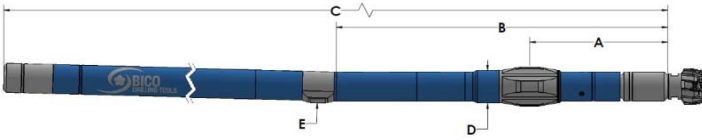


# 6 3/4" P100XL Hard Rubber



## G1 Bearing Assembly



## Power Section Configuration

Lobes: 7/8 Stages: 5.0

## Physical Data

Bit to Center of Stabilizer Blade	A	45.30 in (1,151 mm)
Bit to Bend	B	87.6 in (2,225 mm)
Overall Motor Length	C	27.4 ft (8.35 m)
Max OD of Motor at Stabilizer Upset	D	7.76 in (197 mm)
Radius at Kickpad	E	3.95 in (100 mm)
Max Effective OD of Slick Motor @ Kickpad		6.91 in (175 mm)
Common Top Connection:		4-1/2" REG
Common Btm Connection:		4-1/2" REG
Recommended Bit Sizes:		8-1/4" to 9-7/8" (209.6 - 251.0 mm)

## Maximum Motor Loads

		Continuous Operation	Ultimate Loading
WOB	lbs (kg)	81,000 (36,740)	-
Backreaming	lbs (kg)	56,000 (25,400)	-
Bit Overpull*	lbs (kg)	197,000 (89,360)	740,000 (335,660)
Body Overpull*	lbs (kg)	526,000 (238,590)	1,070,000 (485,340)

### \* While not Operating

Continuous Loads - Lay motor down if exceeded

Ultimate Loads - Motor parts may be left in hole if load approached

## Recommended Operating Limits

	Imperial	Metric
Flow Range	300 - 600 gpm	1,136 - 2,270 lpm
Speed Ratio	0.28 rev/gal	.074 rev/l
No Load Bit Speed	84 - 168 rpm	

## Performance Output

	Imperial	Metric
Max Recommended Pressure	1,250 psi	86 bar
Torque Slope	9.0 ft-lb/psi	178 Nm/bar
Torque @ Max Recommended Pressure	11,291 ft-lbs	15,308 N-m
Power @ Max Recommended Pressure	299 hp	223 kW

## Predicted Build Rates - Degrees/100 ft (30 m)

ABH (°)	Slick Motor			Stabilized 1/8" UG			Stabilized 1/4" UG		
	8-1/2	8-3/4	9-7/8	8-1/2	8-3/4	9-7/8	8-1/2	8-3/4	9-7/8
0.39	-	-	-	2.3	2.4	3.1	-	-	2.4
0.78	3.4	2.9	-	4.3	4.4	5.1	3.7	3.8	4.4
1.15	5.7	5.2	3.1	6.9	6.7	6.9	6.4	6.2	6.3
1.50	7.8	7.4	5.2	9.4	9.3	8.7	8.9	8.8	8.1
1.83	9.9	9.4	7.3	11.8	11.7	11.0	11.3	11.2	10.5
2.12	11.7	11.2	9.1	13.9	13.8	13.2	13.4	13.3	12.6
2.38	13.3	12.8	10.7	15.8	15.7	15.1	15.3	15.2	14.5
2.60	14.6	14.2	12.0	17.4	17.3	16.7	16.9	16.8	16.1
2.77	15.7	15.2	13.1	18.7	18.5	17.9	18.2	18.0	17.4
2.90	16.5	16.0	13.9	19.6	19.5	18.8	19.1	19.0	18.3
2.97	16.9	16.5	14.3	20.1	20.0	19.4	19.6	19.5	18.8
3.00	17.1	16.6	14.5	20.4	20.2	19.6	19.8	19.7	19.1

## Theoretical Performance Curve

