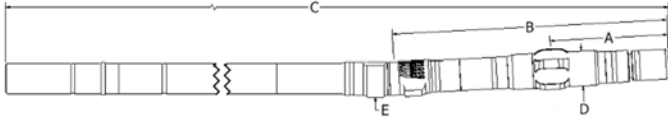


**RVEN-70 : 7/8 Lobe 3.3 Stage**



**Dimensions**

Bit to Stabilizer Center	A	27 in
Bit to Bend, Fixed	B	48 in
Bit to Top Sub	C	367 in
Body OD, Slick	D	7.0 in
Body OD, Stabilizer	D	7.5 in
Pad Radius, Fixed	E	3.75 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	49,000 lbf
Max Overpull, Backream	71,000 lbf
Max Overpull, Re-Run	325,000 lbf
Max Overpull, POOH	630,000 lbf

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

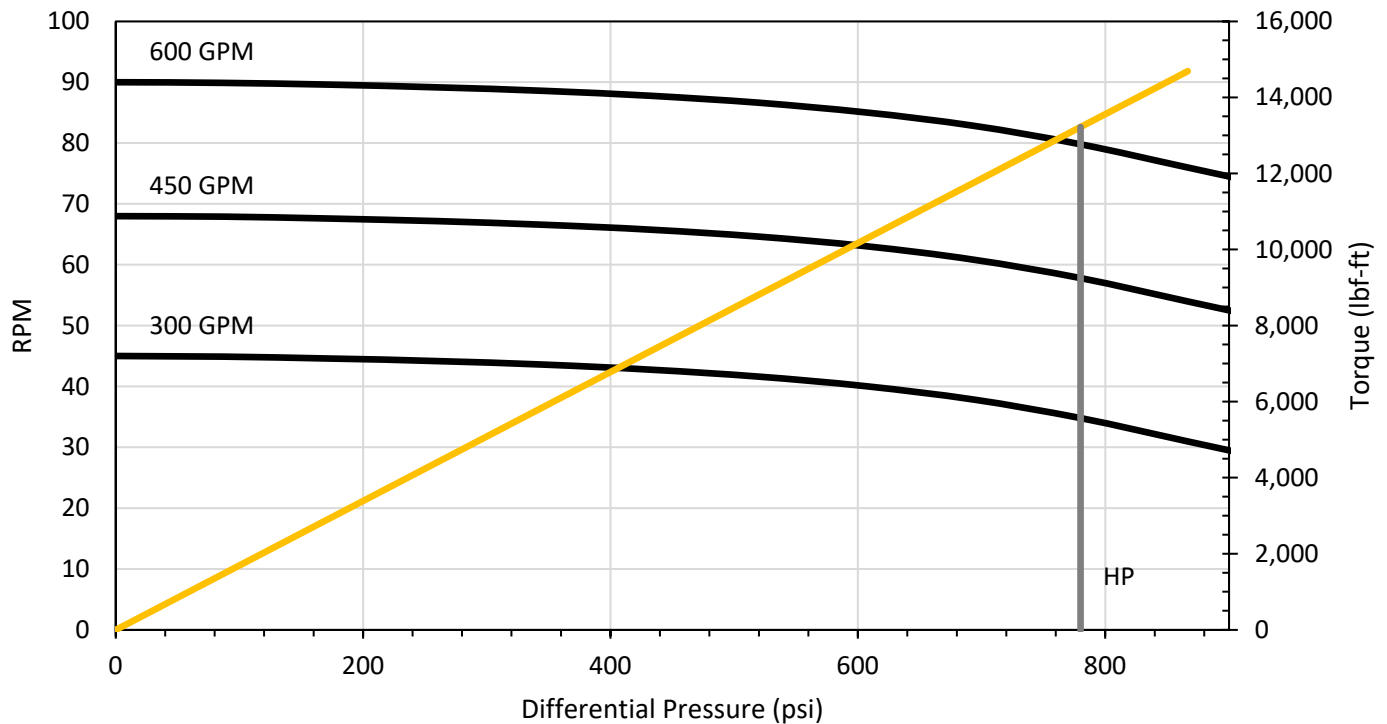
Bend Setting	Slick Hole Size			Stabilized Hole Size		
	Deg	8 1/2	8 3/4	9 7/8	8 1/2	8 3/4
<b>0.78</b>	2.2	1.4	2.0	4.8	4.9	5.5
<b>1.15</b>	4.5	3.8	0.4	7.0	7.1	7.7
<b>1.50</b>	6.8	6.0	2.6	9.0	9.2	9.8
<b>1.75</b>	8.3	7.6	4.2	10.5	10.7	11.3
<b>1.83</b>	8.8	8.1	4.7	11.0	11.1	11.7
<b>2.00</b>	9.9	9.2	5.8	12.0	12.1	12.7
<b>2.12</b>	10.7	9.9	6.5	12.7	12.8	13.4
<b>2.25*</b>	11.5	10.7	7.3	13.5	13.6	14.2
<b>2.38*</b>	12.3	11.6	8.2	14.3	14.4	15.0
<b>2.50*</b>	13.1	12.3	8.9	15.0	15.1	15.7

\*Bend Setting not recommended for Rotary Drilling

**Performance Details**

	HP
Max Diff Pressure	780 psi
Max Torque	13,150 lbf-ft
Stall Torque	20,710 lbf-ft
Rotation	0.150 rev/gal
Flow Range	300-600 gpm
Speed Range	50-90 rpm

**Theoretical Performance Curve**



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