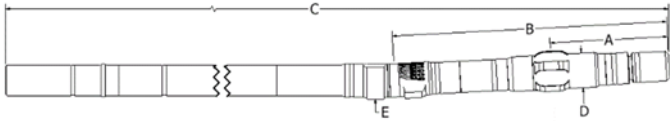
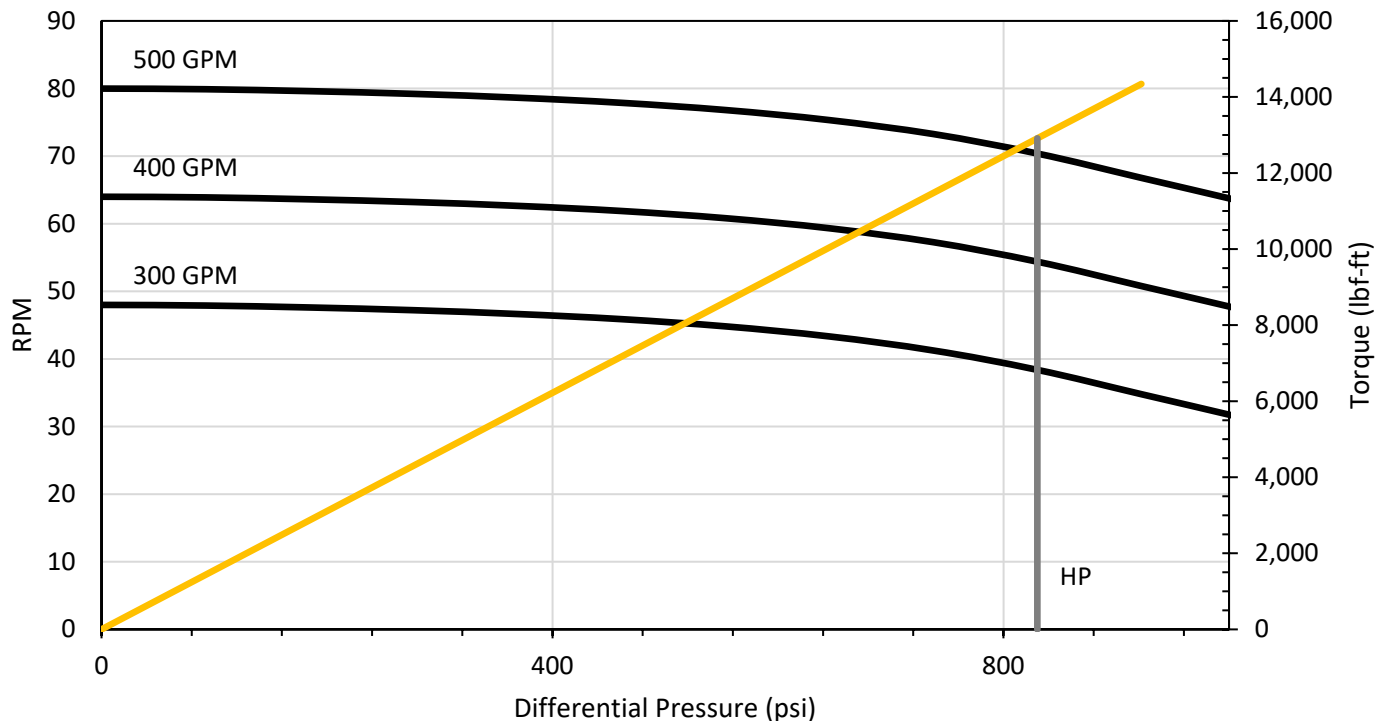


RVEN-65 : 7/8 Lobe 3.3 Stage

Dimensions

Bit to Stabilizer Center	A	28 in
Bit to Bend, Fixed	B	59.6 in
Bit to Top Sub	C	381 in
Body OD, Slick	D	6.5 in
Body OD, Stabilizer	D	6.5 in
Pad Radius, Fixed	E	3.38 in
Bottom Connection	4-1/2 IF Box 4-1/2 IF Pin	
Top Connection	4-1/2 XH Box	
Top Sub Float Bore	4R	

Recommended Operating Limits

Max WOB	87,000 lbf
Max Overpull, Backream	126,000 lbf
Max Overpull, Re-Run	234,000 lbf
Max Overpull, POOH	898,000 lbf

Theoretical Performance Curve


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

Predicted Build Rates (Fixed) – Degrees/100ft

Bend Setting	Slick Hole Size			Stabilized Hole Size		
	7 7/8	8 1/2	8 3/4	7 7/8	8 1/2	8 3/4
Deg						
0.78	2.1	-	-	4.4	4.8	4.9
1.15	4.4	2.9	2.3	6.5	6.8	6.9
1.50	6.5	5.0	4.4	8.5	8.8	8.9
1.75	8.1	6.5	5.9	9.9	10.2	10.3
1.83	8.6	7.0	6.4	10.3	10.6	10.7
2.00	9.6	8.1	7.5	11.3	11.6	11.7
2.12	10.3	8.8	8.2	11.9	12.2	12.4
2.25*	11.1	9.6	9.0	12.6	13.0	13.1
2.38*	11.9	10.4	9.8	13.4	13.7	13.8
2.50*	12.6	11.1	10.5	14.0	14.3	14.5

*Bend Setting not recommended for Rotary Drilling

Performance Details

Performance Details	HP
Max Diff Pressure	850 psi
Max Torque	12,830 lbf-ft
Stall Torque	19,250 lbf-ft
Rotation	0.160 rev/gal
Flow Range	300-500 gpm
Speed Range	48-80 rpm