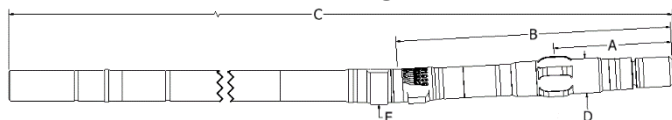


RVEN-96 : 7/8 Lobe 3.9 Stage



Dimensions

Bit to Stabilizer Center	A	50 in
Bit to Bend, ABH	B	89.5 in
Bit to Bend, Fixed	B	79.7 in
Bit to Top Sub	C	446 in
Body OD, Slick	D	9.62 in
Body OD, Stabilizer	D	10.75 in
Pad Radius, ABH	E	5.2 in
Pad Radius, Fixed	E	5.1 in
Bottom Connection	6-5/8 REG Box 7-5/8 REG Box	
Top Connection	6-5/8 REG Box	
Top Sub Float Bore	6R	

Recommended Operating Limits

Max WOB	185,000 lbf
Max Overpull, Backream	267,000 lbf
Max Overpull, Re-Run	553,000 lbf
Max Overpull, POOH	1,210,000 lbf

Performance Details

HP

Max Diff Pressure	920 psi
Max Torque	35,250 lbf-ft
Stall Torque	55,520 lbf-ft
Rotation	0.070 rev/gal
Flow Range	700-1200 gpm
Speed Range	50-80 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	-	-	-	2.5	3.4	4.4
0.78	1.8	-	-	4.3	5.2	6.2
1.15	3.7	-	-	6.0	6.9	8.0
1.50	5.5	2.0	-	7.6	8.6	9.6
1.83	7.2	3.7	-	9.2	10.1	11.1
2.12	8.7	5.2	1.5	10.5	11.4	12.5
2.38*	10.0	6.6	2.8	11.7	12.6	13.7
2.60*	11.2	7.7	3.9	12.7	13.7	14.7
2.77*	12.0	8.6	4.8	13.5	14.4	15.5
2.90*	12.7	9.3	5.5	14.1	15.1	16.1
2.97*	13.1	9.6	5.8	14.4	15.4	16.4
3.00*	13.2	9.8	6.0	14.6	15.5	16.5

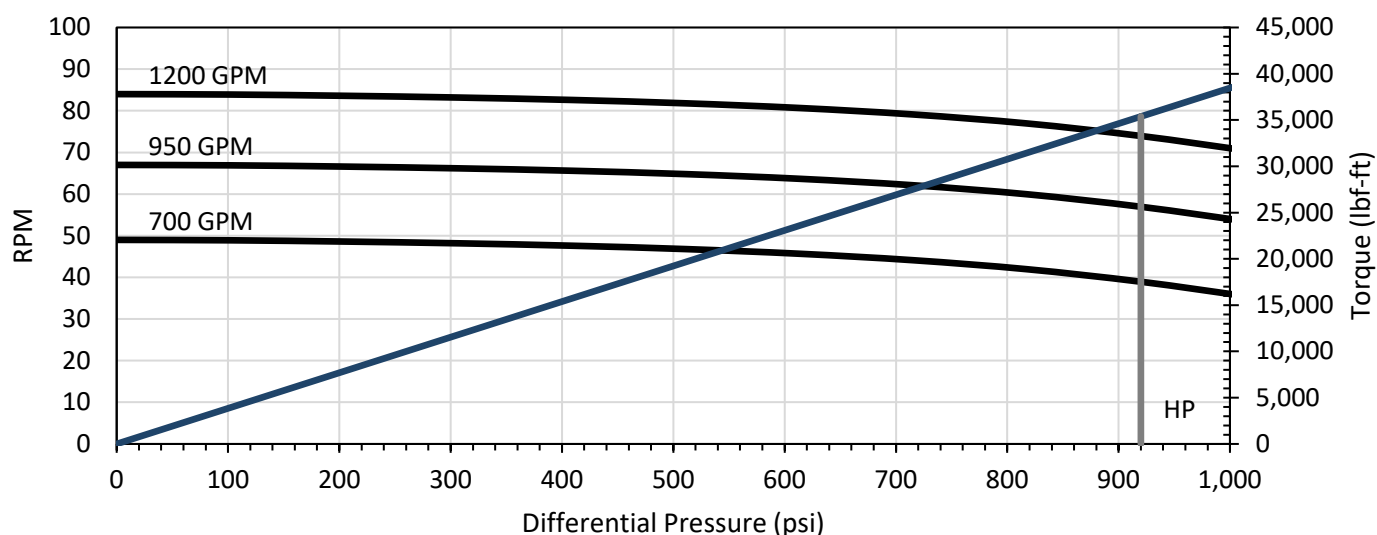
*Bend Setting not recommended for Rotary Drilling

Predicted Build Rates (Fixed) – 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						
0.78	-	-	-	4.4	5.3	6.3
1.15	2.9	-	-	6.1	7.1	8.1
1.50	4.7	-	-	7.8	8.7	9.8
1.75	6.0	2.3	-	9.0	9.9	11.0
1.83	6.4	2.7	-	9.4	10.3	11.3
2.00	7.3	3.5	-	10.2	11.1	12.2
2.12	7.9	4.2	-	10.8	11.7	12.7
2.25*	8.6	4.8	-	11.4	12.3	13.3
2.38*	9.3	5.5	1.3	12.0	12.9	14.0
2.50*	9.9	6.1	2.0	12.6	13.5	14.5

*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.