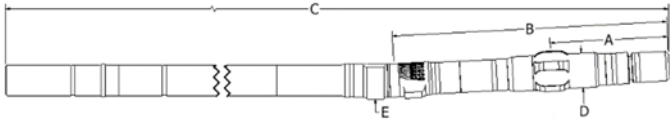


**RVEN-86 : 7/8 Lobe 3.4 Stage**

**Dimensions**

Bit to Stabilizer Center	A	NA in
Bit to Bend, Fixed	B	76 in
Bit to Top Sub	C	472 in
Body OD, Slick	D	8.62 in
Pad Radius, Fixed	E	4.25 in
Bottom Connection		4-1/2 REG Box 6-5/8 REG Box 4-1/2 IF Pin
Top Connection		4-1/2 IF Box 4-1/2 XH Box
Top Sub Float Bore		4R

**Recommended Operating Limits**

Max WOB	158,000 lbf
Max Overpull, Backream	228,000 lbf
Max Overpull, Re-Run	286,000 lbf
Max Overpull, POOH	847,000 lbf

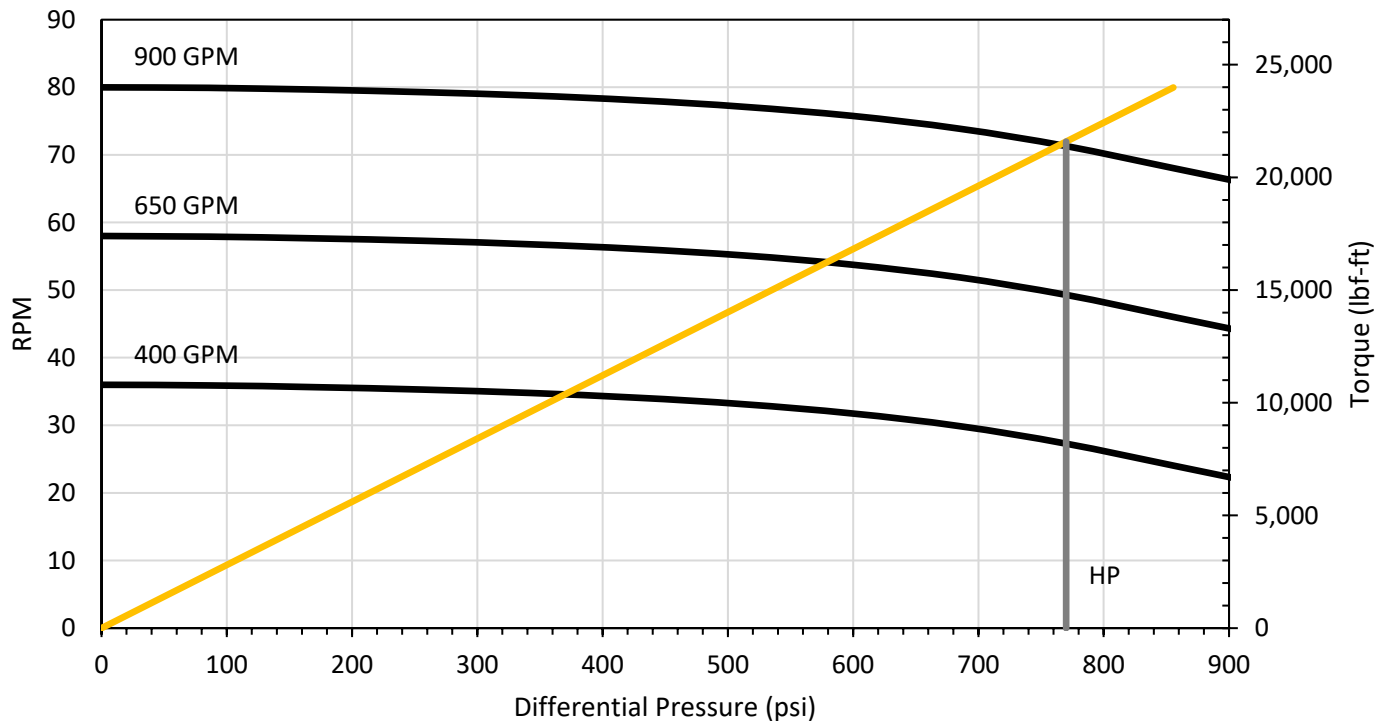
**Predicted Build Rates (Fixed) – Degrees/100ft**

Bend Setting	Slick Hole Size			Stabilized Hole Size		
	Deg	9 7/8	10 5/8	12 1/4	9 7/8	10 5/8
<b>0.78</b>	1.9	0.7	1.8	3.3	3.5	4.0
<b>1.15</b>	3.7	2.6	0.0	4.9	5.1	5.6
<b>1.50</b>	5.4	4.3	1.8	6.4	6.6	7.1
<b>1.75</b>	6.7	5.5	3.0	7.5	7.7	8.2
<b>1.83</b>	7.1	5.9	3.4	7.8	8.0	8.5
<b>2.00</b>	7.9	6.7	4.2	8.5	8.8	9.3
<b>2.12</b>	8.5	7.3	4.8	9.0	9.3	9.8
<b>2.25*</b>	9.1	8.0	5.5	9.6	9.8	10.3
<b>2.38*</b>	9.8	8.6	6.1	10.2	10.4	10.9
<b>2.50*</b>	10.4	9.2	6.7	10.7	10.9	11.4

\*Bend Setting not recommended for Rotary Drilling

**Performance Details**

Performance Details	HP
Max Diff Pressure	770 psi
Max Torque	21,450 lbf-ft
Stall Torque	32,180 lbf-ft
Rotation	0.089 rev/gal
Flow Range	400-900 gpm
Speed Range	36-80 rpm

**Theoretical Performance Curve**


Performance curves based on testing at 70°F. Actual field performance may vary with field operation conditions.