Abaco DRILLING TECHNOLOGIES

POWER SECTION

Model No: AT675785.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	188.00 in.
Contour Length	181.00 in.
Major Diameter	4.520 in.
Eccentricity	0.256 in.
Head Diameter	4.000 in.
Thread Form	2.875 API REG
Weight	694 lbs.
Material	17-4 PH[1]

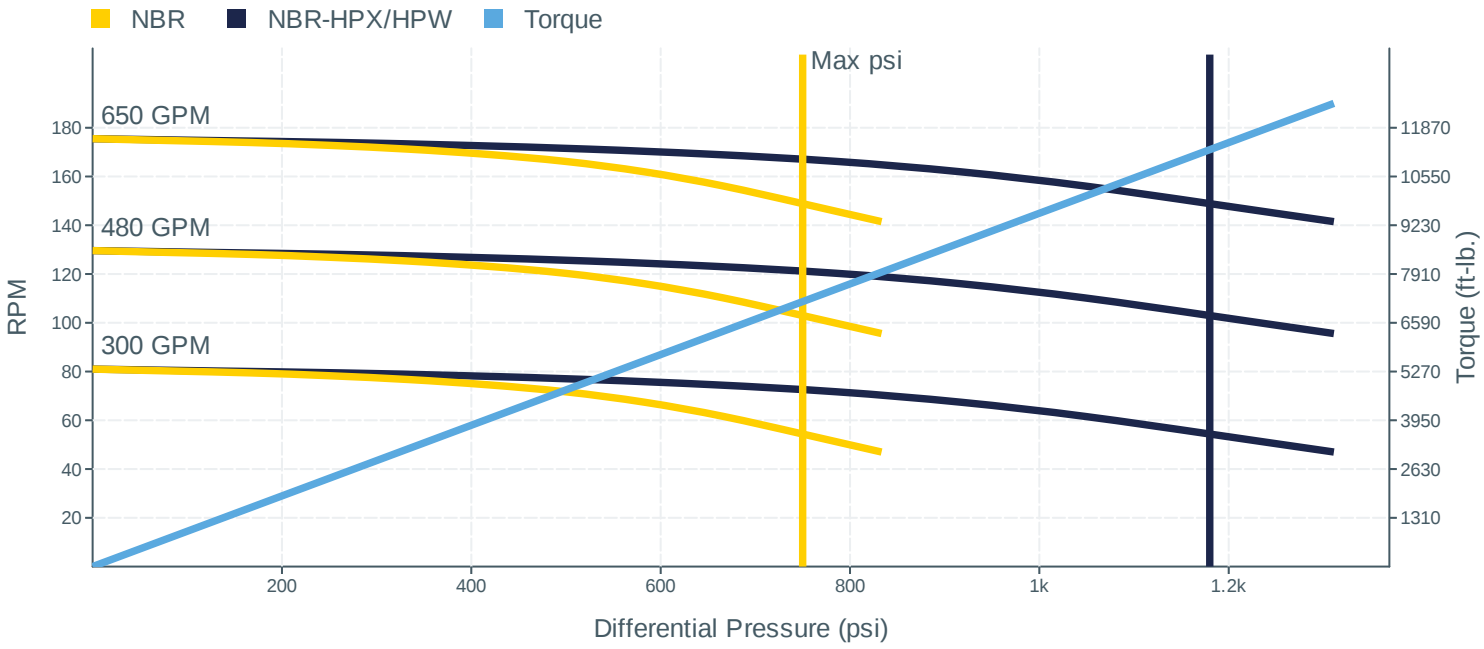
Stator Specification	
Overall Length	194.50 in.
Tube OD	6.75 in.
Tube ID	5.50 in.
Rubber Cutback Top/End	8/8 in.
Weight	746 lbs.
Number of Stages	5.0 in.
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	--	--	--	--	--	--
STD	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.	750 psi	1180 psi
Stall Diff. Press.	1130 psi	1860 psi
Max Torque	6800 ft-lb.	10650 ft-lb.
Stall Torque	10200 ft-lb.	16770 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

© 2019 Abaco Drilling Technologies. All rights reserved.

Abaco DRILLING TECHNOLOGIES

POWER SECTION – METRIC

Model No: AT675785.0

Revised: 9/11/2019

Rotor Specification	
Overall Length	4775.2 mm
Contour Length	4597.4 mm
Major Diameter	114.80 mm
Eccentricity	6.50 mm
Head Diameter	101.60 mm
Thread Form	2.875 API REG
Weight	315 kgs
Material	17-4 PH[1]

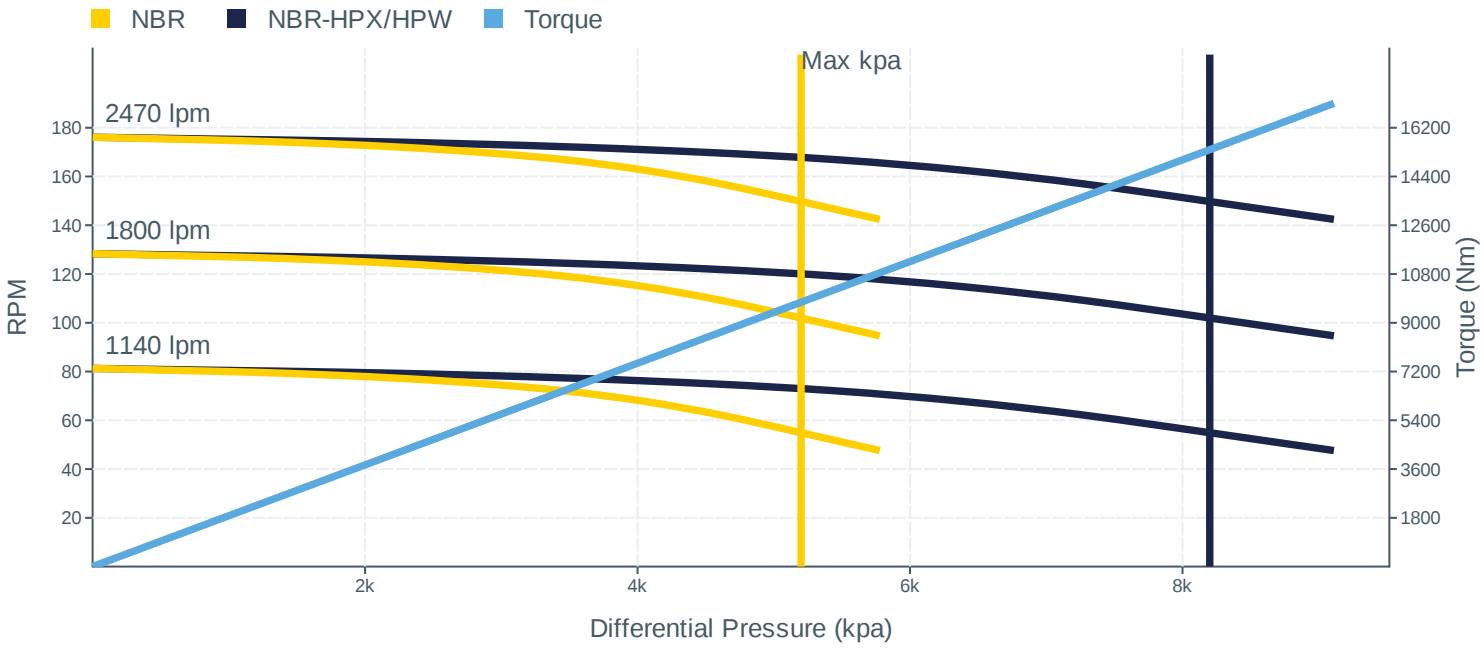
Stator Specification	
Overall Length	4940.3 mm
Tube OD	171.5 mm
Tube ID	139.7 mm
Rubber Cutback Top/End	203.2/203.2 mm
Weight	338 kgs
Number of Stages	5.0 mm
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	--	--	--	--	--	--
STD	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.	5200 kpa	8200 kpa
Stall Diff. Press.	7800 kpa	12800 kpa
Max Torque	9300 Nm	14500 Nm
Stall Torque	13900 Nm	22800 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)

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

© 2019 Abaco Drilling Technologies. All rights reserved.