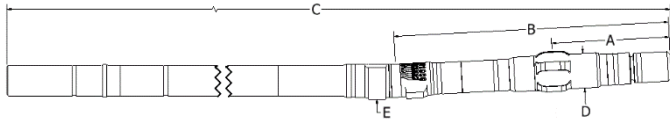


## RVTF-47 : 7/8 Lobe 3.8 Stage



### Dimensions

|                          |                                             |          |
|--------------------------|---------------------------------------------|----------|
| Bit to Stabilizer Center | A                                           | 16 in    |
| Bit to Bend, ABH         | B                                           | 57.5 in  |
| Bit to Bend, Fixed       | B                                           | 43.8 in  |
| Bit to Top Sub           | C                                           | 297 in   |
| Body OD, Slick           | D                                           | 4.818 in |
| Body OD, Stabilizer      | D                                           | 5.50 in  |
| Pad Radius, ABH          | E                                           | 2.71 in  |
| Pad Radius, Fixed        | E                                           | 2.55 in  |
| Bottom Connection        | 3-1/2 REG Box<br>3-1/2 IF Pin               |          |
| Top Connection           | 3-1/2 REG Box<br>3-1/2 IF Box, 3-1/2 XH Box |          |
| Top Sub Float Bore       | 2F-3R, 3F, 3-1/2 IF                         |          |

### Recommended Operating Limits

|                        |             |
|------------------------|-------------|
| Max WOB                | 43,000 lbf  |
| Max Overpull, Backream | 62,000 lbf  |
| Max Overpull, Re-Run   | 62,000 lbf  |
| Max Overpull, POOH     | 320,000 lbf |

| Performance Details | HR      | XP            |
|---------------------|---------|---------------|
| Max Diff Pressure   | 860     | 950 psi       |
| Max Torque          | 4,450   | 4,900 lbf-ft  |
| Stall Torque        | 6,670   | 7,340 lbf-ft  |
| Rotation            | 0.521   | 0.521 rev/gal |
| Flow Range          | 150-250 | 150-250 gpm   |
| Speed Range         | 78-140  | 78-140 rpm    |

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

| Bend Setting | Slick Hole Size |       |       | Stabilized Hole Size |       |       |
|--------------|-----------------|-------|-------|----------------------|-------|-------|
| Deg          | 6               | 6 1/4 | 6 3/4 | 6                    | 6 1/4 | 6 3/4 |
| 0.39         | 1.8             | -     | -     | 2.5                  | 2.7   | 3.1   |
| 0.78         | 5.0             | 4.1   | 2.3   | 5.2                  | 5.4   | 5.8   |
| 1.15         | 8.1             | 7.2   | 5.4   | 8.1                  | 8.0   | 8.4   |
| 1.50         | 10.9            | 10.0  | 8.2   | 10.9                 | 10.4  | 10.8  |
| 1.83         | 13.6            | 12.7  | 10.9  | 13.6                 | 12.7  | 13.1  |
| 2.12         | 16.0            | 15.1  | 13.3  | 16.0                 | 15.1  | 15.1  |
| 2.38*        | 18.1            | 17.3  | 15.5  | 18.1                 | 17.3  | 16.9  |
| 2.60*        | 20.0            | 19.1  | 17.3  | 20.0                 | 19.1  | 18.5  |
| 2.77*        | 21.3            | 20.4  | 18.7  | 21.3                 | 20.4  | 19.6  |
| 2.90*        | 22.4            | 21.5  | 19.7  | 22.4                 | 21.5  | 20.5  |
| 2.97*        | 23.0            | 22.1  | 20.3  | 23.0                 | 22.1  | 21.0  |
| 3.00*        | 23.2            | 22.3  | 20.5  | 23.2                 | 22.3  | 21.2  |

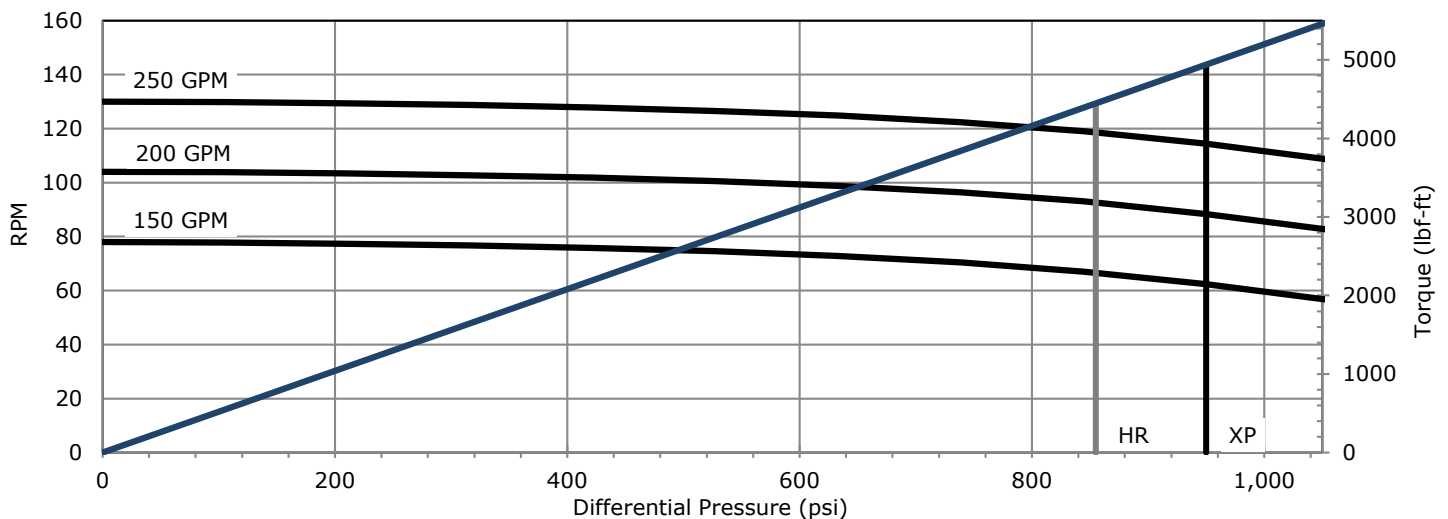
\*Bend Setting not recommended for Rotary Drilling

### Predicted Build Rates (Fixed) – Degrees/100ft

| Bend Setting | Slick Hole Size |       |       | Stabilized Hole Size |       |       |
|--------------|-----------------|-------|-------|----------------------|-------|-------|
| Deg          | 6               | 6 1/4 | 6 3/4 | 6                    | 6 1/4 | 6 3/4 |
| 0.75         | 2.4             | 1.3   | 1.0   | 5.3                  | 5.5   | 6.8   |
| 1.00         | 4.5             | 3.3   | 1.1   | 7.1                  | 7.3   | 7.8   |
| 1.25         | 6.5             | 5.4   | 3.1   | 9.0                  | 9.2   | 9.6   |
| 1.50         | 8.6             | 7.4   | 5.2   | 10.8                 | 11.0  | 11.5  |
| 1.63         | 9.6             | 8.5   | 6.2   | 11.8                 | 12.0  | 12.4  |
| 1.75         | 10.6            | 9.5   | 7.2   | 12.6                 | 12.9  | 13.3  |
| 1.83         | 11.3            | 10.1  | 7.9   | 13.2                 | 13.4  | 13.9  |
| 2.00         | 12.7            | 11.5  | 9.3   | 14.5                 | 14.7  | 15.1  |
| 2.25*        | 14.7            | 13.6  | 11.3  | 16.3                 | 16.5  | 17.0  |
| 2.38*        | 15.8            | 14.7  | 12.4  | 17.3                 | 17.5  | 17.9  |
| 2.50*        | 16.8            | 15.6  | 13.4  | 18.2                 | 18.4  | 18.8  |

\*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.