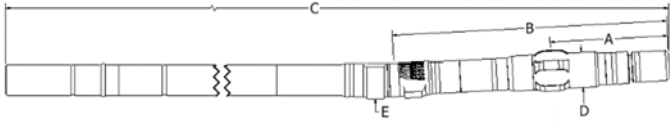


RVPP-96: 5/6 Lobe 4.0 Stage



Dimensions

Bit to Stabilizer Center	A	25 in
Bit to Bend, ABH	B	93 in
Bit to Top Sub	C	392 in
Body OD, Slick	D	9.63 in
Body OD, Stabilizer	D	11.0 in
Pad Radius, ABH	E	4.94 in
Bottom Connection	6-5/8 REG Box 6-5/8 REG Pin 7-5/8 REG Box	
Top Connection	6-5/8 REG Box 7/58 REG Box	
Top Sub Float Bore	5F-6R	

Recommended Operating Limits

Max WOB	168,000 lbf
Max Overpull, Backream	220,000 lbf
Max Overpull, Re-Run	220,000 lbf
Max Overpull, POOH	972,000 lbf

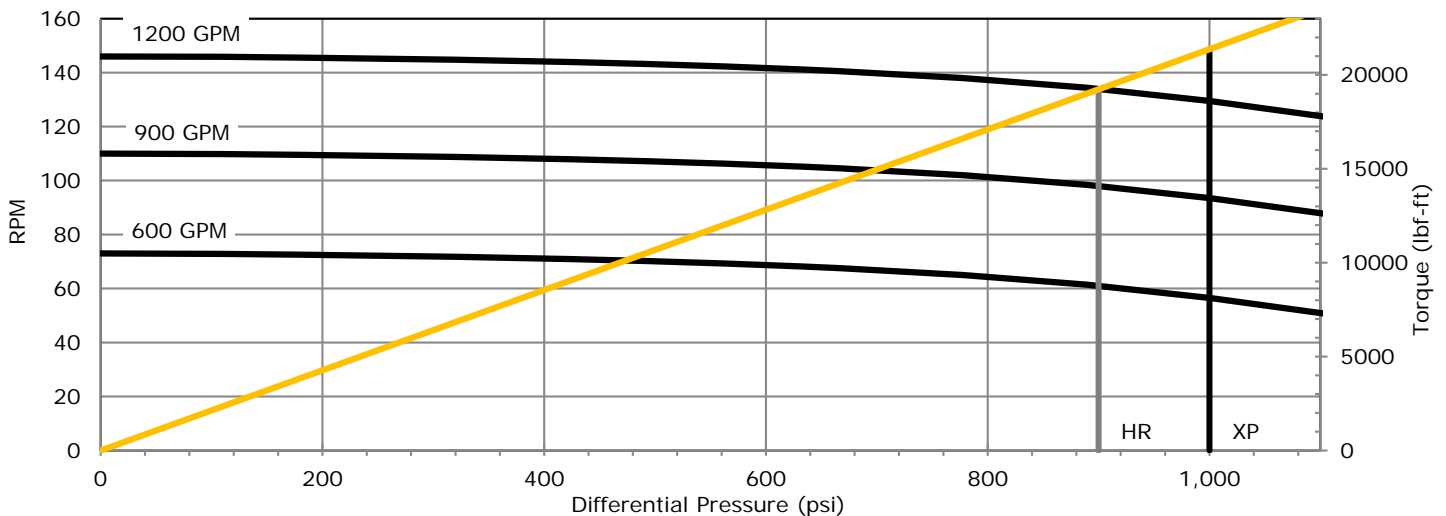
Performance Details	HR	XP
Max Diff Pressure	900	990 psi
Max Torque	19,240	21,160 lbf-ft
Stall Torque	28,850	31,740 lbf-ft
Rotation	0.122	0.122 rev/gal
Flow Range	600-1,200	600-1,200 gpm
Speed Range	73-150	73-150 rpm

Predicted Build Rates (Adj.) – Degrees/100ft

Bend Setting	Slick Hole Size			Stabilized Hole Size		
	12 1/4	14 3/4	17 1/2	12 1/4	14 3/4	17 1/2
Deg						
0.39	-	-	-	2.5	3.7	4.9
0.78	-	-	-	4.4	5.5	6.8
1.15	3.3	-	-	6.1	7.3	8.6
1.50	5.4	1.6	-	7.8	9.0	10.2
1.83	7.3	3.5	-	9.4	10.5	11.8
2.12	9.0	5.2	-	10.8	11.9	13.2
2.38*	10.6	6.8	2.6	12.0	13.2	14.4
2.60*	11.8	8.1	3.9	13.1	14.2	15.5
2.77*	12.8	9.1	4.9	13.9	15.0	16.3
2.90*	13.6	9.8	5.7	14.5	15.6	16.9
2.97*	14.0	10.2	6.1	14.8	16.0	17.2
3.00*	14.2	10.4	6.3	15.0	16.1	17.4

*Bend Setting not recommended for Rotary Drilling

Theoretical Performance Curve



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