

# 7.00"

(178 mm)

# 7869

CONFIGURATION



## SPECIFICATIONS

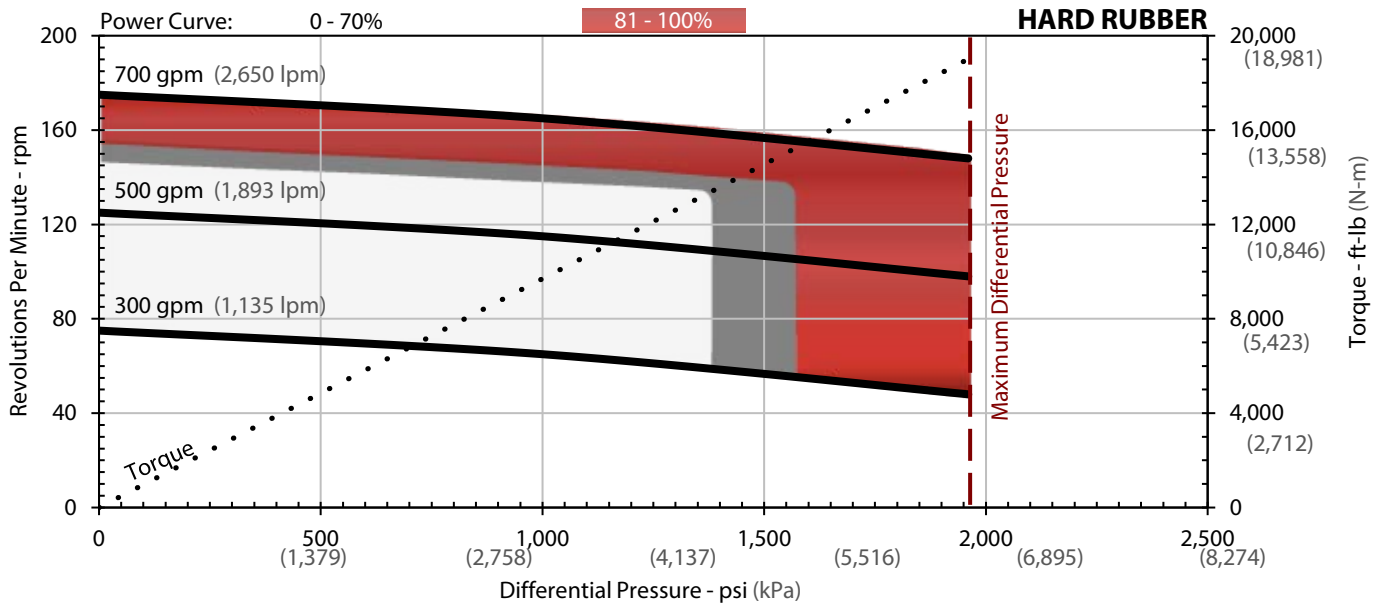
	IMPERIAL	METRIC
Maximum Differential Pressure	1,960 psi	(13,514 kPa)
Torque at Maximum Differential	19,010 ft-lb	(25,775 N-m)
Stall Torque	28,500 ft-lb	(38,640 N-m)
Flow Range	300 - 700 gpm	(1,135 - 2,650 lpm)
RPM Ratio	0.25 Revolutions / g	(0.07 Revolutions / l)
RPM Range	75 - 175 rpm	(75 - 175 rpm)
Recommended Hole Sizes	7.875 - 8.75 in	(200 - 222 mm)
Maximum Weight on Bit	105,000 lb	(46,700 daN)
Maximum Overpull (Static)	479,000 lb	(213,100 daN)
Overall Weight	2,400 lb	(1,088 kg)

## LENGTH

	IMPERIAL	METRIC
(A) to Stabilizer	15.10 in	(0.38 m)
(B) to Adj. Bend	56.70 in	(1.44 m)
(B) to Fixed Bend	53.50 in	(1.36 m)
(C) Overall	323.74 in	(8.22 m)

## ADJUSTABLE

	IMPERIAL	METRIC
Make-Up Value	30,000 ft-lb	(40,700 N-m)



## 0 - 3° ADJUSTABLE

Degrees / 100 ft (30 m)

BEND	7.875" HOLE SIZE		8.50" HOLE SIZE		8.75" HOLE SIZE		P R E D I C T E D
0.39°	0.9	2.6	-	3.0	-	3.2	
0.78°	4.1	5.4	2.2	5.8	1.4	6.0	
1.15°	7.1	8.1	5.2	8.5	4.4	8.7	
1.50°	9.9	10.6	8.0	11.0	7.3	11.2	
1.83°	12.6	13.0	10.7	13.4	10.0	13.6	
2.12°	15.0	15.1	13.1	15.5	12.3	15.7	
2.38°	17.1	17.0	15.2	17.4	14.5	17.5	
2.60°	18.9	18.5	17.0	19.0	16.3	19.1	
2.77°	20.3	19.8	18.4	20.2	17.7	20.3	
2.90°	21.4	20.7	19.5	21.1	18.7	21.3	
2.97°	21.9	21.2	20.1	21.6	19.3	21.8	
3.00°	22.2	21.4	20.3	21.8	19.5	22.0	
		SLICK		1 STAB		1 STAB	

## FIXED HOUSING

Degrees / 100 ft (30 m)

BEND	7.875" HOLE SIZE		8.50" HOLE SIZE		8.75" HOLE SIZE		P R E D I C T E D
1.50°	9.8	10.7	7.8	11.1	7.0	11.3	
1.75°	11.8	12.5	9.9	13.0	9.1	13.1	
1.90°	13.1	13.6	11.1	14.1	10.3	14.2	
2.00°	13.9	14.4	11.9	14.8	11.1	14.9	
2.12°	14.9	15.2	12.9	15.7	12.1	15.8	
2.25°	15.9	16.2	13.9	16.6	13.1	16.8	
2.50°	18.0	18.0	16.0	18.4	15.2	18.6	
2.60°	18.8	18.8	16.8	19.1	16.0	19.3	
		SLICK		1 STAB		1 STAB	

Figures are for reference only. Stabilized build rates assume a lower stabilizer 0.125" undergauge. Actual performance may vary based on tool and operating conditions. Refer to temperature and mud scaling curves for optimal performance and reliability. Rotating above 1.50° may cause damage to the performance motor at certain RPM's. Running above 80% will be done so at client's risk. Contact your R3 EDGE representative to confirm ideal operating specifications. Updated September 2014.

