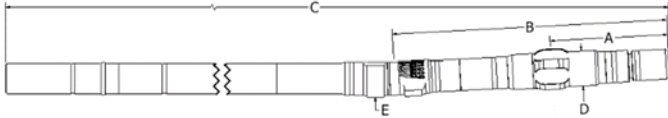


**RVMA-71 : 7/8 Lobe 5.7 Stage**

**Dimensions**

Bit to Stabilizer Center	A	27 in
Bit to Bend, ABH	B	63 in
Bit to Bend, Fixed	B	52 in
Bit to Top Sub	C	376 in
Body OD, Slick	D	7.13 in
Body OD, Stabilizer	D	7.88 in
Pad Radius, ABH	E	4.11 in
Pad Radius, Fixed	E	3.90 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 XT-39 Box	
Top Sub Float Bore	4R	

**Recommended Operating Limits**

Max WOB	109,000 lbf
Max Overpull, Backream	157,000 lbf
Max Overpull, Re-Run	252,000 lbf
Max Overpull, POOH	780,000 lbf

Performance Details	HR	XP
Max Diff Pressure	1,280	1,430 psi
Max Torque	13,720	15,240 lbf-ft
Stall Torque	20,580	22,870 lbf-ft
Rotation	0.242	0.242 rev/gal
Flow Range	300-700	300-700 gpm
Speed Range	72-169	72-169 rpm

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

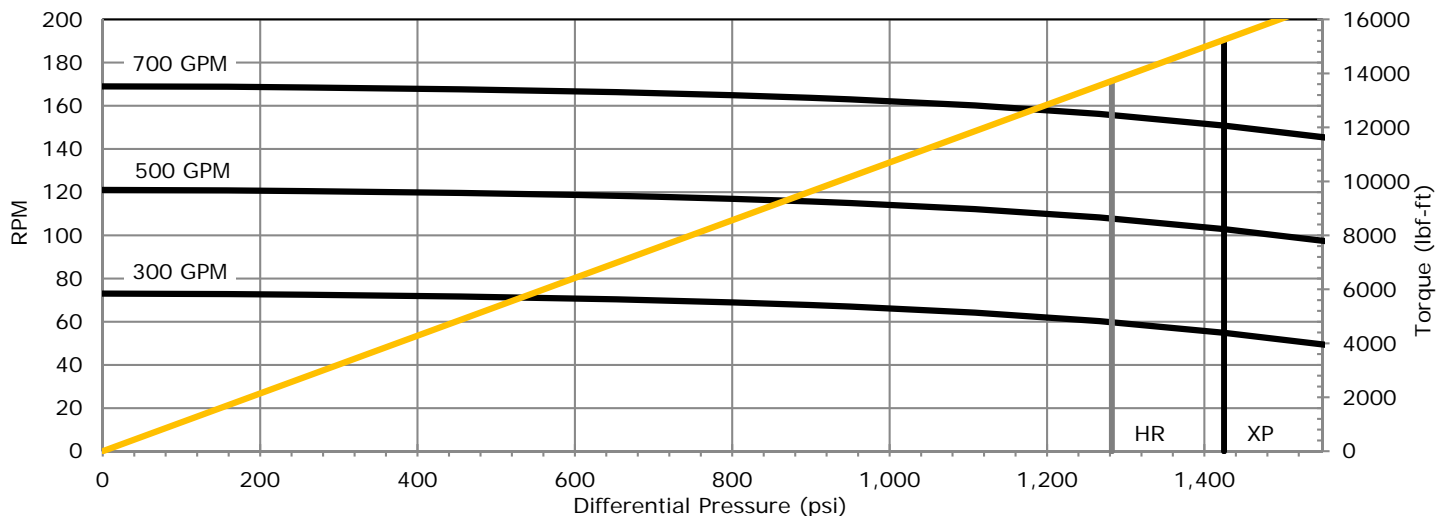
Bend Setting	Slick Hole Size			Stabilized Hole Size		
	Deg	8 1/2	8 3/4	9 7/8	8 1/2	8 3/4
<b>0.39</b>	2.3	1.7	1.1	2.3	2.3	2.9
<b>0.78</b>	4.9	4.3	1.5	4.9	4.6	5.2
<b>1.15</b>	7.3	6.7	3.9	7.3	6.7	7.4
<b>1.50</b>	9.6	9.0	6.2	9.6	9.0	9.4
<b>1.83</b>	11.8	11.2	8.4	11.8	11.2	11.3
<b>2.12</b>	13.7	13.1	10.3	13.7	13.1	13.0
<b>2.38*</b>	15.4	14.8	12.0	15.4	14.8	14.5
<b>2.60*</b>	16.9	16.2	13.4	16.9	16.2	15.8
<b>2.77*</b>	18.0	17.3	14.5	18.0	17.3	16.8
<b>2.90*</b>	18.8	18.2	15.4	18.8	18.2	17.5
<b>2.97*</b>	19.3	18.7	15.8	19.3	18.7	17.9
<b>3.00*</b>	19.5	18.9	16.0	19.5	18.9	18.1

\*Bend Setting not recommended for Rotary Drilling

**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>	3.3	2.5	-	4.6	4.7	5.4
<b>1.15</b>	5.7	5.0	1.7	6.8	7.0	7.6
<b>1.50</b>	8.0	7.3	4.0	8.9	9.1	9.7
<b>1.75</b>	9.6	8.9	5.6	10.5	10.6	11.2
<b>1.83</b>	10.2	9.4	6.1	10.9	11.1	11.7
<b>2.00</b>	11.3	10.6	7.3	12.0	12.1	12.8
<b>2.12</b>	12.1	11.3	8.0	12.7	12.8	13.5
<b>2.25*</b>	12.9	12.2	8.9	13.5	13.6	14.3
<b>2.38*</b>	13.8	13.0	9.8	14.3	14.4	15.1
<b>2.50*</b>	14.6	13.8	10.5	15.0	15.1	15.8

\*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.