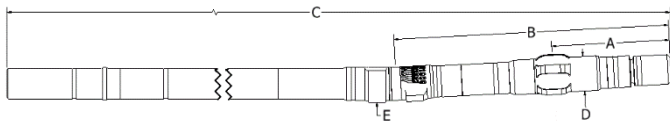


RVDF-52 : 7/8 Lobe 6.8 Stage



Dimensions

Bit to Stabilizer Center	A	30 in (0.8 m)
Bit to Bend, ABH	B	52.8 in (1.3 m)
Bit to Bend, Fixed	B	42.3 in (1.1 m)
Bit to Top Sub	C	383 in (9.7 m)
Body OD, Slick	D	5.25 in (133 mm)
Body OD, Stabilizer	D	5.25 in (133 mm)
Pad Radius, ABH	E	2.66 in (68 mm)
Pad Radius, Fixed	E	2.67 in (68 mm)
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 (26,700 daN)
Max Overpull, Backream	87,000 lbf (38,700 daN)
Max Overpull, Re-Run	125,000 lbf (55,600 daN)
Max Overpull, POOH	421,000 lbf (187,300 daN)

Performance Details

HR

Max Diff Pressure	1,530 psi (10,500 kPa)
Max Torque	8,460 lbf-ft (11,500 N-m)
Stall Torque	12,690 lbf-ft (17,200 N-m)
Rotation	0.460 rev/gal (0.122 rev/L)
Flow Range	175-375 gpm (660-1,420 lpm)
Speed Range	80-180 rpm

Predicted Build Rates (Adj.) – Degrees/100ft (30m)

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	-	-	-	2.9	3.2	3.7
0.78	4.1	3.1	1.0	6.0	6.2	6.8
1.15	7.3	6.3	4.3	8.9	9.1	9.7
1.50	10.4	9.4	7.3	11.6	11.9	12.4
1.83	13.3	12.3	10.2	14.2	14.5	15.0
2.12	15.8	14.8	12.7	16.5	16.8	17.3
2.38*	18.1	17.1	15.0	18.6	18.8	19.3
2.60*	20.0	19.0	16.9	20.3	20.5	21.1
2.77*	21.5	20.5	18.4	21.6	21.9	22.4
2.90*	22.6	21.6	19.5	22.6	22.9	23.4
2.97*	23.2	22.2	20.2	23.2	23.5	24.0
3.00*	23.5	22.5	20.4	23.5	23.7	24.2

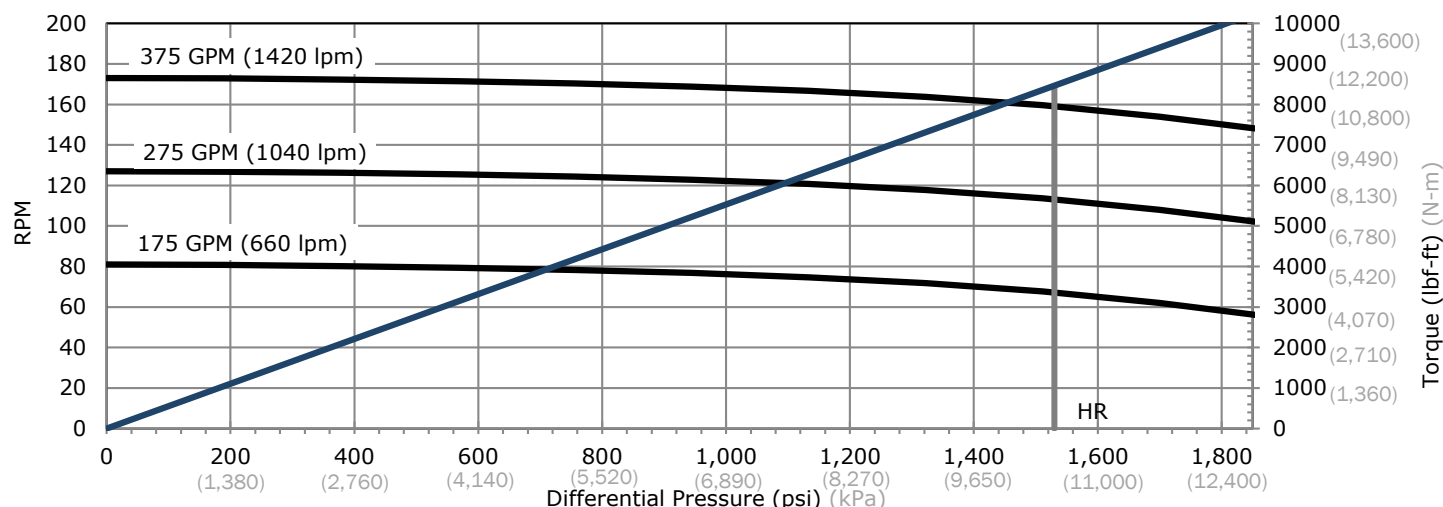
*Bend Setting not recommended for Rotary Drilling

Predicted Build Rates (Fixed) – Degrees/100ft (30m)

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	3.4	2.2	-	6.0	6.3	6.8
1.15	6.9	5.7	3.2	9.3	9.6	10.1
1.50	10.0	8.7	6.3	12.2	12.5	13.0
1.75	12.2	10.9	8.4	14.3	14.5	15.1
1.83	12.9	11.6	9.1	14.9	15.2	15.7
2.00	14.4	13.1	10.6	16.3	16.6	17.1
2.12	15.4	14.2	11.7	17.3	17.6	18.1
2.25*	16.5	15.3	12.8	18.4	18.7	19.2
2.38*	17.7	16.4	13.9	19.5	19.7	20.3
2.50*	18.7	17.5	15.0	20.5	20.7	21.2

*Bend Setting not recommended for Rotary Drilling

Theoretical Performance Curve



Performance curves based on testing at 70°F (21°C). Actual field performance may vary with field operation conditions.