Abaco DRILLING TECHNOLOGIES

POWER SECTION

Model No: AT675786.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	223.00 in.
Contour Length	216.00 in.
Major Diameter	4.520 in.
Eccentricity	0.256 in.
Head Diameter	4.500 in.
Thread Form	2.875 API REG
Weight	831 lbs.
Material	17-4 PH[1]

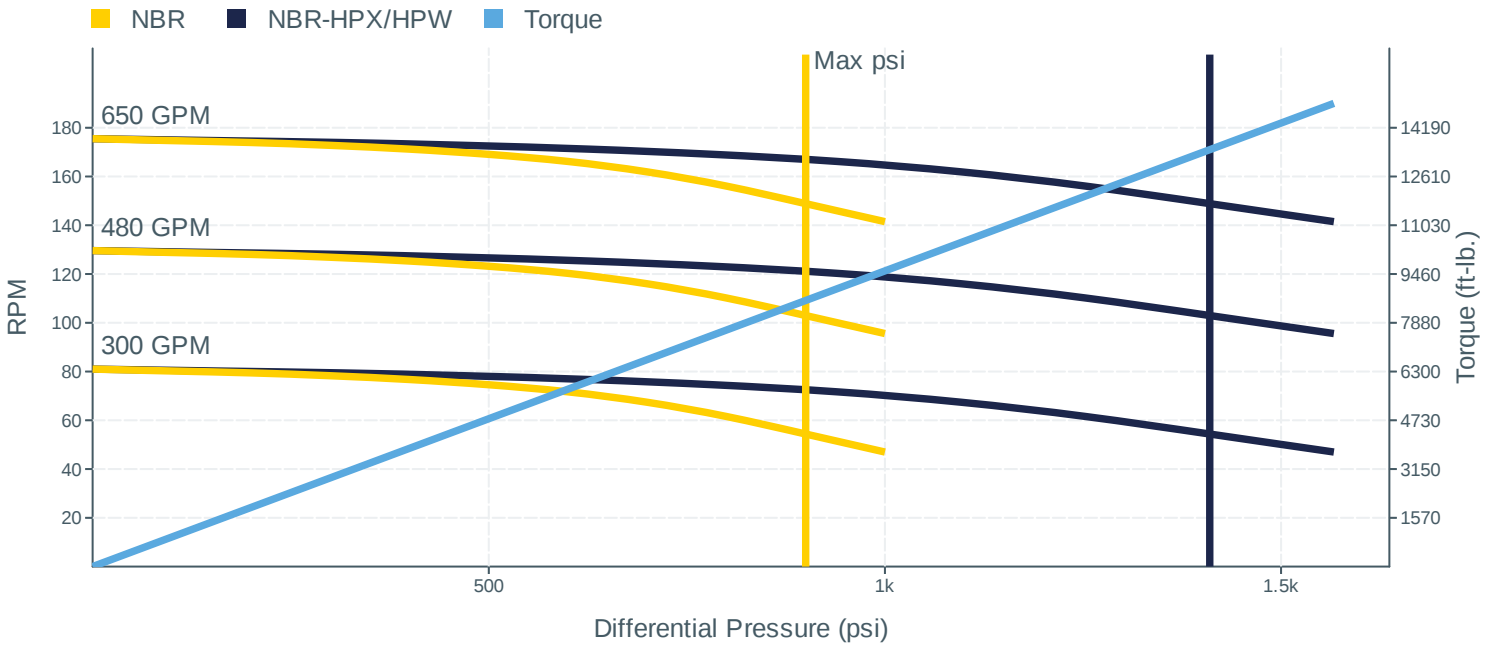
Stator Specification	
Overall Length	235.00 in.
Tube OD	6.75 in.
Tube ID	5.50 in.
Rubber Cutback Top/End	8/8 in.
Weight	903 lbs.
Number of Stages	6.0 in.
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	--	--	--	--	--	--
STD	3.994	0.014	0.028	0.041	0.061	0.075
0.5 OS	4.009	-0.001	0.012	0.026	0.046	0.059
1 OS	4.021	-0.013	0.000	0.014	0.034	0.047
1.5 OS	4.028	-0.020	-0.007	0.006	0.026	0.040
2 OS	4.039	-0.031	-0.018	-0.005	0.015	0.028
2.5 OS	--	--	--	--	--	--

NBR-HPX/HPW (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	--	--	--	--	--	--
STD	3.989	0.019	0.033	0.046	0.067	0.080
0.5 OS	4.004	0.004	0.017	0.031	0.051	0.065
1 OS	4.016	-0.008	0.005	0.019	0.039	0.052
1.5 OS	4.025	-0.017	-0.004	0.010	0.029	0.043
2 OS	4.036	-0.028	-0.015	-0.002	0.018	0.031
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	300 - 650 GPM
Speed Range	80 - 180 RPM
Torque Slope	9.06 ft-lb./psi
Rotation	0.270 rev/gal
Off Bottom Pressure	110 psi

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	900 psi	1410 psi
Stall Diff. Press.	1350 psi	2230 psi
Max Torque	8160 ft-lb.	12780 ft-lb.
Stall Torque	12240 ft-lb.	20120 ft-lb.



[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 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
UAE	Sales & Distribution	Building #57 Oilfield Supply Center, PO Box 191909, JAFZA, Dubai, UAE - Tel: +971 4 8708600

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Abaco DRILLING TECHNOLOGIES

POWER SECTION – METRIC

Model No: AT675786.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	5664.2 mm
Contour Length	5486.4 mm
Major Diameter	114.80 mm
Eccentricity	6.50 mm
Head Diameter	114.30 mm
Thread Form	2.875 API REG
Weight	377 kgs
Material	17-4 PH[1]

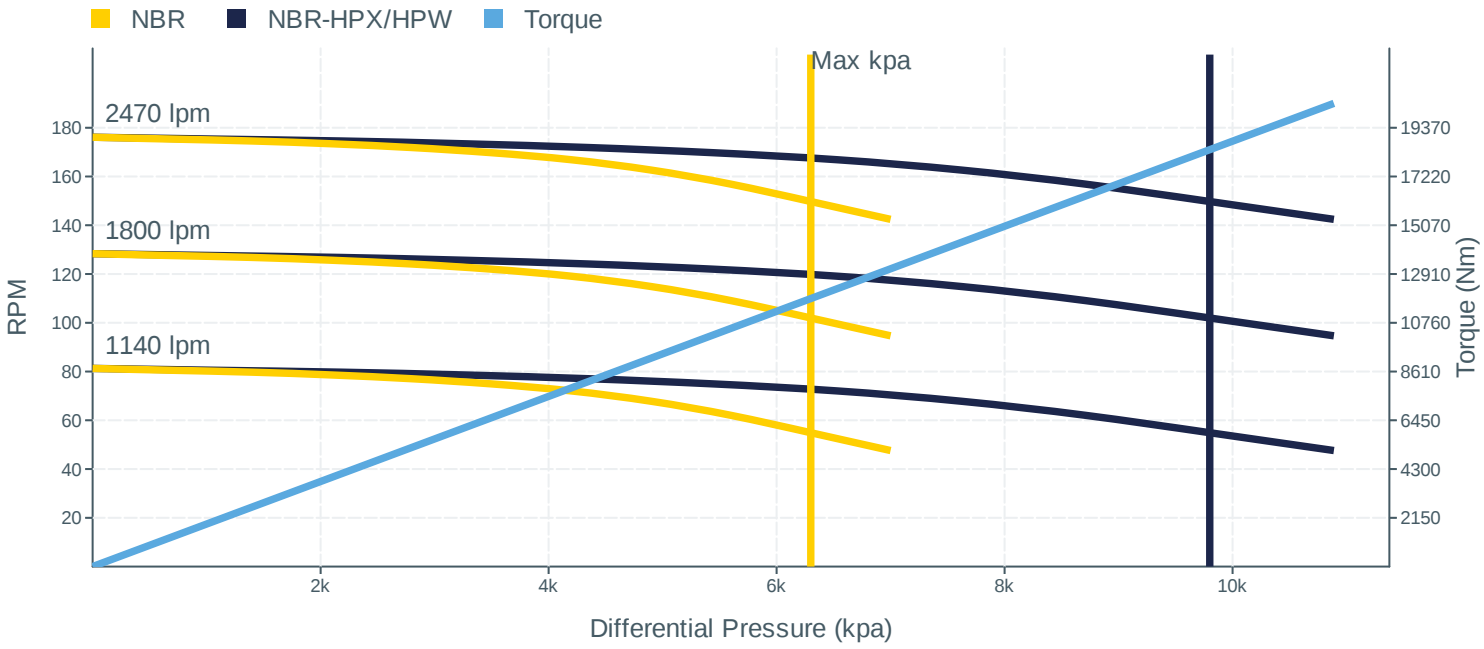
Stator Specification	
Overall Length	5969.0 mm
Tube OD	171.5 mm
Tube ID	139.7 mm
Rubber Cutback Top/End	203.2/203.2 mm
Weight	410 kgs
Number of Stages	6.0 mm
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	--	--	--	--	--	--
STD	101.45	0.36	0.71	1.04	1.55	1.90
0.5 OS	101.83	-0.03	0.30	0.66	1.17	1.50
1 OS	102.13	-0.33	0.00	0.36	0.86	1.19
1.5 OS	102.31	-0.51	-0.18	0.15	0.66	1.02
2 OS	102.59	-0.79	-0.46	-0.13	0.38	0.71
2.5 OS	--	--	--	--	--	--

NBR-HPX/HPW (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	--	--	--	--	--	--
STD	101.32	0.48	0.84	1.17	1.70	2.03
0.5 OS	101.70	0.10	0.43	0.79	1.30	1.65
1 OS	102.01	-0.20	0.13	0.48	0.99	1.32
1.5 OS	102.24	-0.43	-0.10	0.25	0.74	1.09
2 OS	102.51	-0.71	-0.38	-0.05	0.46	0.79
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	1140 - 2470 lpm
Speed Range	80 - 180 RPM
Torque Slope	1.78 Nm/kpa
Rotation	0.0713 rev/liter
Off Bottom Pressure	760 kpa

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	6300 kpa	9800 kpa
Stall Diff. Press.	9400 kpa	15400 kpa
Max Torque	11100 Nm	17400 Nm
Stall Torque	16600 Nm	27300 Nm



[1] Coating options of chrome or tungsten carbide are available [2] Vector Gauge Readings at Room Temp 25°C [3] BHCT Exceeding 135°C will void warranty for NBR (160°C for HPW/HPX)

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