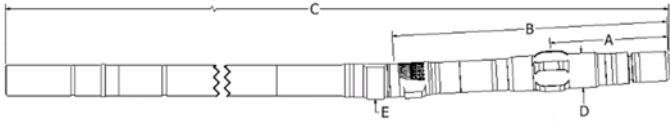


**RVEN-96 : 7/8 Lobe 3.9 Stage**



**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	90,000 lbf
Max Overpull, Backream	130,000 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		
	Deg	12 1/4	14 3/4	17 1/2	12 1/4	14 3/4
<b>0.39</b>	0.3	3.7	7.5	2.5	3.4	4.4
<b>0.78</b>	1.8	1.7	5.5	4.3	5.2	6.2
<b>1.15</b>	3.7	0.2	3.6	6.0	6.9	8.0
<b>1.50</b>	5.5	2.0	1.7	7.6	8.6	9.6
<b>1.83</b>	7.2	3.7	0.0	9.2	10.1	11.1
<b>2.12</b>	8.7	5.2	1.5	10.5	11.4	12.5
<b>2.38*</b>	10.0	6.6	2.8	11.7	12.6	13.7
<b>2.60*</b>	11.2	7.7	3.9	12.7	13.7	14.7
<b>2.77*</b>	12.0	8.6	4.8	13.5	14.4	15.5
<b>2.90*</b>	12.7	9.3	5.5	14.1	15.1	16.1
<b>2.97*</b>	13.1	9.6	5.8	14.4	15.4	16.4
<b>3.00*</b>	13.2	9.8	6.0	14.6	15.5	16.5

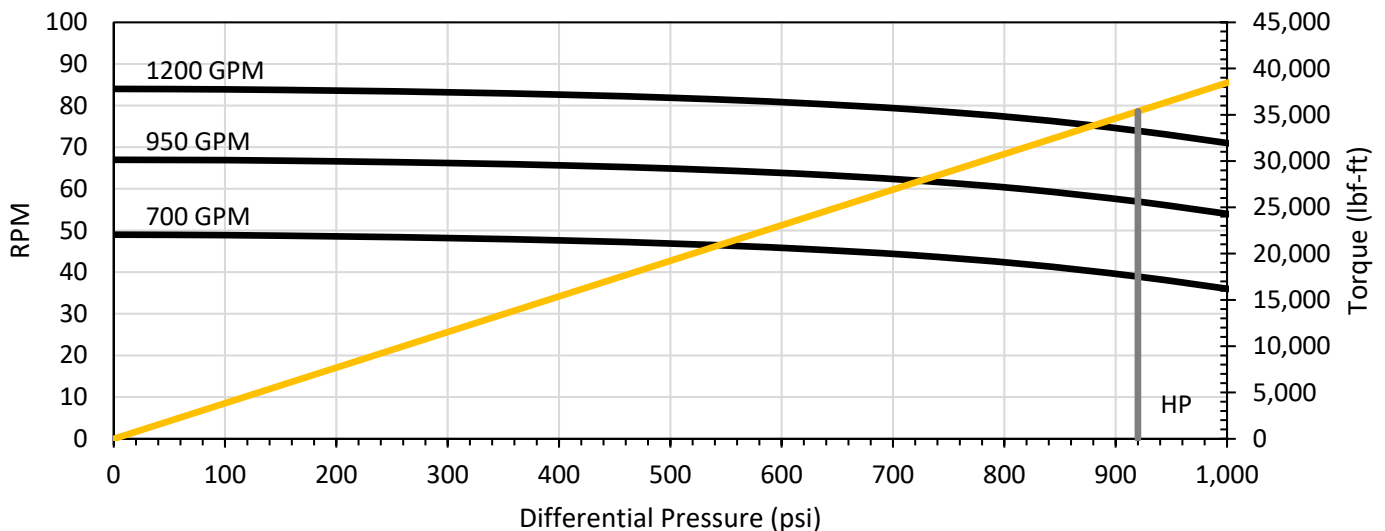
\*Bend Setting not recommended for Rotary Drilling

**Predicted Build Rates (Fixed) – Degrees/100ft**

Bend Setting	Slick Hole Size			Stabilized Hole Size		
	Deg	12 1/4	14 3/4	17 1/2	12 1/4	14 3/4
<b>0.78</b>	1.0	2.8	6.9	4.4	5.3	6.3
<b>1.15</b>	2.9	0.8	5.0	6.1	7.1	8.1
<b>1.50</b>	4.7	1.0	3.2	7.8	8.7	9.8
<b>1.75</b>	6.0	2.3	1.9	9.0	9.9	11.0
<b>1.83</b>	6.4	2.7	1.5	9.4	10.3	11.3
<b>2.00</b>	7.3	3.5	0.6	10.2	11.1	12.2
<b>2.12</b>	7.9	4.2	0.0	10.8	11.7	12.7
<b>2.25*</b>	8.6	4.8	0.7	11.4	12.3	13.3
<b>2.38*</b>	9.3	5.5	1.3	12.0	12.9	14.0
<b>2.50*</b>	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.