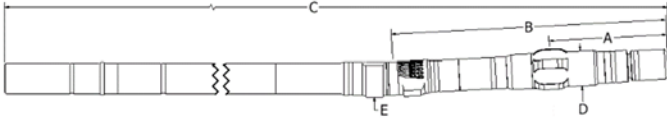


RVMA-85 : 7/8 Lobe 3.4 Stage



Dimensions

Bit to Stabilizer Center	A	39 in
Bit to Bend, ABH	B	90 in
Bit to Bend, Fixed	B	76 in
Bit to Top Sub	C	452 in
Body OD, Slick	D	8.50 in
Body OD, Stabilizer	D	9.50 in
Pad Radius, ABH	E	4.56 in
Pad Radius, Fixed	E	4.34 in
Bottom Connection	6-5/8 REG Box 6-5/8 REG Pin	
Top Connection	6-5/8 REG Box	
Top Sub Float Bore	5F-6R	

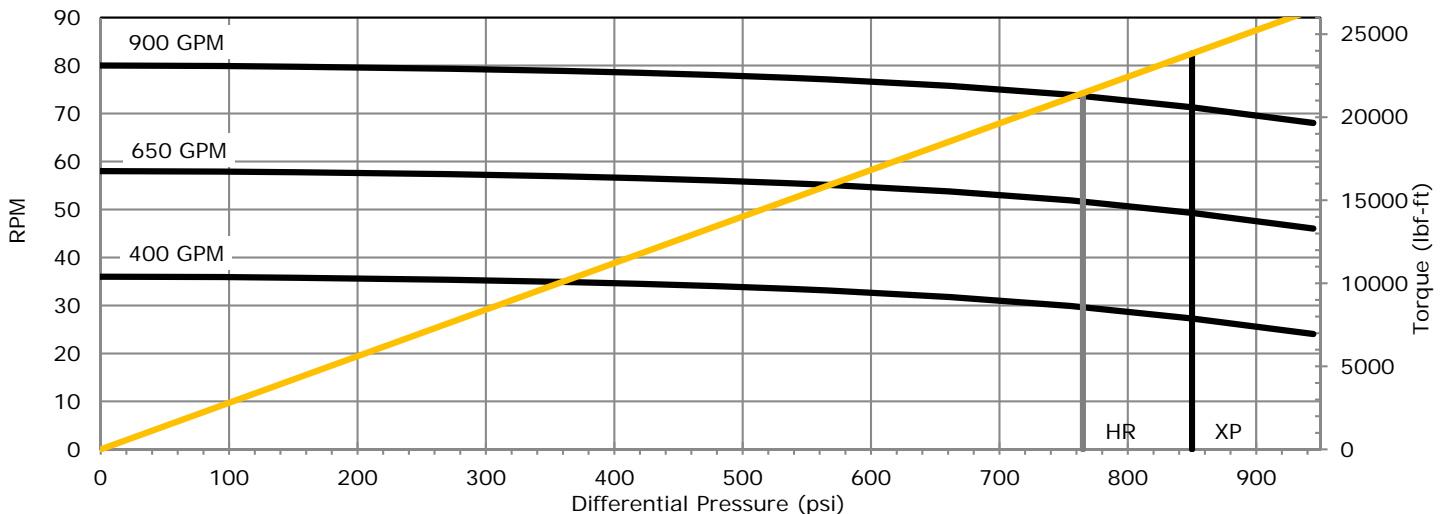
Recommended Operating Limits

Max WOB	164,000 lbf
Max Overpull, Backream	236,000 lbf
Max Overpull, Re-Run	440,000 lbf
Max Overpull, POOH	1,172,000 lbf

Performance Details

	HR	XP
Max Diff Pressure	770	850 psi
Max Torque	21,450	23,600 lbf-ft
Stall Torque	32,180	35,400 lbf-ft
Rotation	0.089	0.089 rev/gal
Flow Range	400-900	400-900 gpm
Speed Range	35-81	35-81 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		
	9 7/8	10 5/8	12 1/4	9 7/8	10 5/8	12 1/4
Deg	1.3	-	-	2.0	2.3	3.0
0.39	3.4	2.3	-	3.8	4.1	4.8
0.78	5.5	4.3	1.9	5.6	5.9	6.6
1.15	7.4	6.3	3.8	7.4	7.5	8.2
1.83	9.2	8.1	5.6	9.2	9.1	9.8
2.12	10.8	9.7	7.2	10.8	10.5	11.1
2.38*	12.2	11.1	8.7	12.2	11.7	12.4
2.60*	13.4	12.3	9.9	13.4	12.8	13.4
2.77*	14.4	13.2	10.8	14.4	13.6	14.2
2.90*	15.1	13.9	11.5	15.1	14.2	14.8
2.97*	15.5	14.3	11.9	15.5	14.5	15.2
3.00*	15.6	14.5	12.1	15.6	14.6	15.3

*Bend Setting not recommended for Rotary Drilling

Predicted Build Rates (Fixed) – Degrees/100ft

Bend Setting	Slick Hole Size			Stabilized Hole Size		
	9 7/8	10 5/8	12 1/4	9 7/8	10 5/8	12 1/4
Deg	2.3	1.0	-	4.0	4.3	4.9
0.78	4.3	3.0	-	5.8	6.1	6.8
1.15	6.3	5.0	2.2	7.5	7.8	8.5
1.75	7.6	6.3	3.5	8.8	9.1	9.7
1.83	8.1	6.8	4.0	9.2	9.5	10.1
2.00	9.0	7.7	4.9	10.0	10.3	11.0
2.12	9.7	8.4	5.6	10.6	10.9	11.6
2.25*	10.4	9.1	6.3	11.2	11.5	12.2
2.38*	11.1	9.8	7.0	11.9	12.2	12.8
2.50*	11.7	10.4	7.6	12.5	12.8	13.4

*Bend Setting not recommended for Rotary Drilling