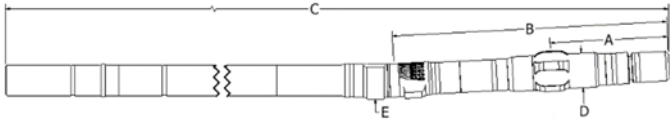


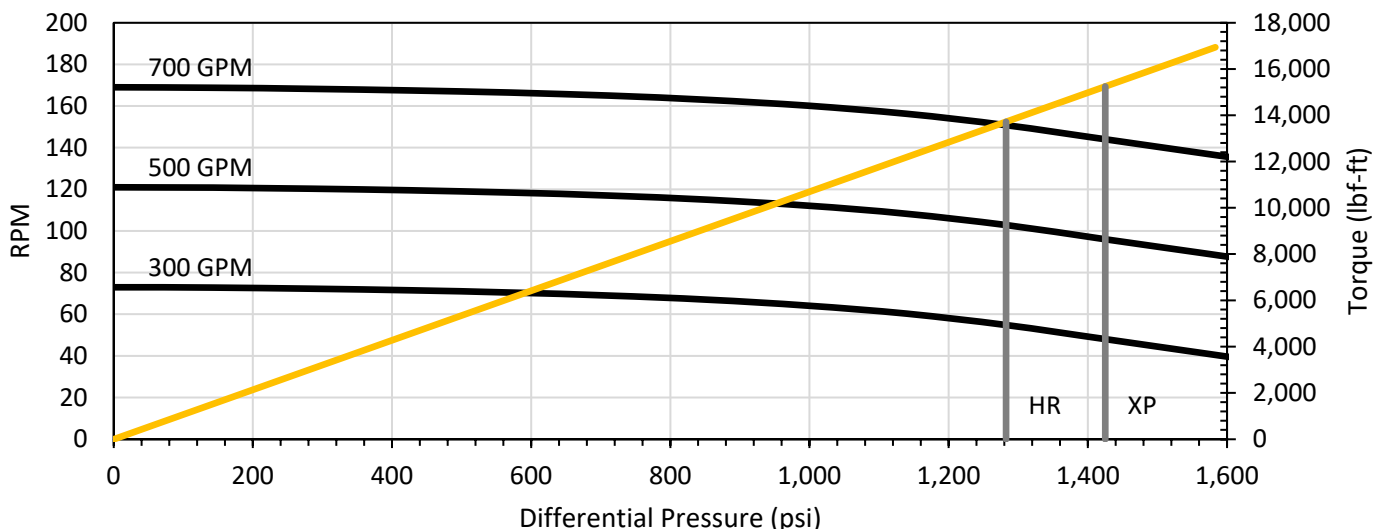
RVMA-71 : 7/8 Lobe 5.7 Stage

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	376 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	1,280	1,430 psi
Max Torque	13,720	15,240 lbf-ft
Stall Torque	20,580	22,870 lbf-ft
Rotation	0.242	0.242 rev/gal
Flow Range	300-700	300-700 gpm
Speed Range	73-169	73-169 rpm

Theoretical Performance Curve


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

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
0.39	1.5	-	-	2.2	2.3	3.0
0.78	4.0	3.4	-	4.4	4.6	5.2
1.15	6.5	5.8	3.0	6.6	6.8	7.4
1.50	8.8	8.1	5.3	8.8	8.8	9.4
1.83	10.9	10.3	7.5	10.9	10.7	11.4
2.12	12.8	12.2	9.4	12.8	12.4	13.1
2.38*	14.5	13.9	11.1	14.5	13.9	14.6
2.60*	16.0	15.3	12.5	16.0	15.3	15.9
2.77*	17.1	16.5	13.6	17.1	16.5	16.8
2.90*	17.9	17.3	14.5	17.9	17.3	17.6
2.97*	18.4	17.8	15.0	18.4	17.8	18.0
3.00*	18.6	18.0	15.2	18.6	18.0	18.2

*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
0.78	2.1	1.3	-	4.6	4.8	5.4
1.15	4.5	3.8	-	6.9	7.0	7.7
1.50	6.8	6.1	2.8	9.0	9.1	9.8
1.75	8.5	7.7	4.4	10.5	10.6	11.3
1.83	9.0	8.2	4.9	11.0	11.1	11.8
2.00	10.1	9.4	6.1	12.0	12.2	12.8
2.12	10.9	10.1	6.8	12.7	12.9	13.5
2.25*	11.7	11.0	7.7	13.5	13.7	14.3
2.38*	12.6	11.9	8.5	14.3	14.5	15.1
2.50*	13.4	12.6	9.3	15.0	15.2	15.8

*Bend Setting not recommended for Rotary Drilling