

POWER SECTION

Model No: AT287567.0

Revised: 2/4/2021

Rotor Specifications	
	inches
Overall Length	110.00
Contour Length	106.00
Major Diameter	1.658
Eccentricity	0.122
Head diameter	1.650
Thread Form	N/A
Weight	51 lbs
Material	17-4 PH ¹

Stator Specifications	
	inches
Overall Length	117.00
Tube OD	2.88
Tube ID	2.38
Rubber Cutback Top/End	8.00 / 8.00
Weight	82 lbs
Number of Stages	7.0
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	1.406	0.008	0.015	0.023	0.033	0.041
STD	1.407	0.007	0.014	0.022	0.032	0.040
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

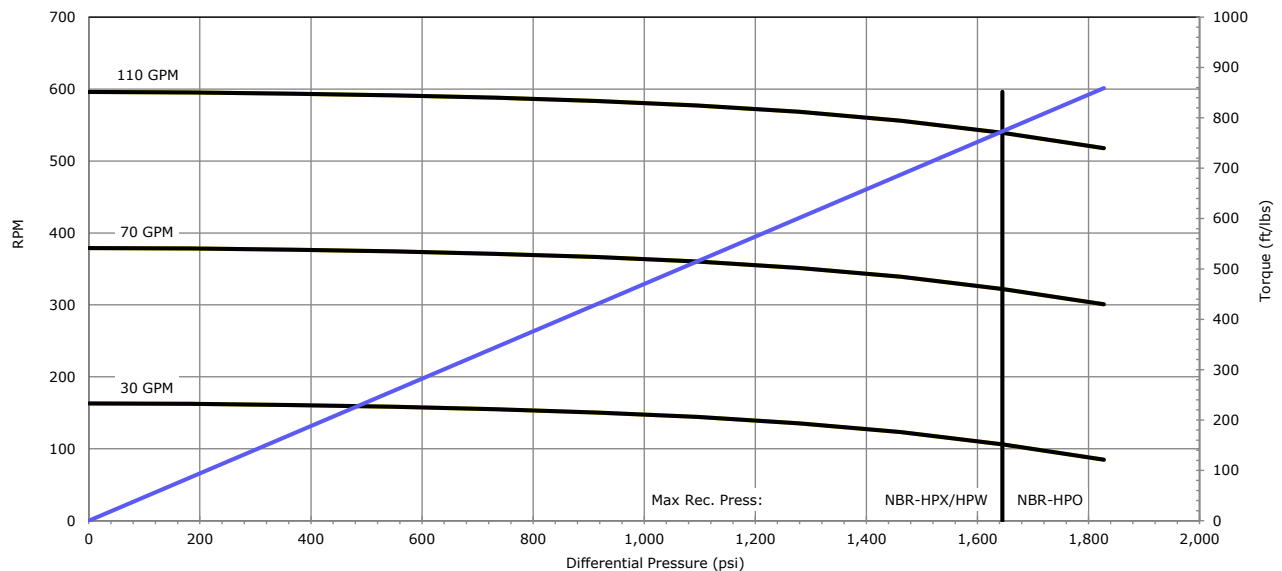
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor ²	75 °F	125 °F	175 °F	250 °F	300 °F ³
.5 US	1.406	0.008	0.015	0.023	0.033	0.041
STD	1.407	0.007	0.014	0.022	0.032	0.040
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	30 - 110
Speed Range (rpm)	160 - 600
Torque Slope (ft-lb/psi)	0.47
Rotation (rev/gal)	5.420
Off Bottom Pressure (psi)	80

Performance Details		
	NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)	1650	1650
Stall Diff Press (psi)	2600	2600
Max Torque (ft-lb)	780	780
Stall Torque (ft-lb)	1220	1220

■ (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: AT287567.0

Revised: 2/4/2021

Rotor Specifications	
	mm
Overall Length	2794.0
Contour Length	2692.4
Major Diameter	42.11
Eccentricity	3.10
Head diameter	41.91
Thread Form	N/A
Weight	23 kg
Material	17-4 PH ¹

Stator Specifications	
	mm
Overall Length	2971.8
Tube OD	73.0
Tube ID	60.3
Rubber Cutback Top/End	203.0 / 203.0
Weight	37 kg
Number of Stages	7.0
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	35.71	0.20	0.54	0.70	0.87	1.03
STD	35.74	0.18	0.51	0.68	0.84	1.01
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

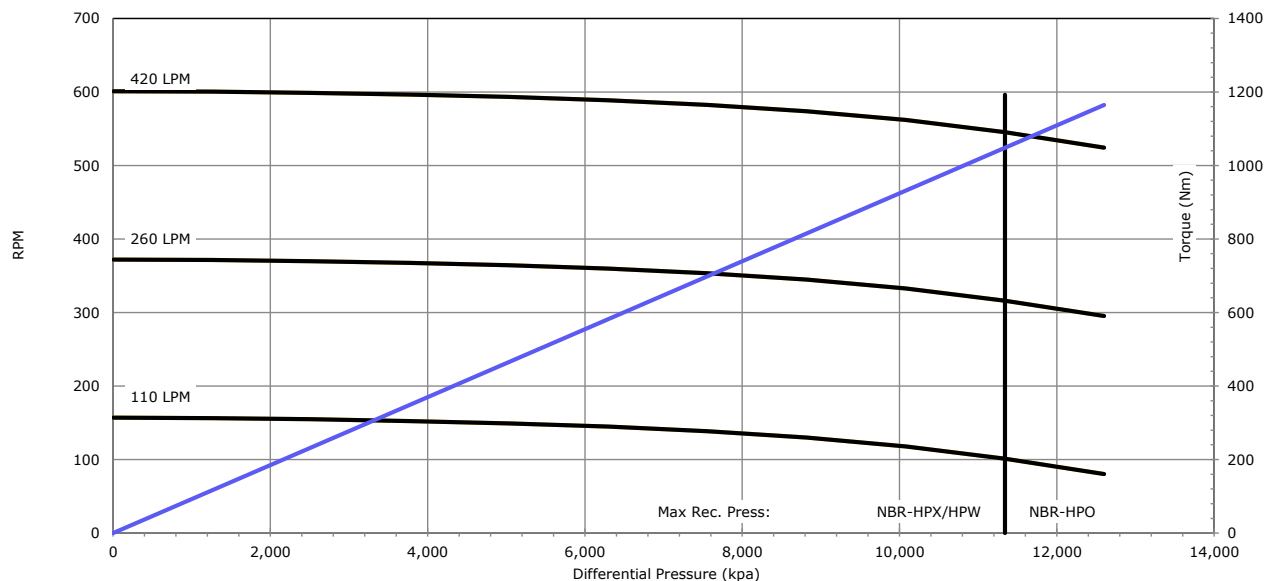
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
.5 US	35.71	0.20	0.54	0.70	0.87	1.03
STD	35.74	0.18	0.51	0.68	0.84	1.01
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	110 - 420
Speed Range (rpm)	160 - 600
Torque Slope (Nm/kpa)	0.09
Rotation (rev/Liter)	1.4318
Off Bottom Pressure (kpa)	540

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		11400	11400
Stall Diff Press (kpa)		17900	17900
Max Torque (Nm)		1100	1100
Stall Torque (Nm)		1700	1700

■ (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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