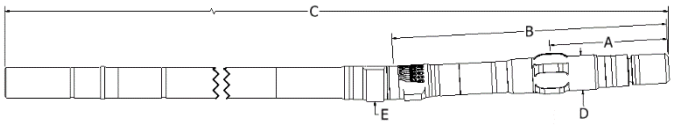
STABILDRILL

RVMA-71 : 7/8 Lobe 5.0 Stage



Dimensions

Bit to Stabilizer Center	A	27	in
Bit to Bend, ABH	B	63	in
Bit to Bend, Fixed	B	52	in
Bit to Top Sub	C	311	in
Body OD, Slick	D	7.13	in
Body OD, Stabilizer	D	7.88	in
Pad Radius, ABH	E	3.97	in
Pad Radius, Fixed	E	3.74	in
Bottom Connection		4-1/2 REG Box 6-5/8 REG Box 4-1/2 IF Pin	
Top Connection		4-1/2 IF Box 4-1/2 XH Box XT-39 Box	
Top Sub Float Bore		4R	

Recommended Operating Limits

Max WOB	109,000	lbf
Max Overpull, Backream	157,000	lbf
Max Overpull, Re-Run	252,000	lbf
Max Overpull, POOH	780,000	lbf

Performance Details	HR	XP	
Max Diff Pressure	1,130	1,250	psi
Max Torque	10,460	11,630	lbf-ft
Stall Torque	15,690	17,440	lbf-ft
Rotation	0.288	0.288	rev/gal
Flow Range	300-600	300-600	gpm
Speed Range	86-173	86-173	rpm

Predicted Build Rates (Adj.) – Degrees/100ft

Bend Setting	Slick Hole Size			Stabilized Hole Size		
Deg	8 1/2	8 3/4	9 7/8	8 1/2	8 3/4	9 7/8
0.39	1.9	1.1	-	2.7	2.9	3.9
0.78	5.0	4.2	-	5.4	5.6	6.6
1.15	8.0	7.2	3.8	8.0	8.2	9.2
1.50	10.8	10.0	6.6	10.8	10.6	11.6
1.83	13.4	12.7	9.2	13.4	12.9	13.8
2.12	15.7	15.0	11.5	15.7	15.0	15.8
2.38*	17.8	17.1	13.6	17.8	17.1	17.6
2.60*	19.6	18.8	15.4	19.6	18.8	19.1
2.77*	20.9	20.2	16.7	20.9	20.2	20.3
2.90*	22.0	21.2	17.8	22.0	21.2	21.2
2.97*	22.5	21.8	18.3	22.5	21.8	21.7
3.00*	22.8	22.0	18.6	22.8	22.0	21.9

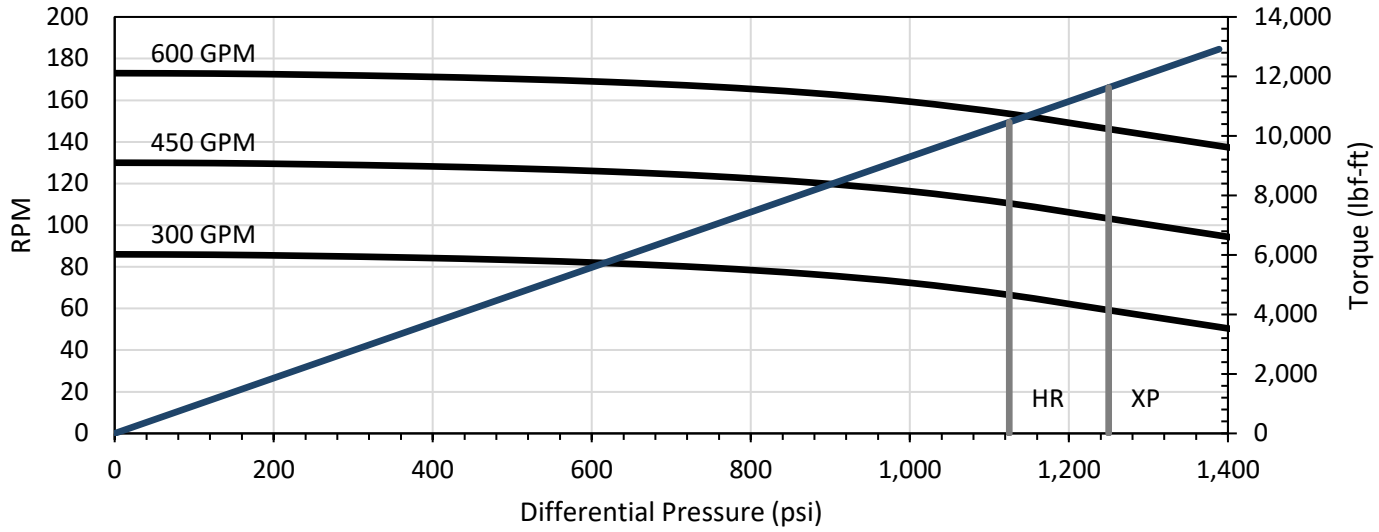
**Bend Setting not recommended for Rotary Drilling*

Predicted Build Rates (Fixed) – Degrees/100ft

Bend Setting	Slick Hole Size			Stabilized Hole Size		
Deg	8 1/2	8 3/4	9 7/8	8 1/2	8 3/4	9 7/8
0.78	2.5	1.6	-	5.7	5.9	6.9
1.15	5.5	4.6	-	8.3	8.6	9.5
1.50	8.3	7.4	3.4	10.9	11.1	12.1
1.75	10.3	9.4	5.4	12.7	12.9	13.9
1.83	10.9	10.0	6.0	13.3	13.5	14.5
2.00	12.3	11.4	7.4	14.5	14.7	15.7
2.12	13.3	12.4	8.3	15.3	15.6	16.5
2.25*	14.3	13.4	9.4	16.3	16.5	17.5
2.38*	15.3	14.4	10.4	17.2	17.4	18.4
2.50*	16.3	15.4	11.4	18.1	18.3	19.3

**Bend Setting not recommended for Rotary Drilling*

Theoretical Performance Curve



Performance curves based on testing at 70°F. Actual field performance may vary with field operation conditions.