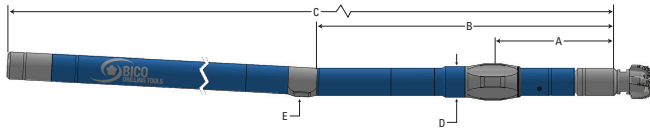


## 4-3/4" SS100 SR Fixed

7/8, 2.2 Stage

### G2 SBtB Bearing Assembly



#### Physical Data

Bit to Center of Stabilizer Blade	A	20.51 in (521 mm)
Bit to Bend	B	41.01 in (1,042 mm)
Overall Motor Length	C	16.2 ft (4.9 m)
Max OD of Motor at Stabilizer Upset	D	5.63 in (143 mm)
Radius at Kickpad	E	2.82 in (72 mm)
Max Effective OD of Slick Motor at Kickpad		4.88 in (124 mm)
Estimated Total Weight		735 lbs (330 kg)
Common Top Connection:		3-1/2" IF
Common Bottom Connection:		3-1/2" REG
Recommended Bit Sizes:		5-3/4" to 6-3/4" (146.1 - 171.5 mm)

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

Bend Angle (°)	Slick Motor			Stabilized 1/8" UG			Stabilized 1/4" UG		
	Hole Size (in)			Hole Size (in)			Hole Size (in)		
	6	6-1/2	6-3/4	6	6-1/2	6-3/4	6	6-1/2	6-3/4
0.39	-	-	-	4.2	5.1	5.5	2.5	3.4	3.8
0.78	5.1	-	-	7.9	8.8	9.3	6.2	7.1	7.5
1.15	9.1	5.8	4.1	11.5	12.4	12.8	9.7	10.6	11.1
1.50	12.9	9.6	7.9	14.8	15.7	16.2	13.3	14.0	14.4
1.83	16.5	13.1	11.4	18.6	18.9	19.3	17.3	17.1	17.6
2.12	19.7	16.3	14.6	22.1	21.6	22.1	20.8	19.9	20.3
2.38	22.5	19.1	17.4	25.3	24.4	24.6	24.0	23.1	22.8
2.60	24.9	21.5	19.8	28.0	27.1	26.7	26.7	25.8	25.3
2.77	26.7	23.3	21.6	30.0	29.1	28.7	28.7	27.8	27.4
2.90	28.1	24.7	23.0	31.6	30.7	30.2	30.3	29.4	28.9
2.97	28.9	25.5	23.8	32.4	31.5	31.1	31.1	30.2	29.8
3.00	29.2	25.8	24.1	32.8	31.9	31.5	31.5	30.6	30.2

Note: The maximum bend angle for rotary drilling is 1.83°. Refer to Section 5.xx for rotational guidelines.

## 4-3/4" SS100 SR Fixed

7/8, 2.2 Stage

#### 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

Recommended Operating Limits	Imperial	Metric
Flow Range	100 - 250 gpm	380 - 950 lpm
Rev. per Unit Volume (no load)	.571 rev/gal	.150 rev/l
Speed (no load)	57 - 143 rpm	

Performance Output	Imperial	Metric
Max Differential Pressure	550 psi	38 bar
Torque @ Max Pressure	2,660 ft-lbs	3,610 N-m
Power @ Max Pressure	72 hp	54 kW

#### Theoretical Performance Curve

