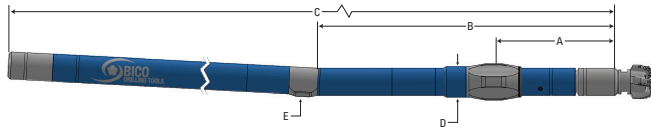


8" P100 Adjustable/Long-Fixed

7/8, 3.0 Stage

G1 Bearing Assembly



Physical Data

Bit to Center of Stabilizer Blade	A	38.54 in (979 mm)
Bit to Bend	B	100.96 in (2,564 mm)
Overall Motor Length	C	24.7 ft (7.5 m)
Max OD of Motor at Stabilizer Upset	D	9.88 in (251 mm)
Radius at Kickpad	E	4.25 in (108 mm)
Max Effective OD of Slick Motor at Kickpad		8.00 in (203 mm)
Estimated Total Weight:		3,085 lbs (1,400 kg)
Common Top Connection:		6-5/8" REG
Common Bottom Connection:		6-5/8" REG
Recommended Bit Sizes:		9-1/2" to 12-1/4" (241.3 - 311.2 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)	
	9-7/8	12-1/4	9-7/8	12-1/4	9-7/8	12-1/4
0.39	-	-	2.9	4.8	2.3	4.2
0.78	3.0	-	5.0	6.9	4.5	6.3
1.15	5.6	-	8.2	8.9	7.8	8.2
1.50	8.1	3.6	11.3	10.8	10.8	10.1
1.83	10.4	6.0	14.2	12.6	13.8	11.9
2.12	12.5	8.0	16.8	14.9	16.3	14.4
2.38	14.3	9.9	19.1	17.2	18.6	16.7
2.60	15.9	11.4	21.0	19.1	20.5	18.7
2.77	17.1	12.6	22.5	20.6	22.0	20.2
2.90	18.0	13.6	23.6	21.8	23.2	21.3
2.97	18.5	14.1	24.3	22.4	23.8	21.9
3.00	18.7	14.3	24.5	22.6	24.1	22.2

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

8" P100 Adjustable/Long-Fixed

7/8, 3.0 Stage

Maximum Motor Loads

		Continuous Operation	Ultimate Loading
WOB	lbs (kg)	77,100 (34,970)	-
Backreaming	lbs (kg)	39,000 (17,690)	-
Bit Overpull*	lbs (kg)	135,900 (61,640)	890,000 (403,700)
Body Overpull*	lbs (kg)	660,000 (229,370)	1,425,000 (646,370)

*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	400 - 900 gpm	1,515 - 3,410 lpm
Rev. per Unit Volume (no load)	.166 rev/gal	.044 rev/l
Speed (no load)	66 - 149 rpm	

Performance Output

	Imperial	Metric
Max Differential Pressure	450 psi	31 bar
Torque @ Max Pressure	7,465 ft-lbs	10,120 N-m
Power @ Max Pressure	212 hp	158 kW

Theoretical Performance Curve

