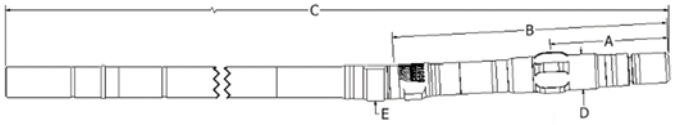
RVTF-47 : 7/8 Lobe 2.6 Stage



Dimensions

Bit to Stabilizer Center	A	16	in
Bit to Bend, ABH	B	57.5	in
Bit to Bend, Fixed	B	43.8	in
Bit to Top Sub	C	339	in
Body OD, Slick	D	4.818	in
Body OD, Stabilizer	D	5.50	in
Pad Radius, ABH	E	2.71	in
Pad Radius, Fixed	E	2.55	in
Bottom Connection	3-1/2 REG Box 3-1/2 IF Pin		
Top Connection	3-1/2 REG Box 3-1/2 IF Box, 3-1/2 XH Box		
Top Sub Float Bore	2F-3R, 3F, 3-1/2 IF		

Recommended Operating Limits

Max WOB	43,000	lbf
Max Overpull, Backream	62,000	lbf
Max Overpull, Re-Run	62,000	lbf
Max Overpull, POOH	320,000	lbf

Performance Details	HR	XP	
Max Diff Pressure	590	650	psi
Max Torque	5,250	5,780	lbf-ft
Stall Torque	7,880	8,670	lbf-ft
Rotation	0.263	0.263	rev/gal
Flow Range	150-300	150-300	gpm
Speed Range	39-79	39-79	rpm

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

Bend Setting	Slick Hole Size			Stabilized Hole Size		
Deg	6	6 1/4	6 3/4	6	6 1/4	6 3/4
0.39	1.5	-	-	2.1	2.3	2.6
0.78	4.3	3.5	1.9	4.5	4.7	5.0
1.15	6.9	6.2	4.6	6.9	7.0	7.3
1.50	9.5	8.7	7.1	9.5	9.2	9.5
1.83	11.8	11.0	9.5	11.8	11.2	11.5
2.12	13.9	13.1	11.5	13.9	13.1	13.3
2.38*	15.8	15.0	13.4	15.8	15.0	15.0
2.60*	17.3	16.5	15.0	17.3	16.5	16.3
2.77*	18.5	17.8	16.2	18.5	17.8	17.4
2.90*	19.5	18.7	17.1	19.5	18.7	18.2
2.97*	20.0	19.2	17.6	20.0	19.2	18.6
3.00*	20.2	19.4	17.8	20.2	19.4	18.8

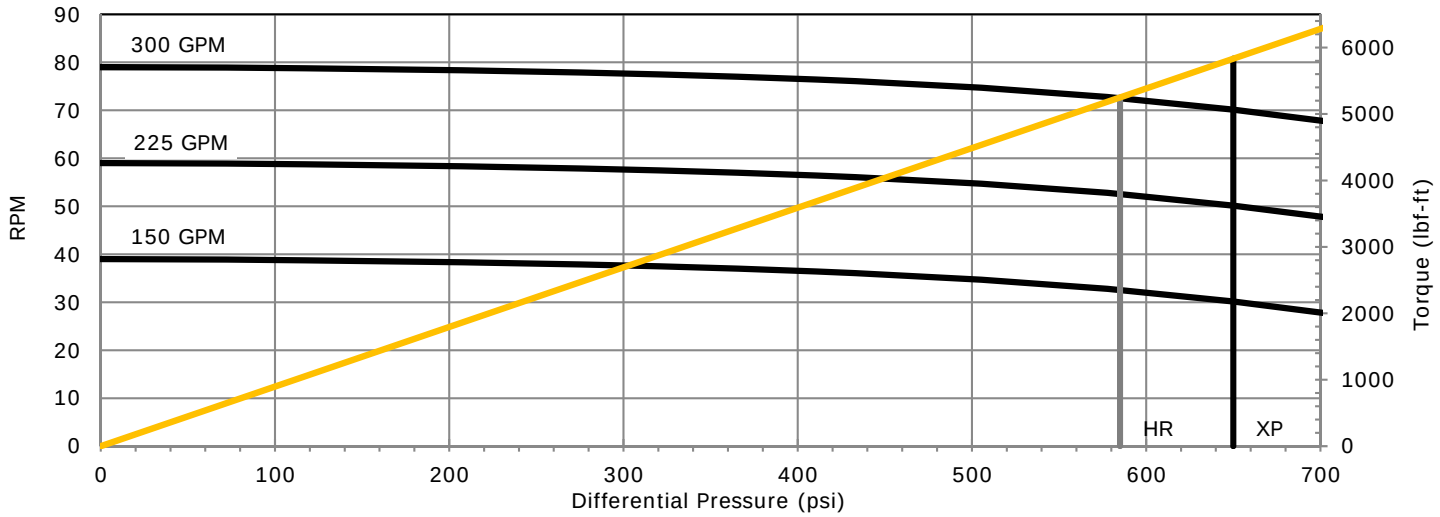
**Bend Setting not recommended for Rotary Drilling*

Predicted Build Rates (Fixed) – Degrees/100ft

Bend Setting	Slick Hole Size			Stabilized Hole Size		
Deg	6	6 1/4	6 3/4	6	6 1/4	6 3/4
0.75	2.1	1.1	-	-	-	-
1.00	3.9	2.9	-	6.2	6.4	6.7
1.25	5.7	4.7	2.7	7.8	8.0	8.3
1.50	7.4	6.5	4.5	9.5	9.6	10.0
1.63	8.4	7.4	5.4	10.3	10.5	10.8
1.75	9.2	8.2	6.3	11.1	11.3	11.6
1.83	9.8	8.8	6.8	11.6	11.8	12.1
2.00	11.0	10.0	8.1	12.7	12.9	13.2
2.25*	12.8	11.8	9.8	14.4	14.5	14.9
2.38*	13.8	12.8	10.8	15.2	15.4	15.7
2.50*	14.6	13.6	11.6	16.0	16.2	16.5

**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.