

POWER SECTION

Model No: AT312564.0

Revised: 2/4/2021

Rotor Specifications	
	inches
Overall Length	84.00
Contour Length	78.80
Major Diameter	2.066
Eccentricity	0.148
Head diameter	2.360
Thread Form	N/A
Weight	63 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	88.00
Tube OD	3.13
Tube ID	2.63
Rubber Cutback Top/End	4.00 / 4.00
Weight	66 lbs
Number of Stages	4.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

NBR-HPX/HPW (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD						
.5 OS						
1.0 OS	1.784	-0.014	-0.008	-0.003	0.006	0.011
1.5 OS						
2.0 OS						
2.5 OS						

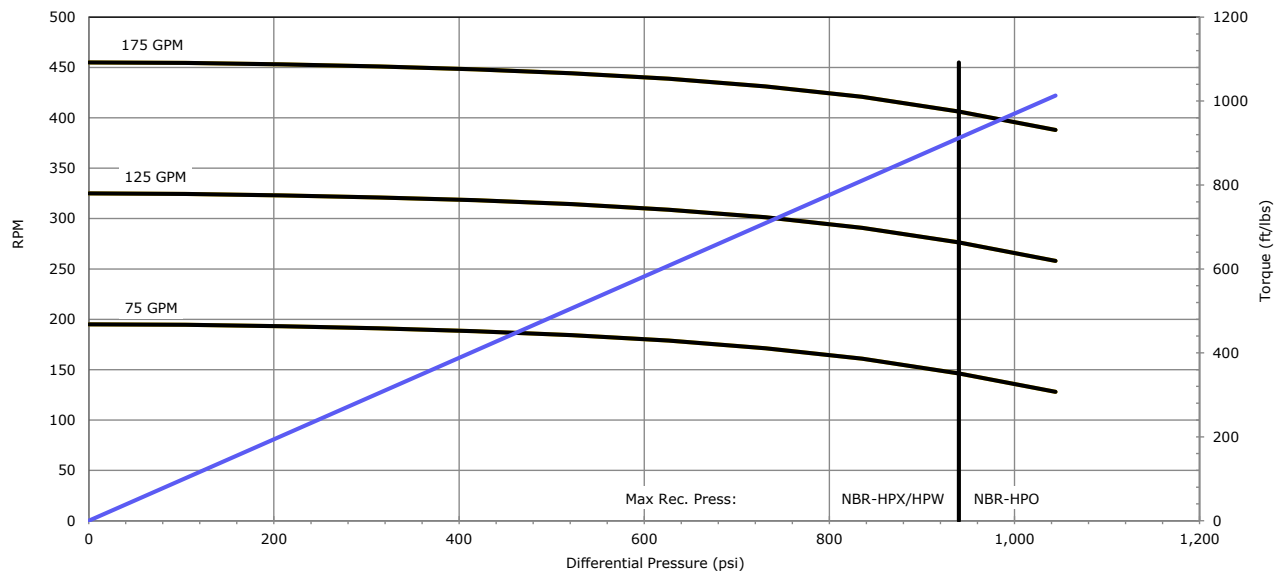
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD						
.5 OS						
1.0 OS	1.784	-0.014	-0.008	-0.003	0.006	0.011
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	75 - 175
Speed Range (rpm)	200 - 460
Torque Slope (ft-lb/psi)	0.97
Rotation (rev/gal)	2.600
Off Bottom Pressure (psi)	80

Performance Details		
	NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)	940	940
Stall Diff Press (psi)	1490	1490
Max Torque (ft-lb)	920	920
Stall Torque (ft-lb)	1440	1440

■ (NBR-HPX/HPW/HPO)

■ Torque



¹ Coating options of chrome or tungsten carbide are available ² Vector Gauge Readings at Room Temp 75°F ³ BHCT Exceeding 320°F will void warranty for NBR-HPX/HPW/HPO
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 www.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
DUBAI UAE: Stator Manufacturing Oilfields Supply Center B#57, Jebel Ali, Dubai UAE, P.O. Box 19909 - Tel: 971-4-870-8600

POWER SECTION - METRIC

Model No: AT312564.0

Revised: 2/4/2021

Rotor Specifications	
	mm
Overall Length	2133.6
Contour Length	2001.5
Major Diameter	52.48
Eccentricity	3.75
Head diameter	59.94
Thread Form	N/A
Weight	29 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	2235.2
Tube OD	79.4
Tube ID	66.7
Rubber Cutback Top/End	102.0 / 102.0
Weight	30 kg
Number of Stages	4.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

BR-HPX/HPW (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD						
.5 OS						
1.0 OS	45.31	-0.34	-0.09	0.03	0.16	0.28
1.5 OS						
2.0 OS						
2.5 OS						

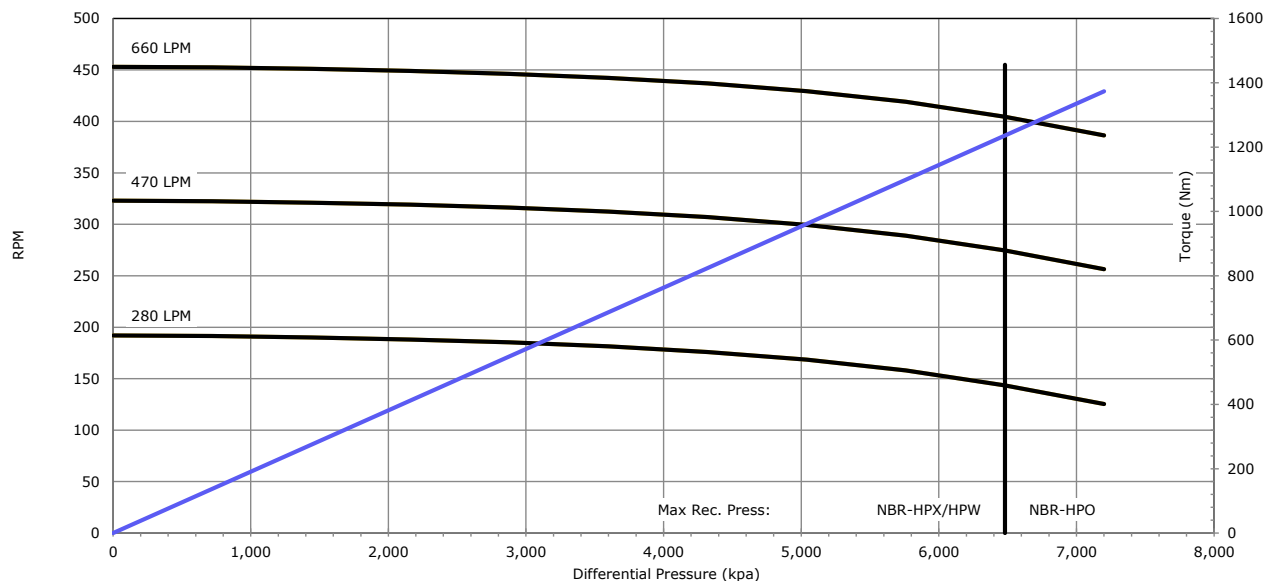
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD						
.5 OS						
1.0 OS	45.31	-0.34	-0.09	0.03	0.16	0.28
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	280 - 660
Speed Range (rpm)	200 - 460
Torque Slope (Nm/kpa)	0.19
Rotation (rev/Liter)	0.6868
Off Bottom Pressure (kpa)	550

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		6500	6500
Stall Diff Press (kpa)		10200	10300
Max Torque (Nm)		1300	1300
Stall Torque (Nm)		2000	2000

■ (NBR-HPX/HPW/HPO)

■ Torque



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

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