Abaco DRILLING TECHNOLOGIES

POWER SECTION

Model No: AT800784.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	196.25 in.
Contour Length	188.25 in.
Major Diameter	5.186 in.
Eccentricity	0.293 in.
Head Diameter	4.750 in.
Thread Form	3.50 API REG
Weight	956 lbs.
Material	17-4 PH[1]

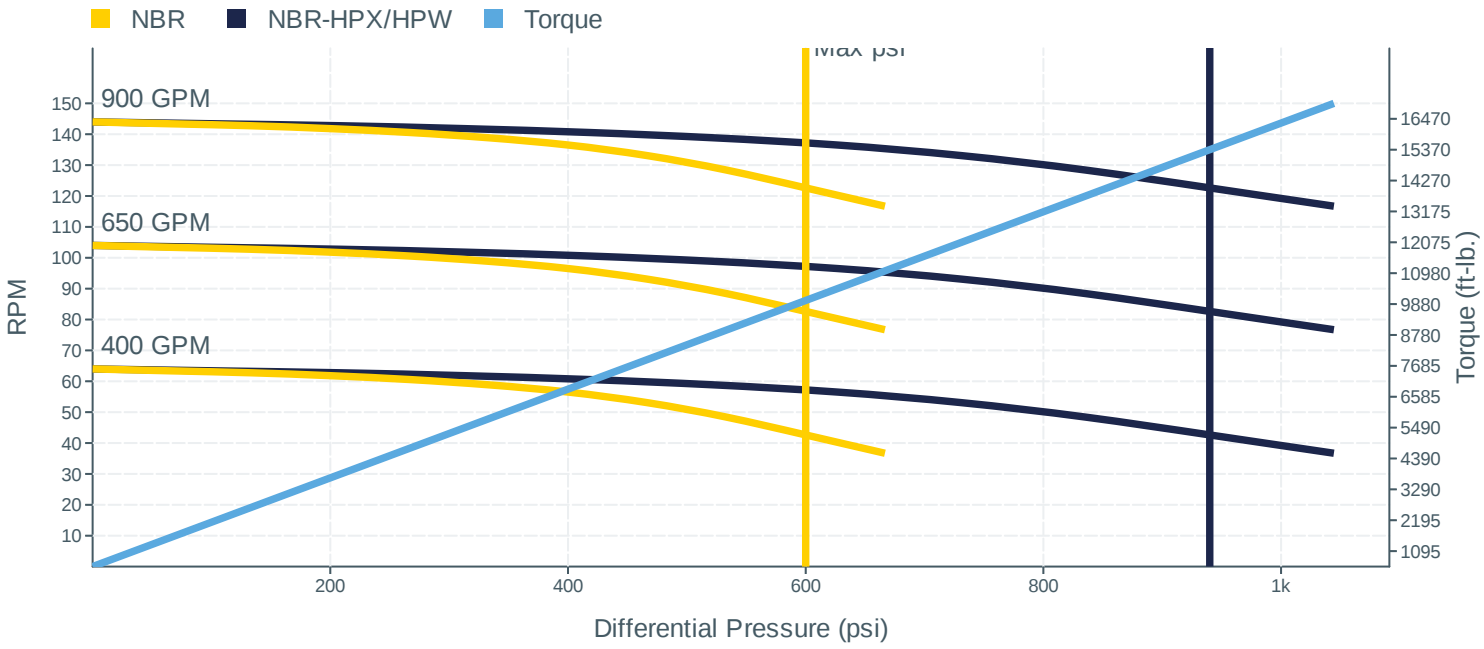
Stator Specification	
Overall Length	203.25 in.
Tube OD	8.00 in.
Tube ID	6.25 in.
Rubber Cutback Top/End	8/8 in.
Weight	1212 lbs.
Number of Stages	4.0 in.
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	4.576	0.024	0.041	0.057	0.083	0.099
STD	4.592	0.008	0.025	0.041	0.066	0.083
0.5 OS	4.607	-0.007	0.009	0.026	0.051	0.067
1 OS	4.622	-0.022	-0.006	0.011	0.035	0.051
1.5 OS	4.637	-0.037	-0.021	-0.005	0.019	0.036
2 OS	--	--	--	--	--	--
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	4.571	0.029	0.046	0.063	0.088	0.105
STD	4.587	0.013	0.030	0.046	0.071	0.088
0.5 OS	4.602	-0.002	0.014	0.031	0.056	0.072
1 OS	4.617	-0.017	-0.001	0.016	0.040	0.056
1.5 OS	4.632	-0.032	-0.016	0.000	0.025	0.041
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	400 - 900 GPM
Speed Range	60 - 140 RPM
Torque Slope	15.77 ft-lb./psi
Rotation	0.160 rev/gal
Off Bottom Pressure	100 psi

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	600 psi	940 psi
Stall Diff. Press.	900 psi	1490 psi
Max Torque	9470 ft-lb.	14830 ft-lb.
Stall Torque	14200 ft-lb.	23350 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: AT800784.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	4984.8 mm
Contour Length	4781.6 mm
Major Diameter	131.70 mm
Eccentricity	7.40 mm
Head Diameter	120.70 mm
Thread Form	3.50 API REG
Weight	434 kgs
Material	17-4 PH[1]

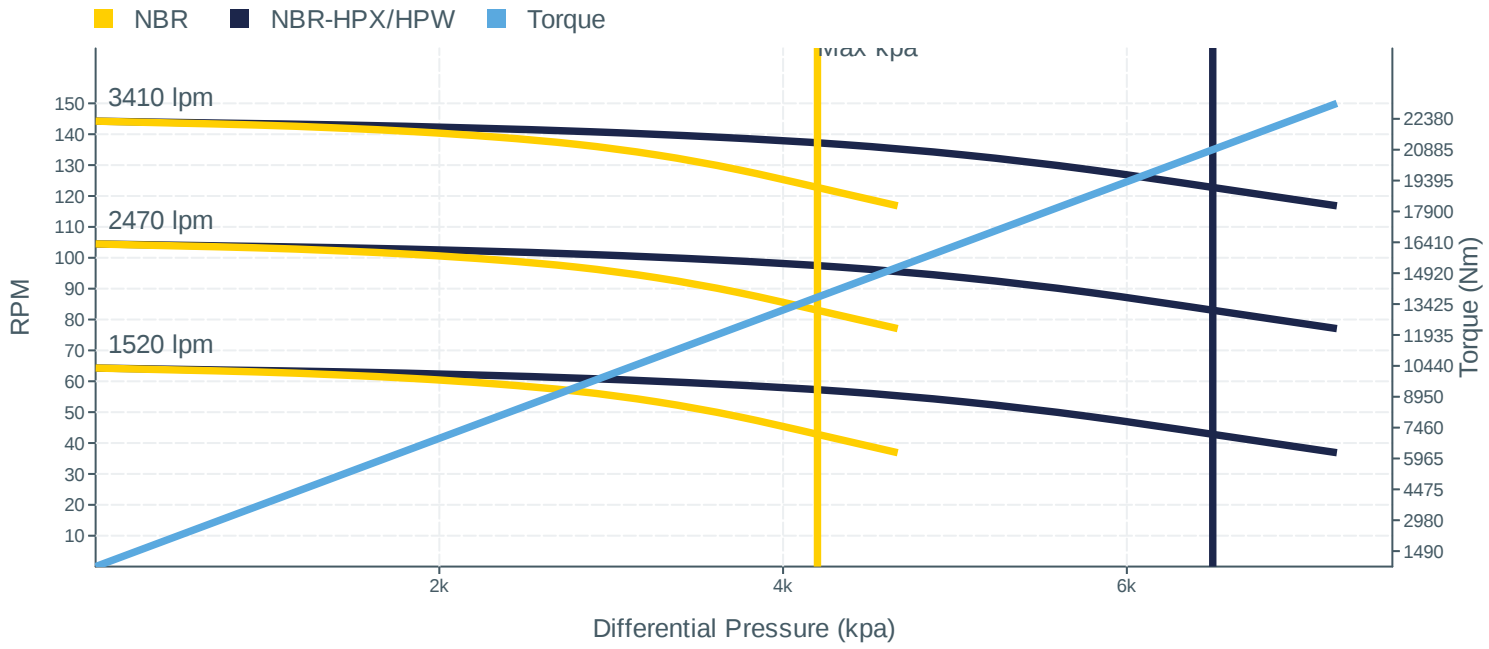
Stator Specification	
Overall Length	5162.5 mm
Tube OD	203.2 mm
Tube ID	158.8 mm
Rubber Cutback Top/End	203.2/203.2 mm
Weight	550 kgs
Number of Stages	4.0 mm
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	116.23	0.61	1.04	1.45	2.11	2.51
STD	116.64	0.20	0.64	1.04	1.68	2.11
0.5 OS	117.02	-0.18	0.23	0.66	1.30	1.70
1 OS	117.40	-0.56	-0.15	0.28	0.89	1.30
1.5 OS	117.78	-0.94	-0.53	-0.13	0.48	0.91
2 OS	--	--	--	--	--	--
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	116.10	0.74	1.17	1.60	2.24	2.67
STD	116.51	0.33	0.76	1.17	1.80	2.24
0.5 OS	116.89	-0.05	0.36	0.79	1.42	1.83
1 OS	117.27	-0.43	-0.03	0.41	1.02	1.42
1.5 OS	117.65	-0.81	-0.41	0.00	0.64	1.04
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	1520 - 3410 lpm
Speed Range	60 - 140 RPM
Torque Slope	3.10 Nm/kpa
Rotation	0.0423 rev/liter
Off Bottom Pressure	690 kpa

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	4200 kpa	6500 kpa
Stall Diff. Press.	6300 kpa	10300 kpa
Max Torque	12900 Nm	20100 Nm
Stall Torque	19300 Nm	31700 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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