

## POWER SECTION

**Model No: AT212566.0**

Revised: 2/4/2021

Rotor Specifications	
	inches
Overall Length	83.13
Contour Length	79.00
Major Diameter	1.236
Eccentricity	0.087
Head diameter	1.250
Thread Form	N/A
Weight	21 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	88.00
Tube OD	2.13
Tube ID	1.75
Rubber Cutback Top/End	4.00 / 4.00
Weight	34 lbs
Number of Stages	6.0
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

NBR-HPX/HPW (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	1.059	0.003	0.008	0.013	0.021	0.026
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

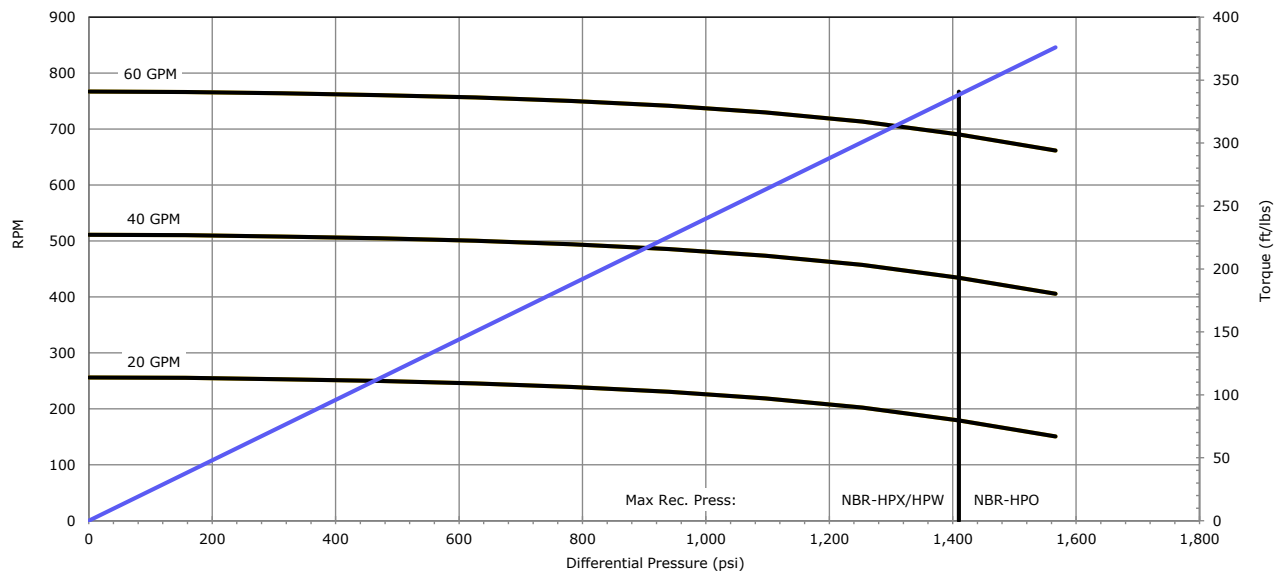
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD	1.059	0.003	0.008	0.013	0.021	0.026
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	20 - 60
Speed Range (rpm)	260 - 770
Torque Slope (ft-lb/psi)	0.24
Rotation (rev/gal)	12.780
Off Bottom Pressure (psi)	60

Performance Details		
	NBR-HPX/HPW	NBR-HPO
Max Diff Press (psi)	1410	1410
Stall Diff Press (psi)	2230	2230
Max Torque (ft-lb)	340	340
Stall Torque (ft-lb)	540	540

■ (NBR-HPX/HPW/HPO)

■ Torque



<sup>1</sup> Coating options of chrome or tungsten carbide are available <sup>2</sup> Vector Gauge Readings at Room Temp 75°F <sup>3</sup> 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](http://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: AT212566.0**

Revised: 2/4/2021

Rotor Specifications	
	mm
Overall Length	2111.5
Contour Length	2006.6
Major Diameter	31.39
Eccentricity	2.21
Head diameter	31.75
Thread Form	N/A
Weight	10 kg
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	mm
Overall Length	2235.2
Tube OD	54.0
Tube ID	44.5
Rubber Cutback Top/End	102.0 / 102.0
Weight	15 kg
Number of Stages	6.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	NBR-HPX/HPW & NBR-HPO

BR-HPX/HPW (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	26.90	0.08	0.31	0.42	0.54	0.65
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

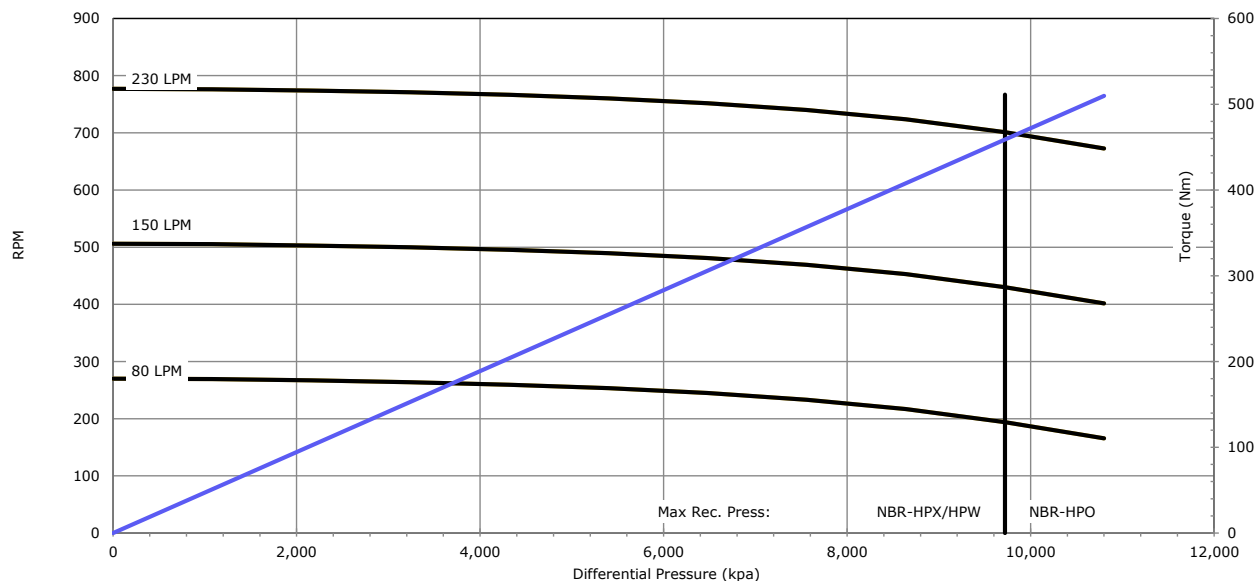
NBR-HPO (mm)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	25 °C	75 °C	100 °C	125 °C	150 °C <sup>3</sup>
.5 US						
STD	26.90	0.08	0.31	0.42	0.54	0.65
.5 OS						
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (lpm)	80 - 230
Speed Range (rpm)	260 - 770
Torque Slope (Nm/kpa)	0.05
Rotation (rev/Liter)	3.3761
Off Bottom Pressure (kpa)	440

Performance Details		NBR-HPX/HPW	NBR-HPO
Max Diff Press (kpa)		9800	9800
Stall Diff Press (kpa)		15300	15400
Max Torque (Nm)		500	500
Stall Torque (Nm)		800	800

■ (NBR-HPX/HPW/HPO)

■ Torque



<sup>1</sup> Coating options of chrome or tungsten carbide are available <sup>2</sup> Vector Gauge Readings at Room Temp 25°C <sup>3</sup> BHCT Exceeding 160°C 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](http://www.AbacoDrilling.com) for the latest specification revisions.

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