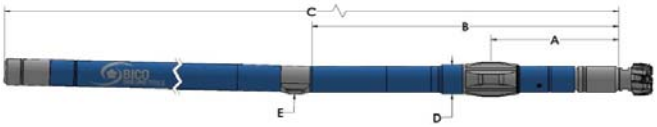
4 3/4" SS100 Long Fixed w/ Flexshaft

G2 Bearing Assembly



Power Section Config.

Lobes: 7/8 Stages: 3.8

Maximum Motor Loads

		Continuous Operation	Ultimate Loading
WOB	lbs (kg)	38,000 (17,240)	-
Backreaming	lbs (kg)	15,200 (6,890)	-
Bit Overpull*	lbs (kg)	96,000 (43,540)	465,000 (210,920)
Body Overpull*	lbs (kg)	229,000 (103,870)	465,000 (210,920)

*** While not Operating**

Continuous Loads - Lay motor down if exceeded

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

Physical Data

Bit to Center of Stabilizer Blade	A	25.24 in (641 mm)
Bit to Bend	B	79.34 in (2,015) mm)
Overall Motor Length	C	26.8 ft (8.2 m)
Max OD of Motor at Stabilizer Upset	D	5.13 in (130 mm)
Radius at Kickpad	E	2.78 in (71 mm)
Max Effective OD of Slick Motor @ Kickpad		4.82 in (122 mm)
Common Top Connection:		3-1/2" IF
Common Btm Connection:		3-1/2" REG
Recommended Bit Sizes:		5-3/4" to 6-3/4" (146.1 - 171.5 mm)

Recommended Operating Limits

	Imperial	*Metric*
Flow Range	150 - 300 gpm	570 - 1,136 lpm
Speed Ratio	.588 rev/gal	.155 rev/l
No Load Bit Speed	88 - 176 rpm	

Performance Output

	Imperial	*Metric*
Max Recommended Pressure	1,150 psi	79 bar
Torque Slope	4.94 ft-lb/psi	97.4 Nm/bar
Torque @ Max Recommended Pressure	5,676 ft-lbs	7,696 N-m
Power @ Max Recommended Pressure	141 hp	105 kW

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

	Slick Motor			Stabilized 1/8" UG			Stabilized 1/4" UG		
	Hole Size (in)			Hole Size (in)			Hole Size (in)		
ABH (°)	6	6-1/2	6-3/4	6	6-1/2	6-3/4	6	6-1/2	6-3/4
0.39	-	-	-	2.2	2.6	2.8	-	-	-
0.78	4.3	3.1	2.5	5.0	4.8	5.0	4.2	3.9	4.1
1.15	7.0	5.8	5.2	8.1	7.8	7.6	7.4	7.0	6.8
1.50	9.5	8.3	7.7	11.1	10.8	10.6	10.4	10.0	9.8
1.83	11.8	10.6	10.0	14.0	13.6	13.4	13.2	12.8	12.7
2.12	13.9	12.7	12.1	16.4	16.1	15.9	15.7	15.3	15.1
2.38	15.8	14.5	13.9	18.7	18.3	18.1	17.9	17.5	17.4
2.60	17.3	16.1	15.5	20.6	20.2	20.0	19.8	19.4	19.2
2.77	18.5	17.3	16.7	22.0	21.6	21.4	21.3	20.9	20.7
2.90	19.5	18.2	17.6	23.1	22.7	22.6	22.4	22.0	21.8
2.97	20.0	18.7	18.1	23.7	23.3	23.2	23.0	22.6	22.4
3.00	-	19.0	18.4	24.0	23.6	23.4	23.2	22.8	22.7

Theoretical Performance Curve