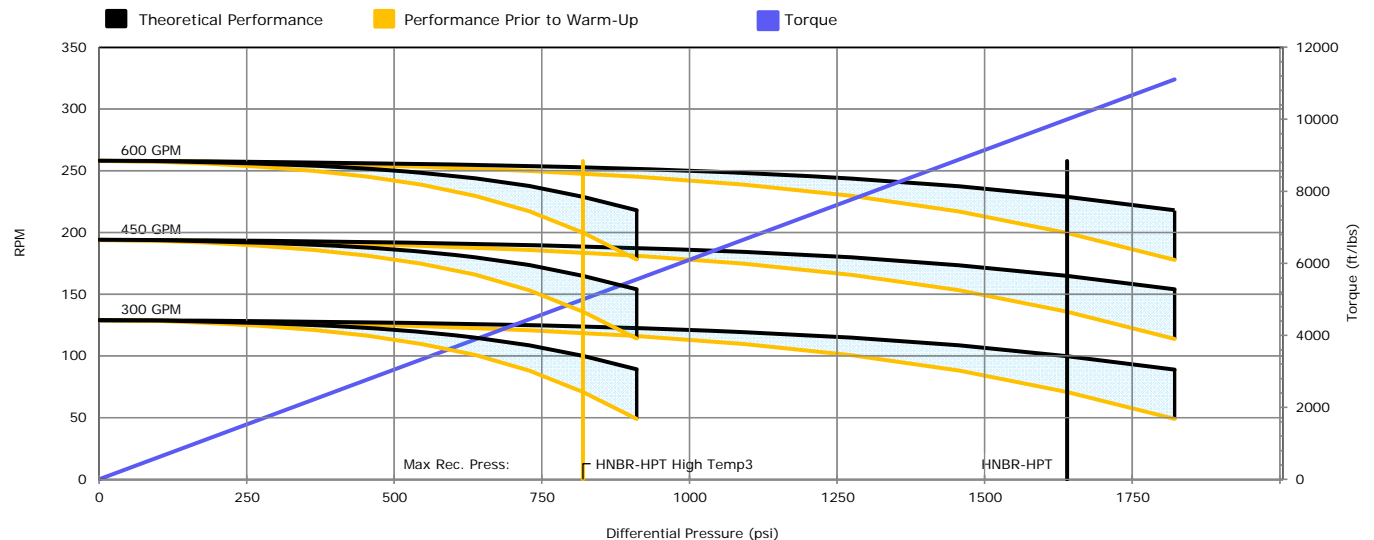
Performance Specifications	
Flow Range (gpm)	300 - 600
Speed Range (rpm)	130 - 260
Torque Slope (ft-lb/psi)	6.10
Rotation (rev/gal)	0.430
Off Bottom Pressure (psi)	150

Stator Specifications	
	inches
Overall Length	246.00
Tube OD	6.75
Tube ID	5.50
Rubber Cutback Top/End	11.00 / 11.00
Weight	1107 lbs
Number of Stages	8.2
Tube Material	4140/4142 Alloy Steel
Rubber Options	HNBR-HPT

Performance Details		
	HNBR-HPT High Temp ²	HNBR-HPT
Max Diff Press (psi)	820	1640
Stall Diff Press (psi)	1230	2590
Max Torque (ft-lb)	5010	10010
Stall Torque (ft-lb)	7510	15760

Size	Minor ²	Fit @ 75°F	Stator Sizing and Fit Chart ⁴	
.5 US	-	-	-	Fit Not Available
STD	-	-	-	Fit Not Available
.5 OS	3.706	-0.005	120°F	160°F OPTIMAL RANGE 240°F 280°F
1.0 OS	3.718	-0.017	150°F	190°F OPTIMAL RANGE 280°F 310°F
1.5 OS	3.731	-0.030	190°F	230°F OPTIMAL RANGE 310°F 350°F
2.0 OS	3.743	-0.042	230°F	260°F OPTIMAL RANGE 350°F 380°F ⁴
2.5 OS	-	-	-	Fit Not Available

Minor Diameter Change = 0.001" per 2.8 °F ΔFit = 0.00036" 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 HPT High Temp parameters are recommended when BHCT exceeds 300°F. It is recommended to run stator for no more than 15 hours at BHCT above 375°F. ⁴ Chart temp shows potential of the individual fit and not necessarily the elastomer. BHCT exceeding 430°F will void warranty. 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: AT675568.2 OPTI

Revised: 10/26/2022

Rotor Specifications	
	mm
Overall Length	5918.2
Contour Length	5740.4
Major Diameter	111.02
Eccentricity	8.51
Head diameter	114.30
Thread Form	2.875 SLIMLINE H-90
Weight	325 kg
Material	17-4 PH ¹

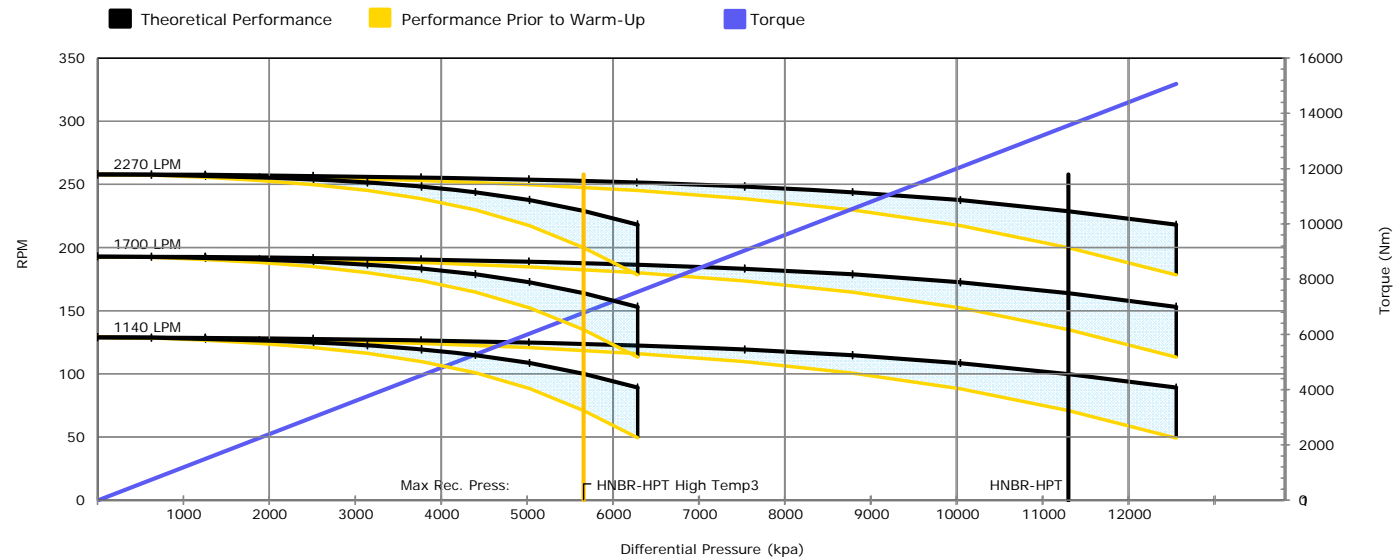
Stator Specifications	
	mm
Overall Length	6248.4
Tube OD	171.5
Tube ID	139.7
Rubber Cutback Top/End	279.0 / 279.0
Weight	502 kg
Number of Stages	8.2
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	HNBR-HPT

Performance Specifications	
Flow Range (lpm)	1140 - 2270
Speed Range (rpm)	130 - 260
Torque Slope (Nm/kpa)	1.20
Rotation (rev/Liter)	0.1136
Off Bottom Pressure (kpa)	1050

Performance Details		
	HNBR-HPT High Temp ³	HNBR-HPT
Max Diff Press (kpa)	5700	11400
Stall Diff Press (kpa)	8500	17900
Max Torque (Nm)	6800	13600
Stall Torque (Nm)	10200	21400

Size	Minor ²	Fit@25°C	Stator Sizing and Fit Chart ⁴	
.5 US	-	-	-	Fit Not Available
STD	-	-	-	Fit Not Available
.5 OS	94.132	-0.127	50°C	70°C OPTIMAL RANGE 120°C 140°C
1.0 OS	94.437	-0.432	70°C	90°C OPTIMAL RANGE 140°C 150°C
1.5 OS	94.767	-0.762	90°C	110°C OPTIMAL RANGE 150°C 180°C
2.0 OS	95.072	-1.067	110°C	130°C OPTIMAL RANGE 180°C 190°C ⁴
2.5 OS	-	-	-	Fit Not Available

Minor Diameter Change = 0.025 mm per 1.56 °C ΔFit = 0.0162 mm per 1°C



¹ Coating options of chrome or tungsten carbide are available. ² Vector Gauge Readings at Room Temp 25°C (measured from the top end) ³ HPT High Temp parameters are recommended when BHCT exceeds 150°C. It is recommended to run stator for no more than 15 hours at BHCT above 190°C. ⁴ Chart temp shows potential of the individual fit and not necessarily the elastomer. BHCT exceeding 220°C will void warranty. 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.

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