Abaco DRILLING TECHNOLOGIES

POWER SECTION

Model No: AT475783.7

Revised: 9/11/2019

Rotor Specification	
Overall Length	214.75 in.
Contour Length	208.25 in.
Major Diameter	3.122 in.
Eccentricity	0.177 in.
Head Diameter	3.250 in.
Thread Form	1.375-6 SA
Weight	377 lbs.
Material	17-4 PH[1]

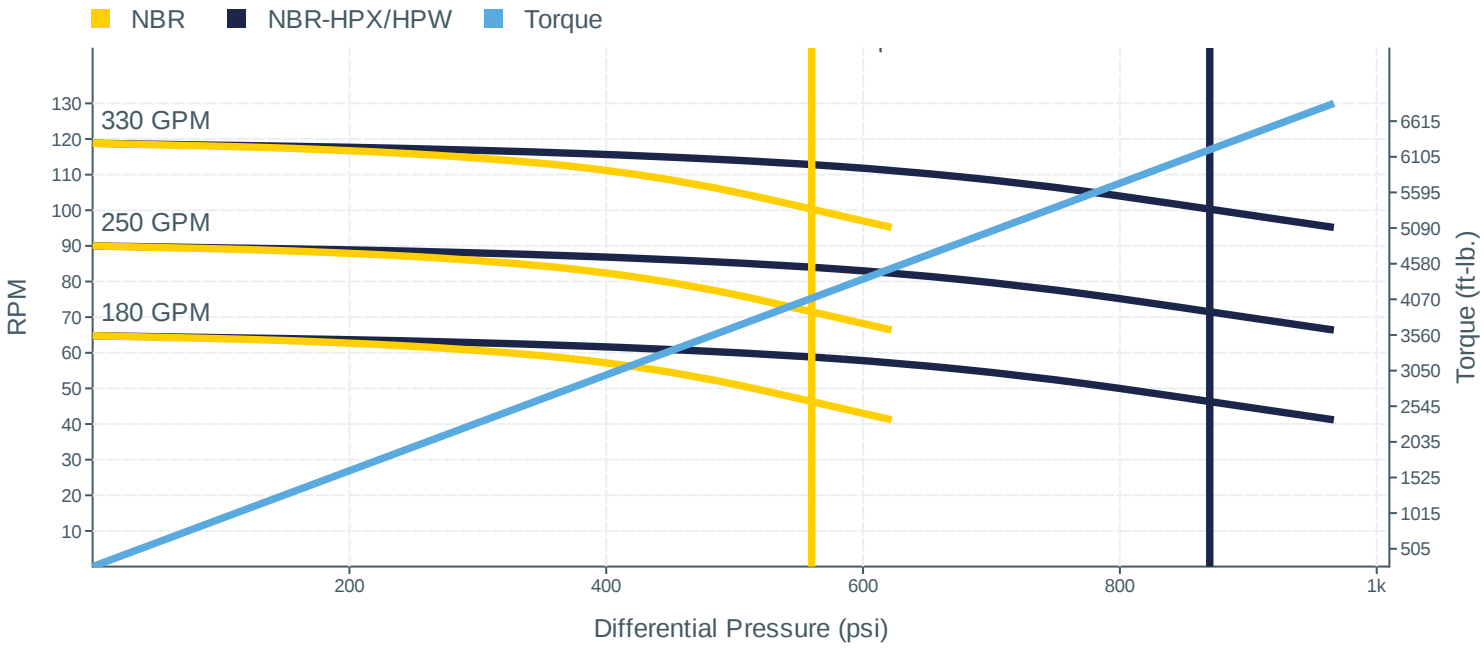
Stator Specification	
Overall Length	235.00 in.
Tube OD	4.75 in.
Tube ID	3.88 in.
Rubber Cutback Top/End	8/15.5 in.
Weight	424 lbs.
Number of Stages	3.7 in.
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	--	--	--	--	--	--
STD	2.769	0.000	0.013	0.025	0.045	0.057
0.5 OS	2.779	-0.010	0.003	0.015	0.034	0.047
1 OS	2.789	-0.020	-0.008	0.005	0.024	0.036
1.5 OS	2.799	-0.030	-0.018	-0.005	0.013	0.026
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	2.765	0.004	0.017	0.030	0.049	0.061
0.5 OS	2.775	-0.006	0.007	0.019	0.038	0.051
1 OS	2.785	-0.016	-0.003	0.009	0.028	0.040
1.5 OS	2.794	-0.025	-0.013	0.000	0.019	0.031
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	180 - 330 GPM
Speed Range	60 - 120 RPM
Torque Slope	6.85 ft-lb./psi
Rotation	0.360 rev/gal
Off Bottom Pressure	60 psi

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	560 psi	870 psi
Stall Diff. Press.	840 psi	1370 psi
Max Torque	3810 ft-lb.	5960 ft-lb.
Stall Torque	5710 ft-lb.	9390 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: AT475783.7

Revised: 9/11/2019

Rotor Specification	
Overall Length	5454.7 mm
Contour Length	5289.5 mm
Major Diameter	79.30 mm
Eccentricity	4.50 mm
Head Diameter	82.60 mm
Thread Form	1.375-6 SA
Weight	171 kgs
Material	17-4 PH[1]

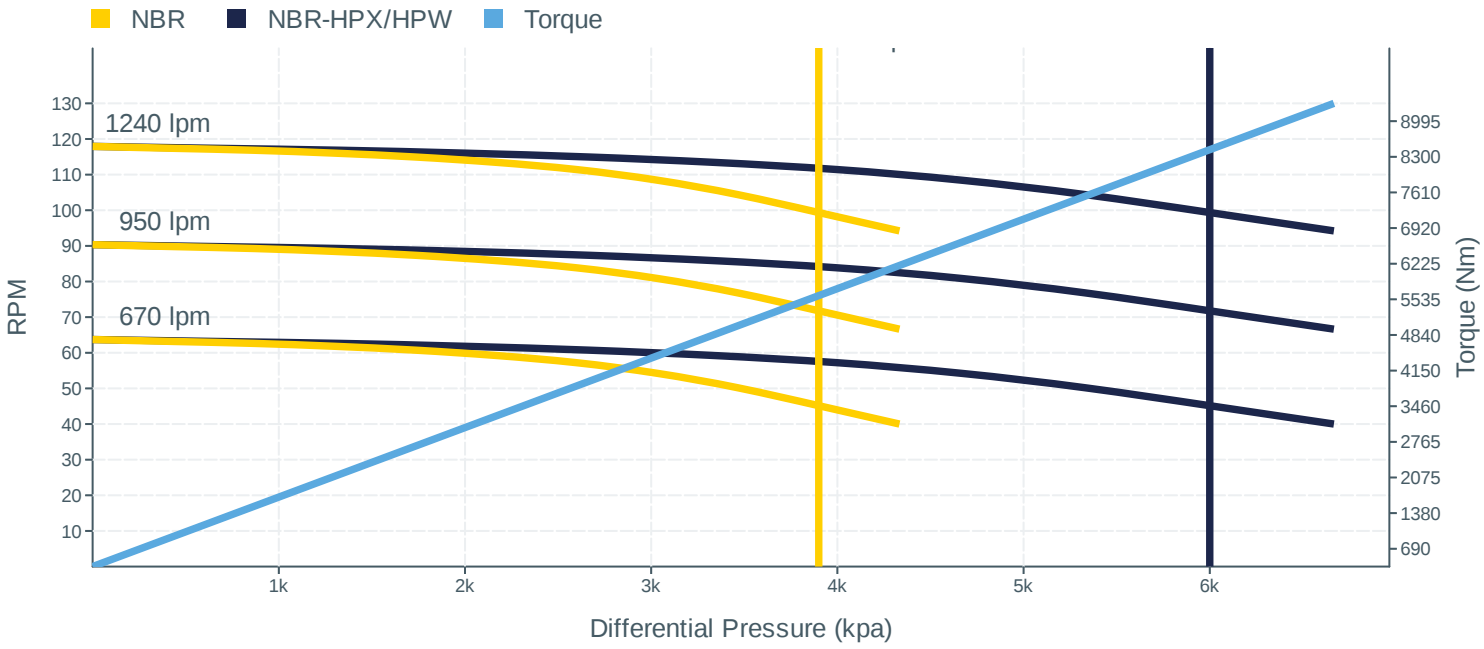
Stator Specification	
Overall Length	5969.0 mm
Tube OD	120.7 mm
Tube ID	98.6 mm
Rubber Cutback Top/End	203.2/393.7 mm
Weight	192 kgs
Number of Stages	3.7 mm
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	--	--	--	--	--	--
STD	70.33	0.00	0.33	0.64	1.14	1.45
0.5 OS	70.59	-0.25	0.08	0.38	0.86	1.19
1 OS	70.84	-0.51	-0.20	0.13	0.61	0.91
1.5 OS	71.09	-0.76	-0.46	-0.13	0.33	0.66
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	70.23	0.10	0.43	0.76	1.24	1.55
0.5 OS	70.49	-0.15	0.18	0.48	0.97	1.30
1 OS	70.74	-0.41	-0.08	0.23	0.71	1.02
1.5 OS	70.97	-0.63	-0.33	0.00	0.48	0.79
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	670 - 1240 lpm
Speed Range	60 - 120 RPM
Torque Slope	1.35 Nm/kpa
Rotation	0.0951 rev/liter
Off Bottom Pressure	420 kpa

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	3900 kpa	6000 kpa
Stall Diff. Press.	5800 kpa	9500 kpa
Max Torque	5200 Nm	8100 Nm
Stall Torque	7800 Nm	12800 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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