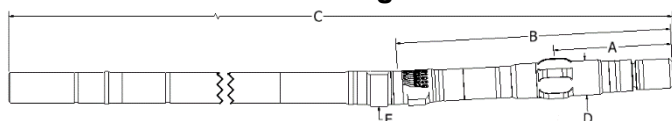


RVDF-50 : 7/8 Lobe 2.6 Stage



Dimensions

Bit to Stabilizer Center	A	30 in
Bit to Bend, ABH	B	52.8 in
Bit to Bend, Fixed	B	42.3 in
Bit to Top Sub	C	342 in
Body OD, Slick	D	5.06 in
Body OD, Stabilizer	D	5.06 in
Pad Radius, ABH	E	2.66 in
Pad Radius, Fixed	E	2.67 in
Bottom Connection	3-1/2 REG Box 3-1/2 IF Pin 3-1/2 Athens 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	60,000 lbf
Max Overpull, Backream	87,000 lbf
Max Overpull, Re-Run	125,000 lbf
Max Overpull, POOH	421,000 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	-	-	1.8	2.1	2.3	2.6
0.78	3.6	2.7	1.0	4.6	4.8	5.1
1.15	6.2	5.4	3.7	7.0	7.1	7.5
1.50	8.8	7.9	6.2	9.2	9.4	9.7
1.83	11.1	10.3	8.6	11.3	11.5	11.8
2.12	13.2	12.4	10.7	13.2	13.3	13.7
2.38*	15.1	14.2	12.5	15.1	15.0	15.3
2.60*	16.7	15.8	14.1	16.7	16.4	16.7
2.77*	17.9	17.0	15.3	17.9	17.5	17.8
2.90*	18.8	18.0	16.3	18.8	18.3	18.7
2.97*	19.3	18.5	16.8	19.3	18.8	19.1
3.00*	19.5	18.7	17.0	19.5	19.0	19.3

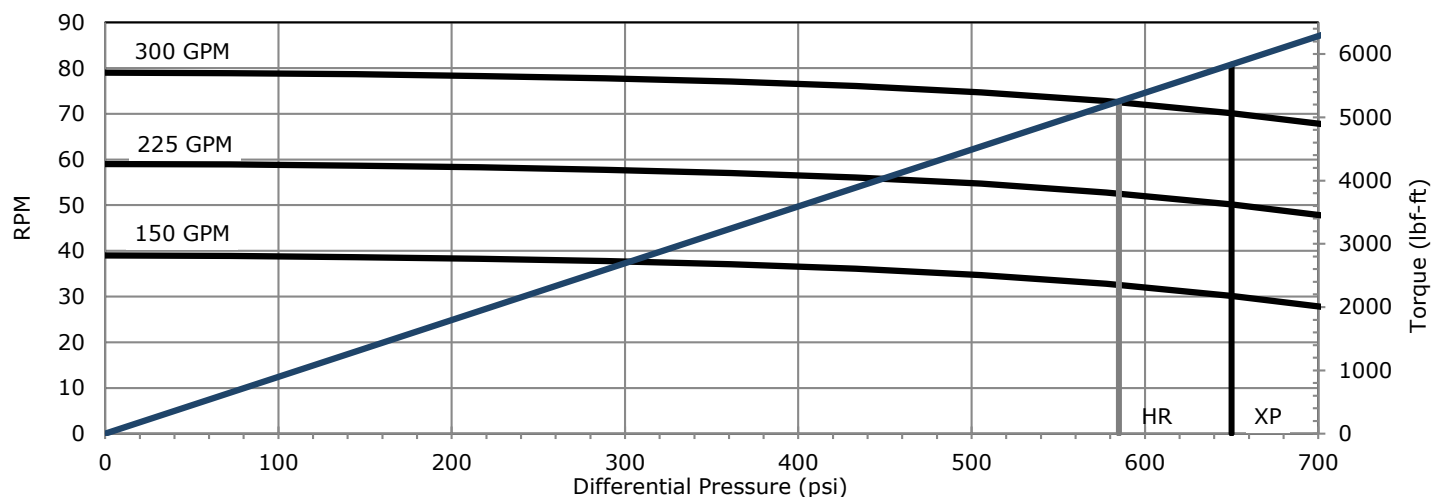
*Bend Setting not recommended for Rotary Drilling

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	3.0	2.0	-	4.6	4.8	5.1
1.15	5.9	4.8	2.8	7.3	7.4	7.8
1.50	8.4	7.4	5.3	9.6	9.8	10.1
1.75	10.2	9.2	7.1	11.2	11.4	11.7
1.83	10.8	9.7	7.7	11.8	11.9	12.3
2.00	12.0	10.9	8.9	12.9	13.1	13.4
2.12	12.8	11.8	9.8	13.7	13.9	14.2
2.25*	13.8	12.7	10.7	14.6	14.7	15.1
2.38*	14.7	13.7	11.6	15.4	15.6	15.9
2.50*	15.6	14.5	12.5	16.2	16.4	16.7

*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.