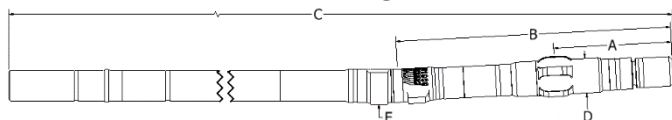


RVEN-70 : 7/8 Lobe 7.3 Stage



Dimensions

Bit to Stabilizer Center	A	27 in
Bit to Bend, Fixed	B	48 in
Bit to Top Sub	C	397 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	117,000 lbf
Max Overpull, Backream	169,000 lbf
Max Overpull, Re-Run	325,000 lbf
Max Overpull, POOH	630,000 lbf

Predicted Build Rates (Fixed) – Degrees/100ft

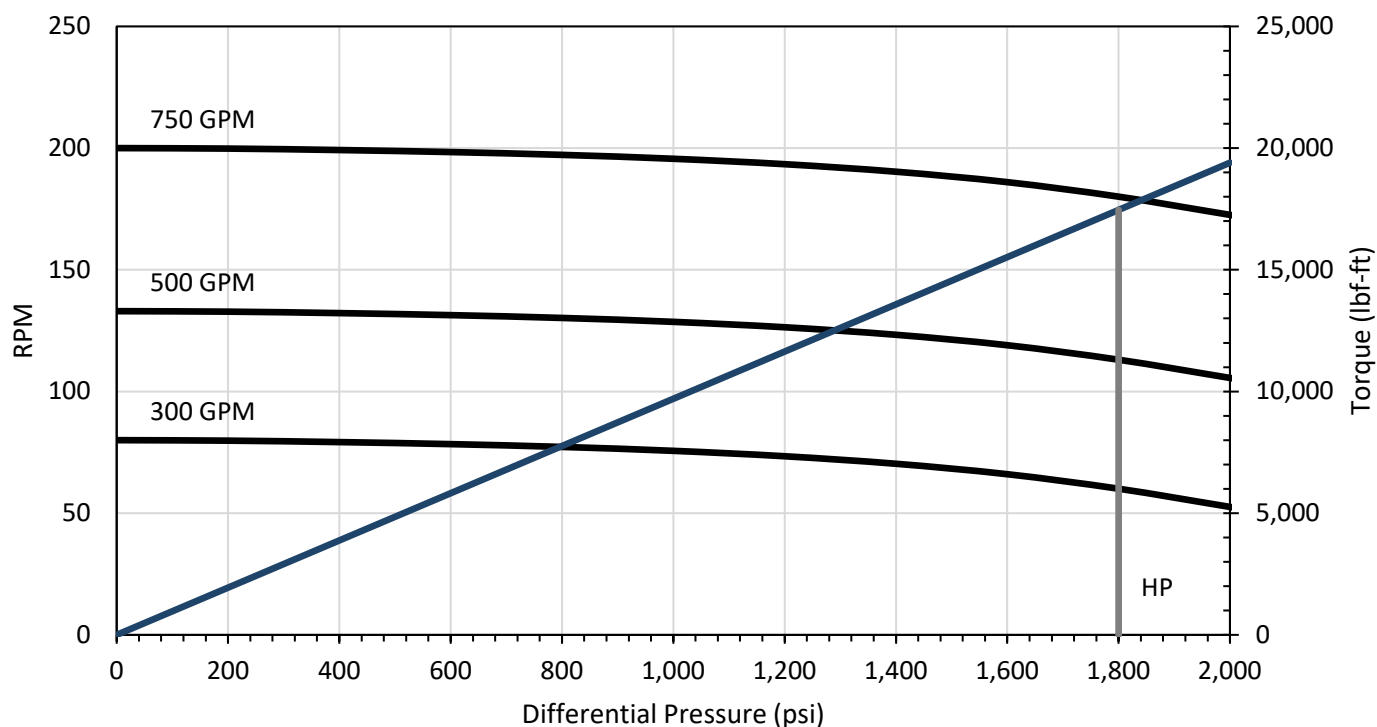
Bend Setting	Slick Hole Size			Stabilized Hole Size		
	8 1/2	8 3/4	9 7/8	8 1/2	8 3/4	9 7/8
Deg						
0.78	2.0	1.3	1.8	4.4	4.5	5.0
1.15	4.2	3.5	0.3	6.4	6.5	7.1
1.50	6.2	5.5	2.4	8.4	8.5	9.0
1.75	7.7	7.0	3.9	9.7	9.9	10.4
1.83	8.2	7.5	4.3	10.2	10.3	10.8
2.00	9.2	8.5	5.3	11.1	11.2	11.7
2.12	9.9	9.2	6.0	11.8	11.9	12.4
2.25*	10.6	9.9	6.8	12.5	12.6	13.1
2.38*	11.4	10.7	7.5	13.2	13.3	13.8
2.50*	12.1	11.4	8.3	13.9	14.0	14.5

*Bend Setting not recommended for Rotary Drilling

Performance Details

	HP
Max Diff Pressure	1,800 psi
Max Torque	17,500 lbf-ft
Stall Torque	26,250 lbf-ft
Rotation	0.266 rev/gal
Flow Range	300-750 gpm
Speed Range	80-200 rpm

Theoretical Performance Curve



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