

POWER SECTION

Model No: AT287563.5

Revised: 2/4/2021

Rotor Specifications	
	inches
Overall Length	91.00
Contour Length	86.50
Major Diameter	1.675
Eccentricity	0.118
Head diameter	1.800
Thread Form	N/A
Weight	44 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	98.60
Tube OD	2.88
Tube ID	2.38
Rubber Cutback Top/End	7.00 / 7.00
Weight	67 lbs
Number of Stages	3.5
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	1.432	0.007	0.012	0.017	0.025	0.030
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

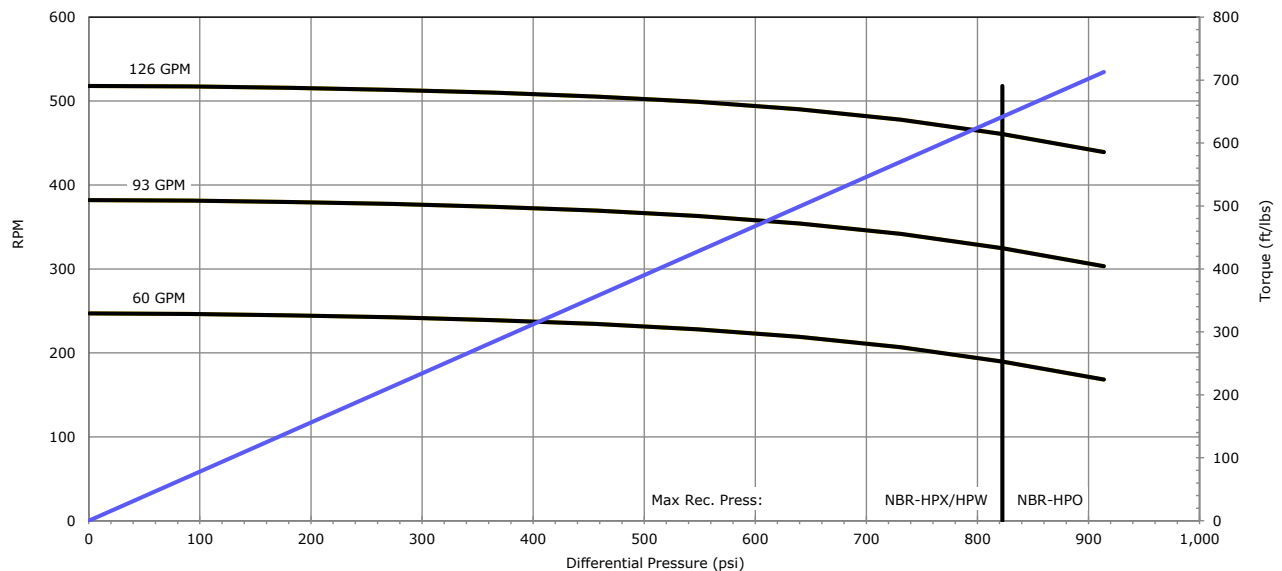
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US						
STD	1.432	0.007	0.012	0.017	0.025	0.030
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	60 - 126
Speed Range (rpm)	250 - 520
Torque Slope (ft-lb/psi)	0.78
Rotation (rev/gal)	4.111
Off Bottom Pressure (psi)	70

Performance Details		
	NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)	830	830
Stall Diff Press (psi)	1300	1300
Max Torque (ft-lb)	650	650
Stall Torque (ft-lb)	1020	1020

■ (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: AT287563.5

Revised: 2/4/2021

Rotor Specifications	
	mm
Overall Length	2311.4
Contour Length	2197.1
Major Diameter	42.55
Eccentricity	3.00
Head diameter	45.72
Thread Form	N/A
Weight	20 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	2504.4
Tube OD	73.0
Tube ID	60.3
Rubber Cutback Top/End	178.0 / 178.0
Weight	30 kg
Number of Stages	3.5
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	36.37	0.18	0.41	0.53	0.65	0.77
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

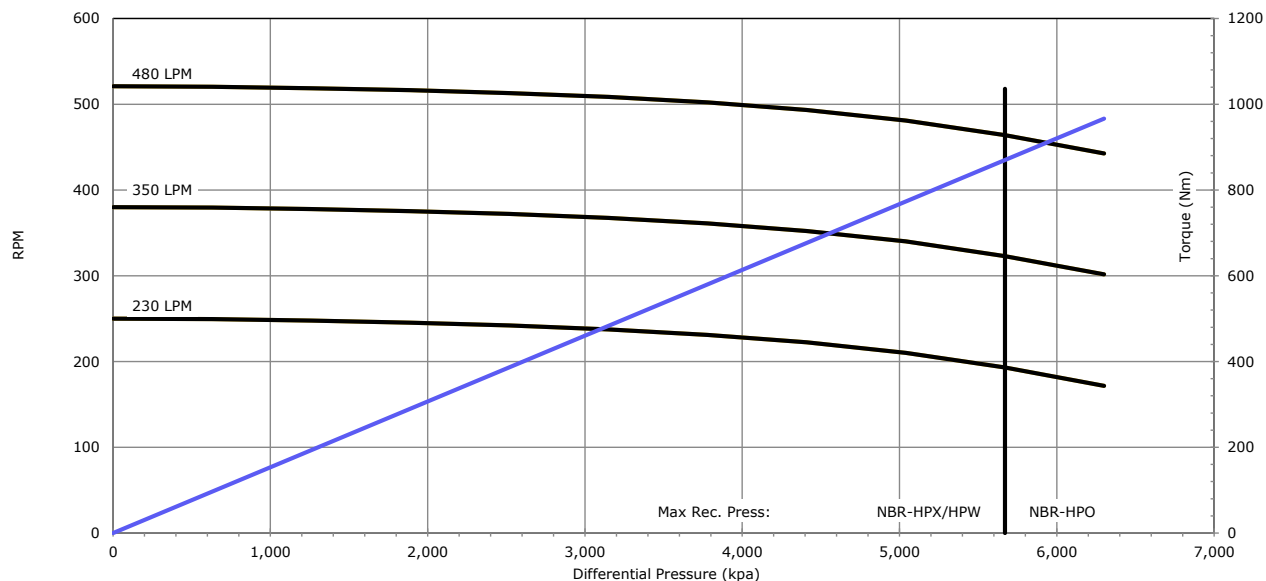
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US						
STD	36.37	0.18	0.41	0.53	0.65	0.77
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	230 - 480
Speed Range (rpm)	250 - 520
Torque Slope (Nm/kpa)	0.15
Rotation (rev/Liter)	1.0860
Off Bottom Pressure (kpa)	500

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		5700	5700
Stall Diff Press (kpa)		8900	9000
Max Torque (Nm)		900	900
Stall Torque (Nm)		1400	1400

■ (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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