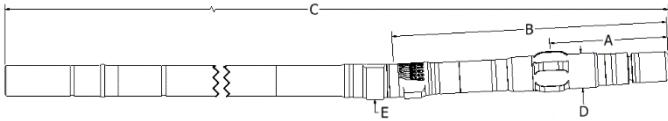


RVDF-96: 5/6 Lobe 4.0 Stage



Dimensions

Bit to Stabilizer Center	A	45 in
Bit to Bend, ABH	B	75 in
Bit to Top Sub	C	411 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

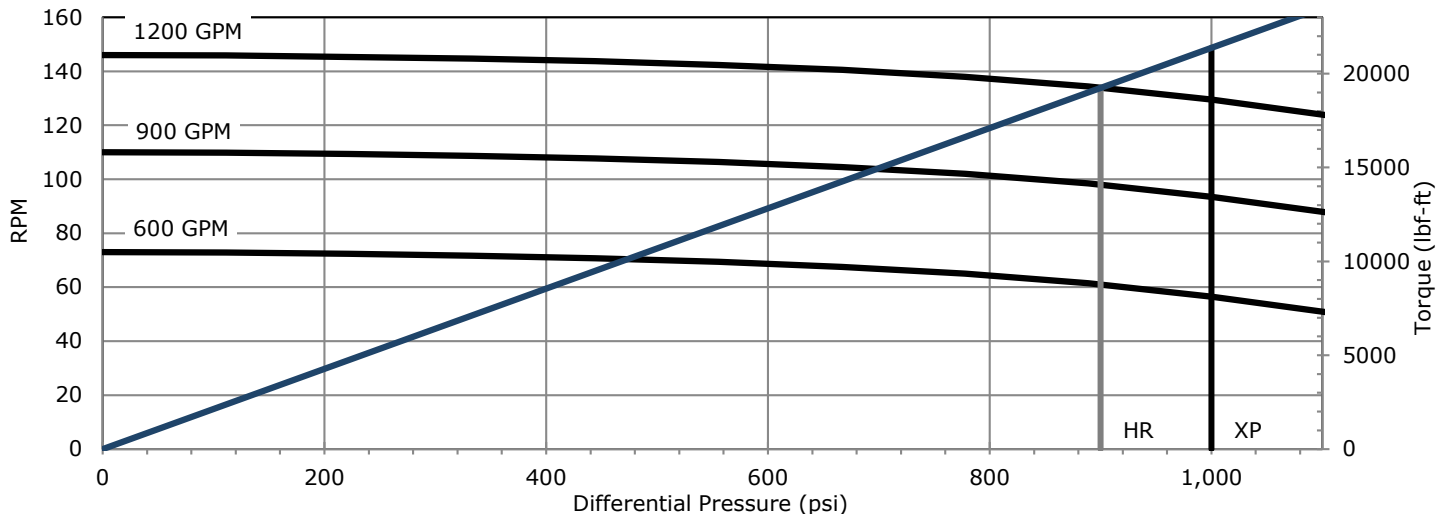
	HR	XP
Max Diff Pressure	900	990 psi
Max Torque	19,240	21,160 lbf-ft
Stall Torque	28,850	31,740 lbf-ft
Rotation	0.122	0.122 rev/gal
Flow Range	600-1,200	600-1,200 gpm
Speed Range	73-150	73-150 rpm

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

Bend Setting	Slick Hole Size			Stabilized Hole Size		
Deg	12 1/4	14 3/4	17 1/2	12 1/4	14 3/4	17 1/2
0.39	-	-	-	2.8	3.9	5.2
0.78	-	-	-	4.9	6.0	7.2
1.15	3.0	-	-	6.8	7.9	9.1
1.50	5.0	-	-	8.6	9.7	10.9
1.83	6.9	2.5	-	10.3	11.4	12.6
2.12	8.5	4.2	-	11.8	12.9	14.1
2.38*	10.0	5.6	-	13.2	14.3	15.5
2.60*	11.2	6.9	2.1	14.3	15.4	16.6
2.77*	12.1	7.8	3.1	15.2	16.3	17.5
2.90*	12.9	8.5	3.8	15.9	17.0	18.2
2.97*	13.3	8.9	4.2	16.2	17.3	18.5
3.00*	13.4	9.1	4.4	16.4	17.5	18.7

*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.