

CHALLENGER

DOWNHOLE TOOLS INC
www.challengerdownhole.com

Calgary
403.235.2364

Edmonton
780.435.5455 (24 Hour)

POWER SECTION

Model No: BT500678.0

Revised: 12/3/2013

METRIC

ROTOR SPECIFICATIONS	
	mm
Overall Length	6121.4
Contour Length	5969.0
Major Diameter	76.66
Eccentricity	4.88
Head diameter	73.66
Thread Form	2.375 Hughes External Flush
Weight	149 kg
Material	17-4 PH

STATOR SPECIFICATIONS	
	mm
Overall Length	6350.0
Tube OD	127.0
Tube ID	101.6
Rubber Cutback Top/End	203.0 / 203.0
Weight	261 kg
Number of Stages	8.0
Tube Material	4140/4142 Seamless Alloy Steel
Rubber Options	NBR, NBR-HP

¹ Coating options of chrome or tungsten carbide are available

NBR (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
STD	67.26	-0.36	0.23	0.53	0.82	1.11
.5 OS						
1.0 OS	67.77	-0.86	-0.29	0.00	0.29	0.58
1.5 OS						
2.0 OS						

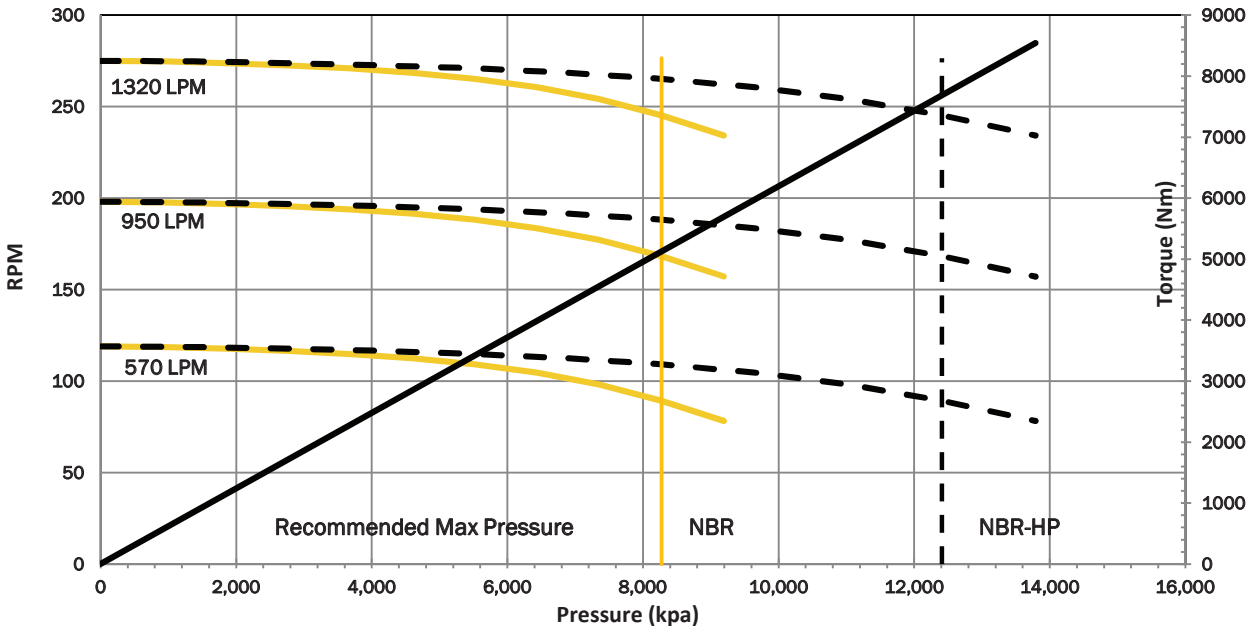
NBR-HP (mm)		Fits (+ Compression / - Loose)				
Size	Minor ²	25 °C	75 °C	100 °C	125 °C	150 °C ³
STD	67.26	-0.36	0.17	0.43	0.69	0.95
.5 OS						
1.0 OS	67.77	-0.86	-0.35	-0.09	0.16	0.42
1.5 OS						
2.0 OS						

² Vector Gauge Readings at Room Temp 25°C

³ BHCT Exceeding 135°C will void warranty

PERFORMANCE SPECIFICATIONS	
Flow Range (lpm)	570 - 1320
Speed Range (rpm)	120 - 280
Torque Slope (Nm/kpa)	0.619
Rotation (rev/Liter)	0.2087
Off Bottom Pressure(kpa)	780

PERFORMANCE DETAILS		
	NBR	NBR-HP
Max Diff Press (Kpa)	8300	12500
Stall Diff Press (kpa)	12400	18700
Max Torque (Nm)	5200	7700
Stall Torque (Nm)	7700	11600



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 basintek.com for the latest specification revisions.