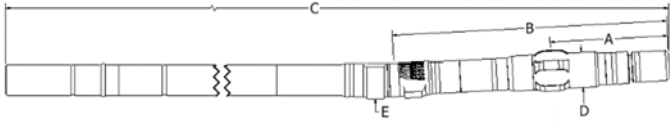


### RVDF-96: 7/8 Lobe 3.9 Stage



#### Dimensions

Bit to Stabilizer Center	A	45 in
Bit to Bend, ABH	B	75 in
Bit to Top Sub	C	483 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

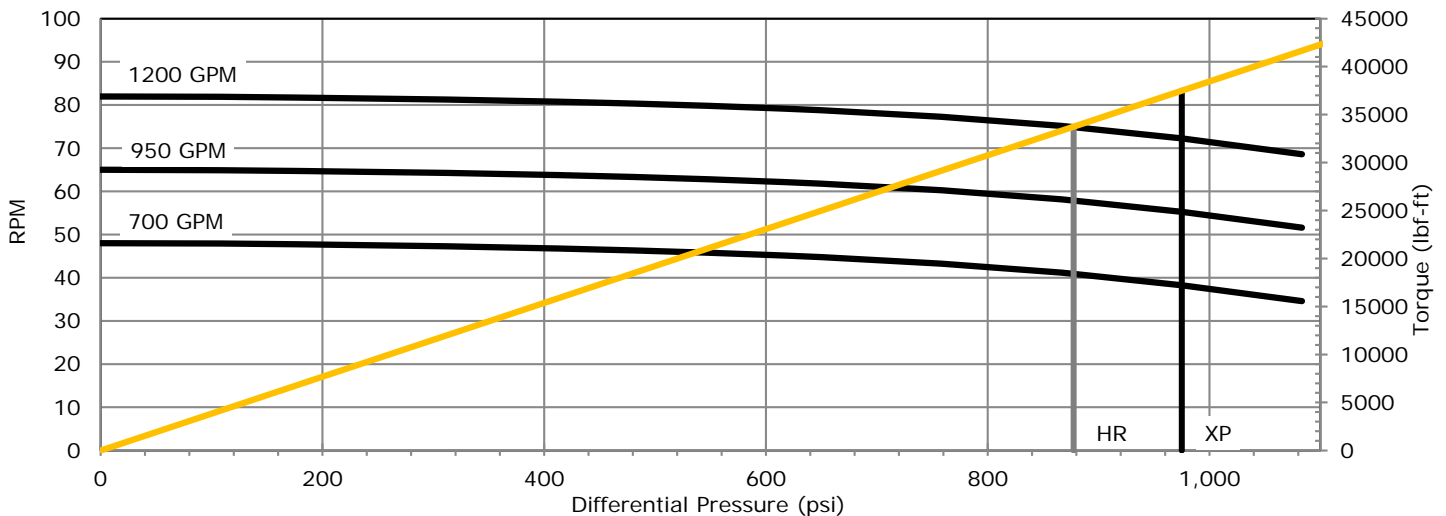
Performance Details	HR	XP
Max Diff Pressure	880	970 psi
Max Torque	33,750	37,130 lbf-ft
Stall Torque	50,630	55,700 lbf-ft
Rotation	0.068	0.068 rev/gal
Flow Range	700-1,200	700-1,200 gpm
Speed Range	47-82	47-82 rpm

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

Bend Setting Deg	Slick Hole Size			Stabilized Hole Size		
	12 1/4	14 3/4	17 1/2	12 1/4	14 3/4	17 1/2
<b>0.39</b>	-	-	-	2.3	3.1	4.0
<b>0.78</b>	-	-	-	4.0	4.8	5.7
<b>1.15</b>	2.6	-	-	5.7	6.5	7.4
<b>1.50</b>	4.2	-	-	7.3	8.1	9.0
<b>1.83</b>	5.8	2.1	-	8.8	9.6	10.4
<b>2.12</b>	7.2	3.5	-	10.1	10.9	11.7
<b>2.38*</b>	8.5	4.8	-	11.2	12.0	12.9
<b>2.60*</b>	9.5	5.8	1.8	12.2	13.0	13.9
<b>2.77*</b>	10.4	6.7	2.6	13.0	13.8	14.7
<b>2.90*</b>	11.0	7.3	3.2	13.6	14.4	15.2
<b>2.97*</b>	11.3	7.6	3.6	13.9	14.7	15.6
<b>3.00*</b>	11.5	7.8	3.7	14.0	14.8	15.7

\*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.