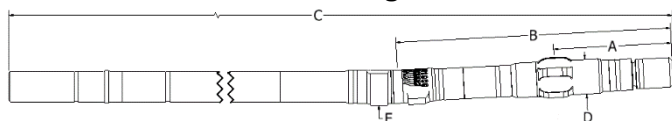


RVMA-85 : 6/7 Lobe 5.0 Stage



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	NBR	HPX
Max Diff Pressure	750	1180 psi
Max Torque	11,030	17,280 lbf-ft
Stall Torque	16,540	27,210 lbf-ft
Rotation	0.170	0.170 rev/gal
Flow Range	400-900	400-900 gpm
Speed Range	70-150	70-150 rpm

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

Bend Setting	Slick Hole Size			Stabilized Hole Size		
Deg	9 7/8	10 5/8	12 1/4	9 7/8	10 5/8	12 1/4
0.39	1.5	-	-	2.2	2.6	3.5
0.78	3.9	2.7	-	4.3	4.7	5.5
1.15	6.2	4.9	2.2	6.2	6.6	7.4
1.50	8.4	7.1	4.3	8.4	8.4	9.3
1.83	10.4	9.1	6.4	10.4	10.1	11.0
2.12	12.2	10.9	8.2	12.2	11.6	12.5
2.38*	13.8	12.5	9.8	13.8	13.0	13.8
2.60*	15.1	13.9	11.1	15.1	14.1	15.0
2.77*	16.2	14.9	12.2	16.2	15.0	15.8
2.90*	17.0	15.7	13.0	17.0	15.7	16.5
2.97*	17.4	16.2	13.4	17.4	16.2	16.9
3.00*	17.6	16.3	13.6	17.6	16.3	17.0

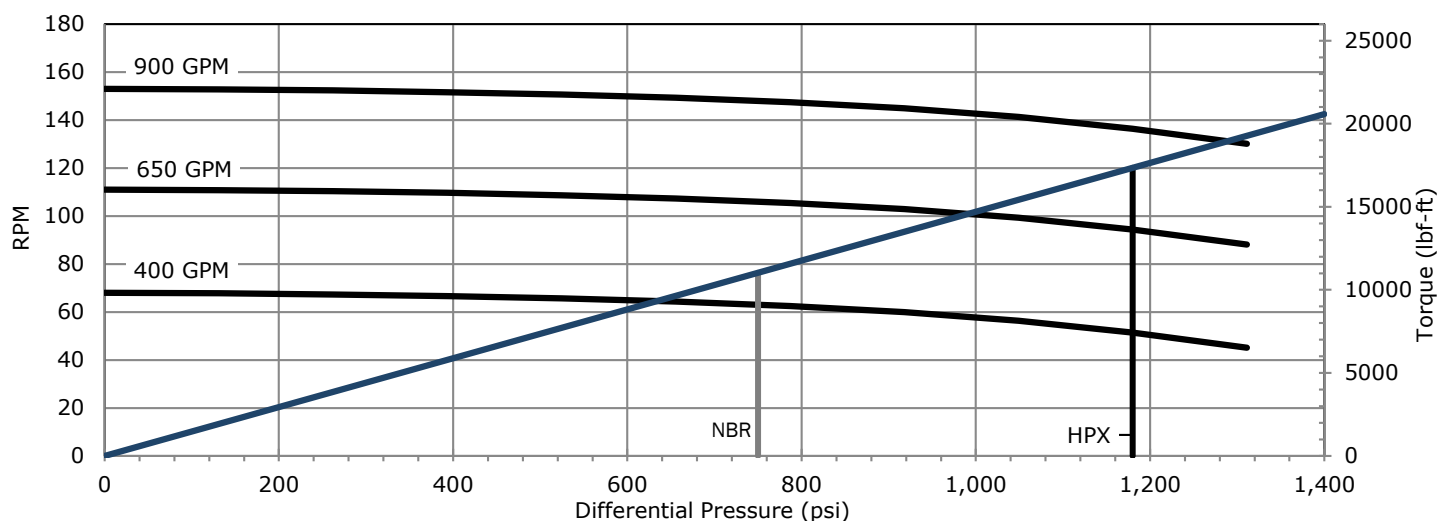
*Bend Setting not recommended for Rotary Drilling

Predicted Build Rates (Fixed) – Degrees/100ft

Bend Setting	Slick Hole Size			Stabilized Hole Size		
Deg	9 7/8	10 5/8	12 1/4	9 7/8	10 5/8	12 1/4
0.78	2.6	1.1	-	4.5	4.9	5.7
1.15	4.9	3.4	-	6.5	6.9	7.7
1.50	7.0	5.6	2.4	8.4	8.8	9.6
1.75	8.6	7.1	4.0	9.7	10.1	11.0
1.83	9.1	7.6	4.5	10.2	10.6	11.4
2.00	10.1	8.7	5.5	11.1	11.5	12.3
2.12	10.9	9.4	6.3	11.8	12.1	13.0
2.25*	11.7	10.2	7.1	12.5	12.9	13.7
2.38*	12.5	11.0	7.9	13.2	13.6	14.4
2.50*	13.2	11.8	8.6	13.8	14.2	15.1

*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.