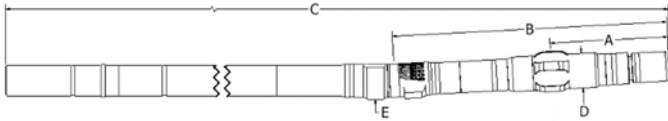


RVDF-50 : 5/6 Lobe 8.3 Stage



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	356 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	1,870	2,030 psi
Max Torque	4,810	5,290 lbf-ft
Stall Torque	7,220	7,940 lbf-ft
Rotation	1.000	1.000 rev/gal
Flow Range	100-300	100-300 gpm
Speed Range	100-300	100-300 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
0.39	-	-	-	2.0	2.2	2.5
0.78	3.4	2.6	1.0	4.4	4.6	4.9
1.15	6.0	5.2	3.5	6.7	6.9	7.2
1.50	8.4	7.6	6.0	8.9	9.0	9.4
1.83	10.7	9.9	8.2	10.9	11.1	11.4
2.12	12.7	11.9	10.3	12.7	12.9	13.2
2.38*	14.5	13.7	12.0	14.5	14.5	14.8
2.60*	16.0	15.2	13.6	16.0	15.8	16.1
2.77*	17.2	16.4	14.7	17.2	16.9	17.2
2.90*	18.1	17.3	15.6	18.1	17.7	18.0
2.97*	18.6	17.7	16.1	18.6	18.1	18.4
3.00*	18.8	18.0	16.3	18.8	18.3	18.6

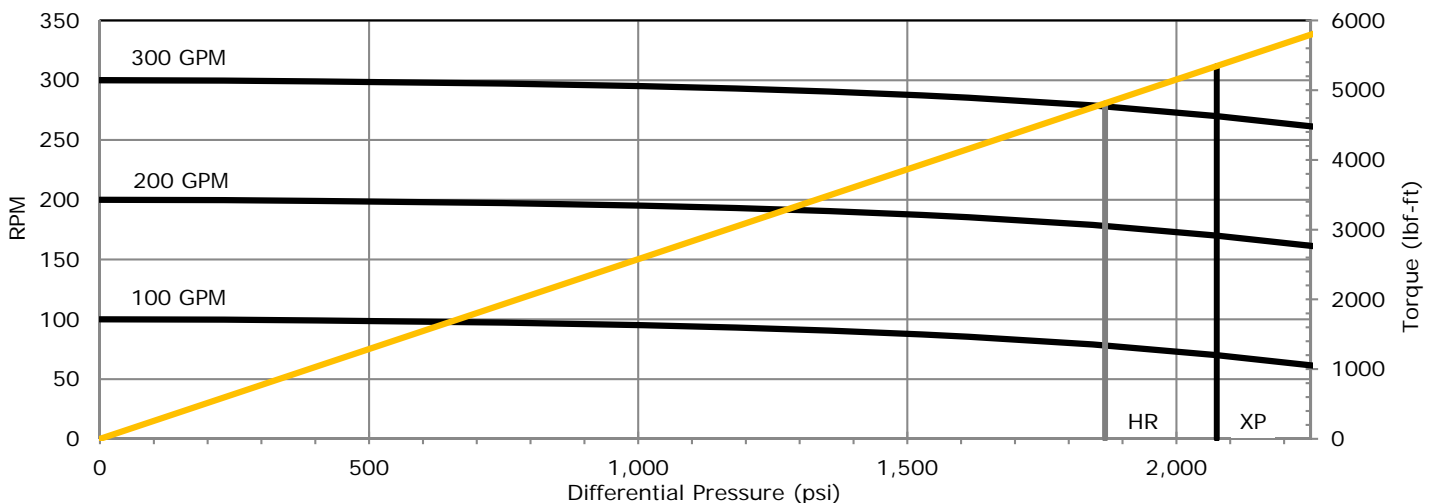
*Bend Setting not recommended for Rotary Drilling

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
0.75	2.9	1.9	-	4.4	4.6	4.9
1.15	5.6	4.6	2.7	7.0	7.1	7.5
1.50	8.0	7.1	5.1	9.2	9.4	9.7
1.75	9.8	8.8	6.8	10.8	11.0	11.3
1.83	10.3	9.3	7.4	11.3	11.5	11.8
2.00	11.5	10.5	8.6	12.4	12.6	12.9
2.12	12.3	11.3	9.4	13.2	13.4	13.7
2.25*	13.2	12.2	10.3	14.0	14.2	14.5
2.38*	14.1	13.1	11.2	14.9	15.0	15.3
2.50*	15.0	14.0	12.0	15.6	15.8	16.1

*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.