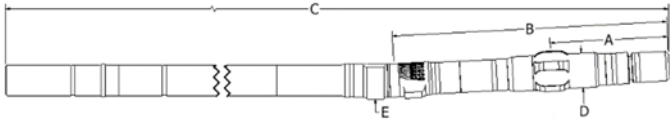


RVEN-86 : 7/8 Lobe 3.4 Stage

Dimensions

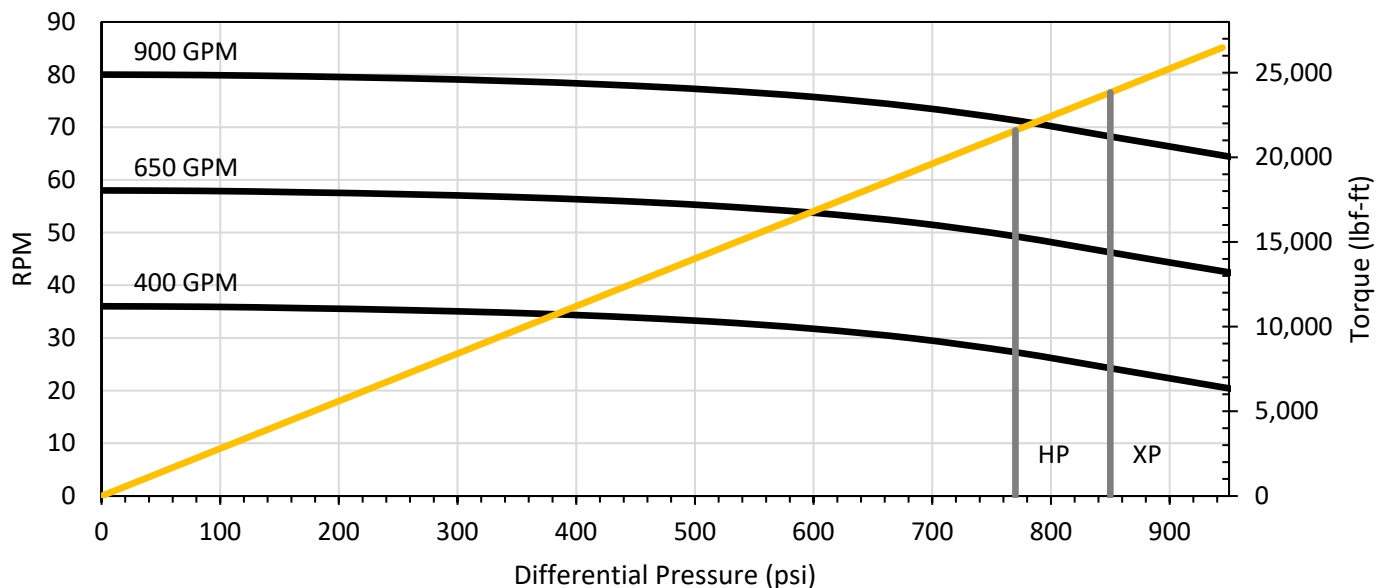
Bit to Stabilizer Center	A	NA	in
Bit to Bend, Fixed	B	76	in
Bit to Bend, ABH	B	94	in
Bit to Top Sub	C	472	in
Body OD, Slick	D	8.62	in
Pad Radius, Fixed	E	4.43	in
Pad Radius, ABH	E	4.25	in
Bottom Connection		4-1/2 REG Box 6-5/8 REG Box 4-1/2 IF Pin	
Top Connection		4-1/2 IF Box 4-1/2 XH Box	
Top Sub Float 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

Performance Details

	HR	XP
Max Diff Pressure	770	850
Max Torque	21,450	23,830
Stall Torque	32,180	35,750
Rotation	0.089	0.089
Flow Range	400-900	400-900
Speed Range	36-80	36-80

Theoretical Performance Curve


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

Predicted Build Rates (Adj.) – 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
0.39	-	-	-	1.6	1.8	2.3
0.78	2.9	1.9	-	3.2	3.4	3.9
1.15	4.7	3.7	1.6	4.7	4.9	5.4
1.50	6.4	5.5	3.4	6.4	6.3	6.8
1.83	8.1	7.1	5.0	8.1	7.7	8.2
2.12	9.5	8.5	6.4	9.5	8.9	9.4
2.38*	10.8	9.8	7.7	10.8	9.9	10.4
2.60*	11.9	10.9	8.8	11.9	10.9	11.3
2.77*	12.7	11.7	9.6	12.7	11.7	12.0
2.90*	13.3	12.4	10.3	13.3	12.4	12.5
2.97*	13.7	12.7	10.6	13.7	12.7	12.8
3.00*	13.8	12.9	10.8	13.8	12.9	12.9

*Bend Setting not recommended for Rotary Drilling

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
0.78	1.9	-	-	3.3	3.5	4.0
1.15	3.7	2.6	-	4.9	5.1	5.6
1.50	5.4	4.3	1.8	6.4	6.6	7.1
1.75	6.7	5.5	3.0	7.5	7.7	8.2
1.83	7.1	5.9	3.4	7.8	8.0	8.5
2.00	7.9	6.7	4.2	8.5	8.8	9.3
2.12	8.5	7.3	4.8	9.0	9.3	9.8
2.25*	9.1	8.0	5.5	9.6	9.8	10.3
2.38*	9.8	8.6	6.1	10.2	10.4	10.9
2.50*	10.4	9.2	6.7	10.7	10.9	11.4

*Bend Setting not recommended for Rotary Drilling