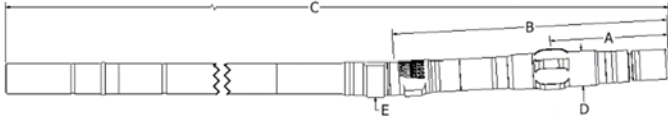


RVTF-67 : 7/8 Lobe 6.8 Stage



Dimensions

Bit to Stabilizer Center	A	33 in
Bit to Bend, ABH	B	73.6 in
Bit to Bend, Fixed	B	60.4 in
Bit to Top Sub	C	353 in
Body OD, Slick	D	6.87 in
Body OD, Stabilizer	D	6.87 in
Pad Radius, ABH	E	3.63 in
Pad Radius, Fixed	E	3.56 in
Bottom Connection	4-1/2 REG Box 4-1/2 IF Pin	
Top Connection	4-1/2 IF Box 4-1/2 XH Box	
Top Sub Float Bore	4R & 5R	

Recommended Operating Limits

Max WOB	127,000 lbf
Max Overpull, Backream	183,000 lbf
Max Overpull, Re-Run	183,000 lbf
Max Overpull, POOH	751,000 lbf

Performance Details

	HR	XP
Max Diff Pressure	1,530	1,700 psi
Max Torque	14,630	16,260 lbf-ft
Stall Torque	21,950	24,390 lbf-ft
Rotation	0.304	0.304 rev/gal
Flow Range	300-600	300-600 gpm
Speed Range	91-182	91-182 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
0.39	2.5	2.0	-	4.8	4.9	5.6
0.78	4.2	3.6	1.1	6.2	6.3	7.0
1.15	5.8	5.3	2.8	7.6	7.8	8.4
1.50	7.5	6.9	4.4	9.1	9.2	9.9
1.83	8.3	7.8	5.3	9.8	10.0	10.6
2.12	9.1	8.6	6.1	10.5	10.7	11.3
2.38*	10.0	9.4	6.9	11.3	11.4	12.1
2.60*	10.7	10.2	7.7	11.9	12.1	12.8
2.77*	12.4	11.8	9.4	13.4	13.5	14.2
2.90*	13.2	12.7	10.2	14.1	14.3	14.9
2.97*	14.0	13.5	11.0	14.8	15.0	15.6
3.00*	2.5	2.0	-	4.8	4.9	5.6

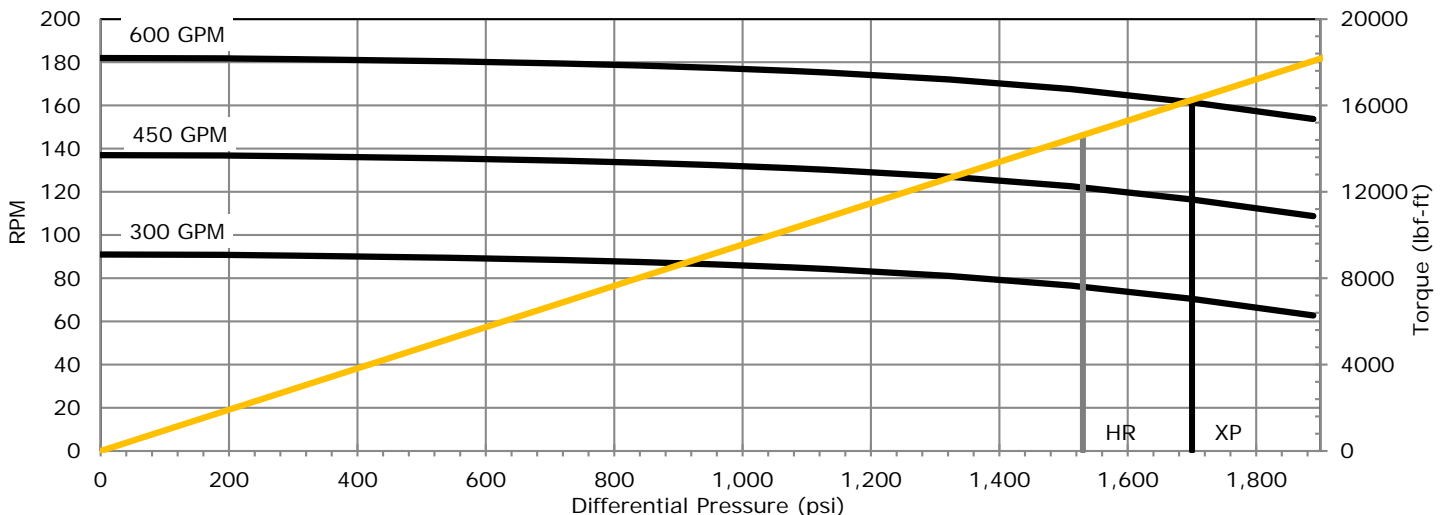
*Bend Setting not recommended for Rotary Drilling

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
0.75	-	-	-	2.8	2.9	3.6
1.00	1.8	1.2	-	5.1	5.3	6.0
1.25	4.2	3.6	-	7.4	7.5	8.2
1.50	6.5	5.9	3.0	9.5	9.6	10.3
1.63	8.7	8.1	5.1	11.5	11.6	12.3
1.75	10.6	10.0	7.0	13.2	13.4	14.0
1.88	12.3	11.7	8.8	14.8	14.9	15.6
2.00	13.8	13.1	10.2	16.1	16.2	16.9
2.25*	14.9	14.2	11.3	17.1	17.3	17.9
2.38*	15.8	15.1	12.2	17.9	18.1	18.7
2.50*	16.2	15.6	12.6	18.3	18.5	19.1

*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.