Abaco DRILLING TECHNOLOGIES

POWER SECTION

Model No: AT962675.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	202.00 in.
Contour Length	195.00 in.
Major Diameter	6.403 in.
Eccentricity	0.428 in.
Head Diameter	5.500 in.
Thread Form	4.00 API FH
Weight	1378 lbs.
Material	17-4 PH[1]

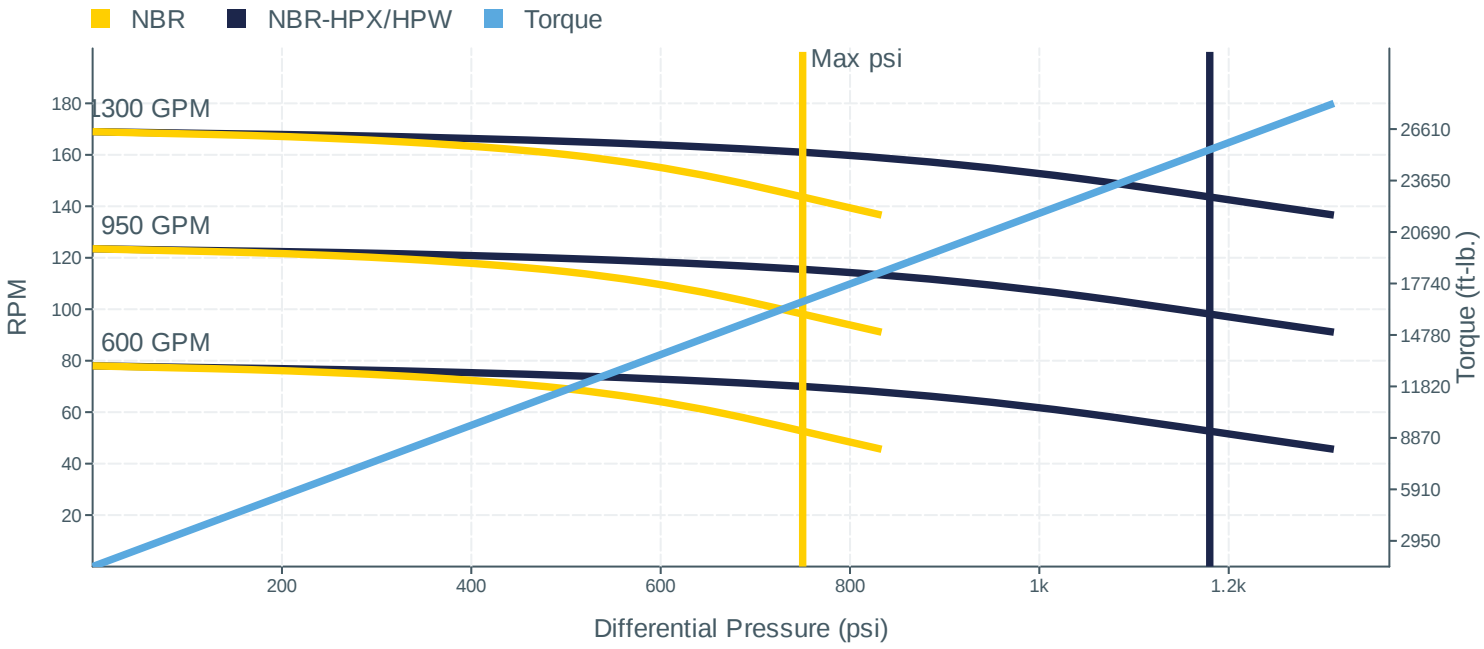
Stator Specification	
Overall Length	218.00 in.
Tube OD	9.63 in.
Tube ID	7.88 in.
Rubber Cutback Top/End	8/8 in.
Weight	1676 lbs.
Number of Stages	5.0 in.
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	--	--	--	--	--	--
STD	5.539	0.008	0.032	0.055	0.090	0.114
0.5 OS	5.559	-0.012	0.012	0.035	0.070	0.093
1 OS	5.577	-0.030	-0.006	0.017	0.051	0.074
1.5 OS	--	--	--	--	--	--
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	--	--	--	--	--	--
STD	5.536	0.011	0.035	0.058	0.094	0.117
0.5 OS	5.556	-0.009	0.015	0.038	0.073	0.096
1 OS	5.575	-0.028	-0.004	0.019	0.053	0.076
1.5 OS	--	--	--	--	--	--
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	600 - 1300 GPM
Speed Range	80 - 170 RPM
Torque Slope	20.30 ft-lb./psi
Rotation	0.130 rev/gal
Off Bottom Pressure	140 psi

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	750 psi	1180 psi
Stall Diff. Press.	1130 psi	1860 psi
Max Torque	15230 ft-lb.	23860 ft-lb.
Stall Torque	22840 ft-lb.	37570 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: AT962675.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	5130.8 mm
Contour Length	4953.0 mm
Major Diameter	162.60 mm
Eccentricity	10.90 mm
Head Diameter	139.70 mm
Thread Form	4.00 API FH
Weight	625 kgs
Material	17-4 PH[1]

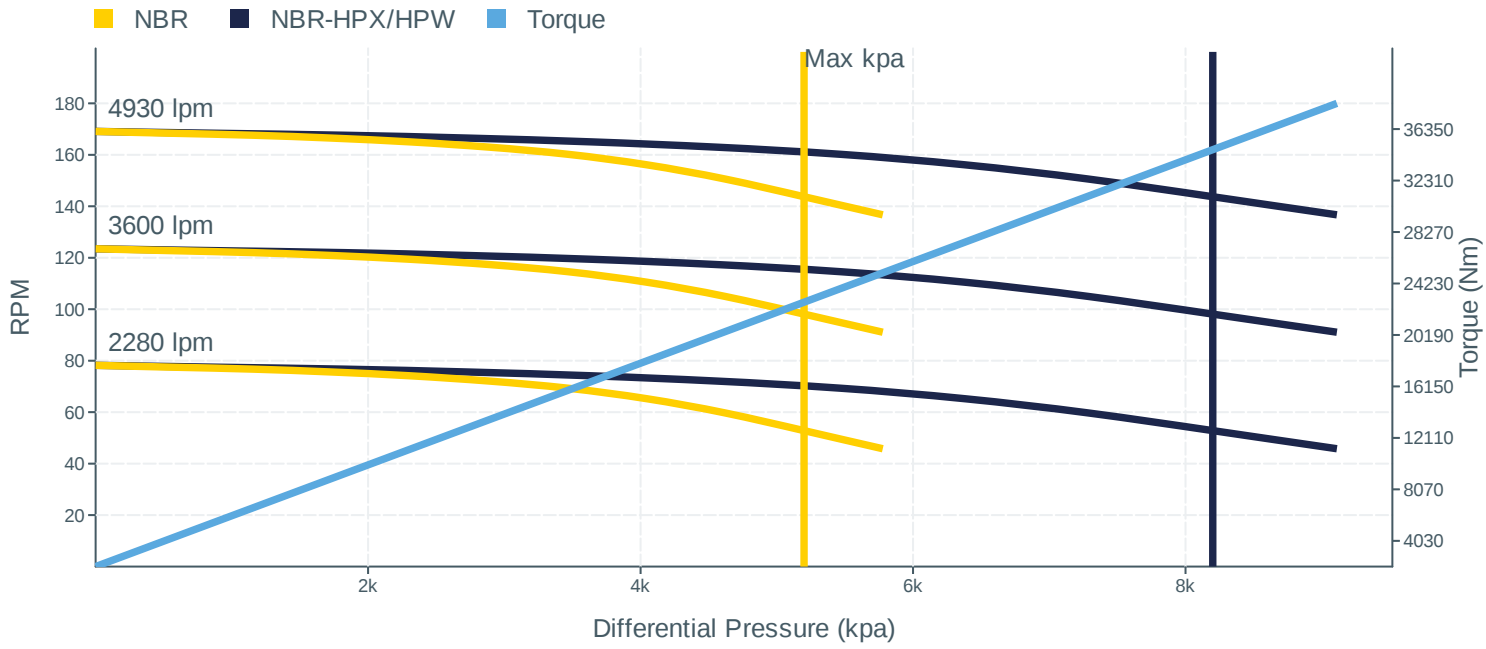
Stator Specification	
Overall Length	5537.2 mm
Tube OD	244.6 mm
Tube ID	200.2 mm
Rubber Cutback Top/End	203.2/203.2 mm
Weight	760 kgs
Number of Stages	5.0 mm
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	--	--	--	--	--	--
STD	140.69	0.20	0.81	1.40	2.29	2.90
0.5 OS	141.20	-0.30	0.30	0.89	1.78	2.36
1 OS	141.66	-0.76	-0.15	0.43	1.30	1.88
1.5 OS	--	--	--	--	--	--
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	--	--	--	--	--	--
STD	140.61	0.28	0.89	1.47	2.39	2.97
0.5 OS	141.12	-0.23	0.38	0.97	1.85	2.44
1 OS	141.61	-0.71	-0.10	0.48	1.35	1.93
1.5 OS	--	--	--	--	--	--
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	2280 - 4930 lpm
Speed Range	80 - 170 RPM
Torque Slope	3.99 Nm/kpa
Rotation	0.0343 rev/liter
Off Bottom Pressure	970 kpa

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	5200 kpa	8200 kpa
Stall Diff. Press.	7800 kpa	12800 kpa
Max Torque	20700 Nm	32400 Nm
Stall Torque	31000 Nm	51000 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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