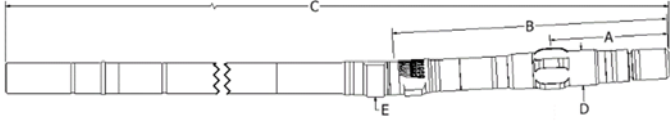


RVDF-96: 7/8 Lobe 4.8 Stage



Dimensions

Bit to Stabilizer Center	A	45 in
Bit to Bend, ABH	B	75 in
Bit to Top Sub	C	429 in
Body OD, Slick	D	9.63 in
Body OD, Stabilizer	D	11.0 in
Pad Radius, ABH	E	5.07 in
Bottom Connection	6-5/8 REG Box 6-5/8 REG Pin 7-5/8 REG Box	
Top Connection	6-5/8 REG Box 7/58 REG Box	
Top Sub Float Bore	5F-6R	

Recommended Operating Limits

Max WOB	261,000 lbf
Max Overpull, Backream	377,000 lbf
Max Overpull, Re-Run	721,000 lbf
Max Overpull, POOH	1,465,000 lbf

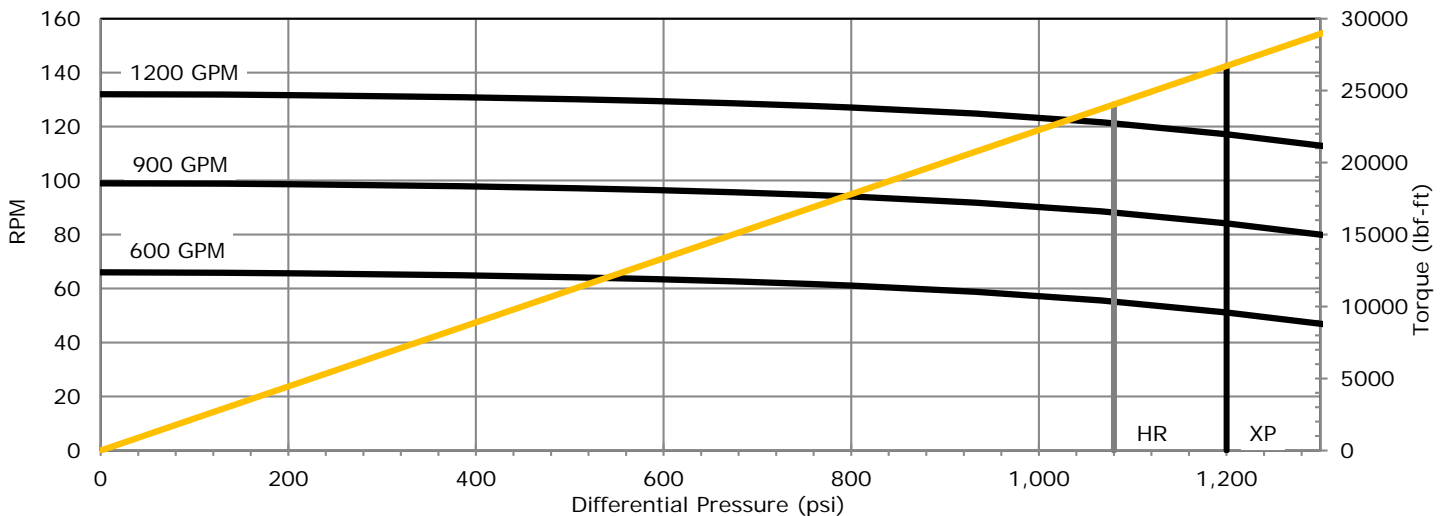
Performance Details	HR	XP
Max Diff Pressure	1080	1190 psi
Max Torque	24,050	26,460 lbf-ft
Stall Torque	36,070	39,680 lbf-ft
Rotation	0.110	0.110 rev/gal
Flow Range	600-1,200	600-1,200 gpm
Speed Range	66-132	66-132 rpm

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

Bend Setting	Slick Hole Size			Stabilized Hole Size		
	12 1/4	14 3/4	17 1/2	12 1/4	14 3/4	17 1/2
Deg						
0.39	-	-	-	2.7	3.7	4.8
0.78	-	-	-	4.6	5.6	6.7
1.15	2.9	-	-	6.5	7.5	8.6
1.50	4.8	-	-	8.2	9.2	10.3
1.83	6.6	2.4	-	9.9	10.9	12.0
2.12	8.1	4.0	-	11.3	12.3	13.4
2.38*	9.5	5.4	-	12.6	13.6	14.7
2.60*	10.7	6.6	2.0	13.7	14.7	15.8
2.77*	11.6	7.5	2.9	14.6	15.6	16.7
2.90*	12.3	8.2	3.6	15.2	16.2	17.3
2.97*	12.7	8.6	4.0	15.5	16.6	17.7
3.00*	12.9	8.7	4.2	15.7	16.7	17.8

*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.