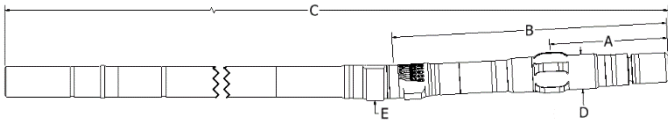


RVMA-71 : 4/5 Lobe 7.0 Stage



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	326 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 4-1/2 IF Box	
Top Connection	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	1,580	1,750 psi
Max Torque	9,090	10,100 lbf-ft
Stall Torque	13,630	15,150 lbf-ft
Rotation	0.497	0.497 rev/gal
Flow Range	300-600	300-600 gpm
Speed Range	149-300	149-300 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	1.8	-	-	2.6	2.8	3.6
0.78	4.7	4.0	-	5.1	5.3	6.2
1.15	7.6	6.8	3.6	7.6	7.8	8.7
1.50	10.2	9.5	6.2	10.2	10.1	11.0
1.83	12.7	12.0	8.7	12.7	12.3	13.2
2.12	14.9	14.2	10.9	14.9	14.2	15.1
2.38*	16.9	16.2	12.9	16.9	16.2	16.8
2.60*	18.6	17.9	14.6	18.6	17.9	18.2
2.77*	19.9	19.1	15.9	19.9	19.1	19.4
2.90*	20.9	20.1	16.9	20.9	20.1	20.2
2.97*	21.4	20.7	17.4	21.4	20.7	20.7
3.00*	21.6	20.9	17.6	21.6	20.9	20.9

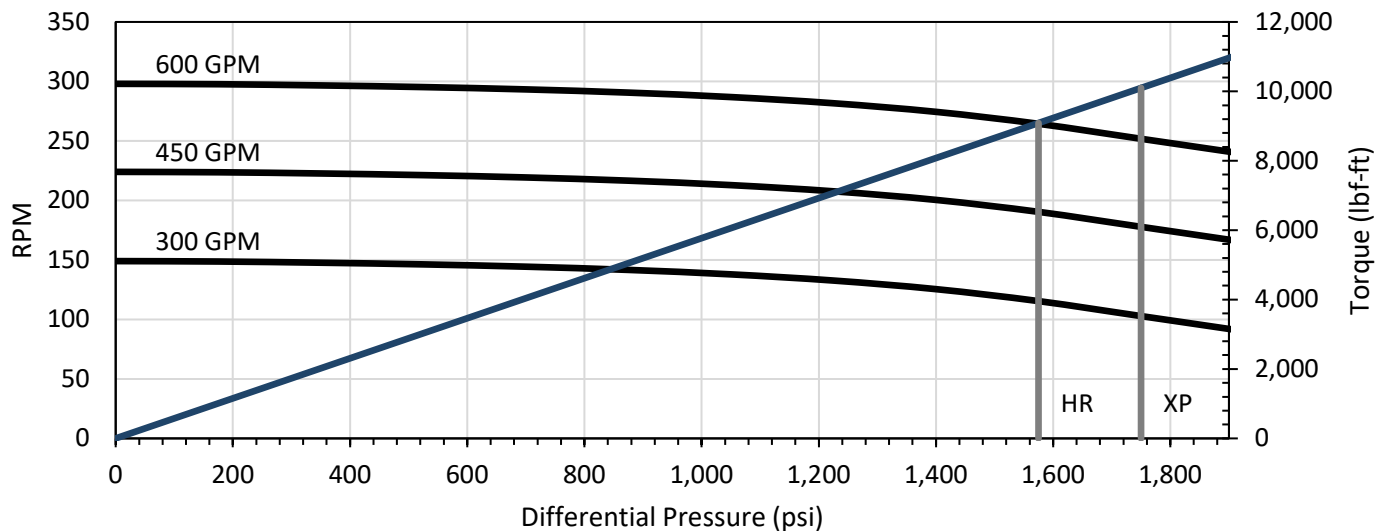
*Bend Setting not recommended for Rotary Drilling

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	2.4	1.6	-	5.4	5.6	6.5
1.15	5.2	4.4	-	7.9	8.1	9.0
1.50	7.9	7.0	3.2	10.4	10.6	11.4
1.75	9.8	8.9	5.1	12.1	12.3	13.2
1.83	10.4	9.5	5.7	12.6	12.8	13.7
2.00	11.7	10.8	7.0	13.8	14.0	14.9
2.12	12.6	11.8	7.9	14.6	14.8	15.7
2.25*	13.6	12.7	8.9	15.5	15.7	16.6
2.38*	14.6	13.7	9.9	16.4	16.6	17.5
2.50*	15.5	14.6	10.8	17.3	17.5	18.3

*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.