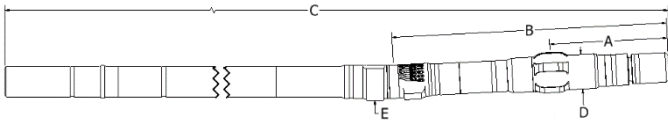


## RVEN-65 : 7/8 Lobe 3.3 Stage



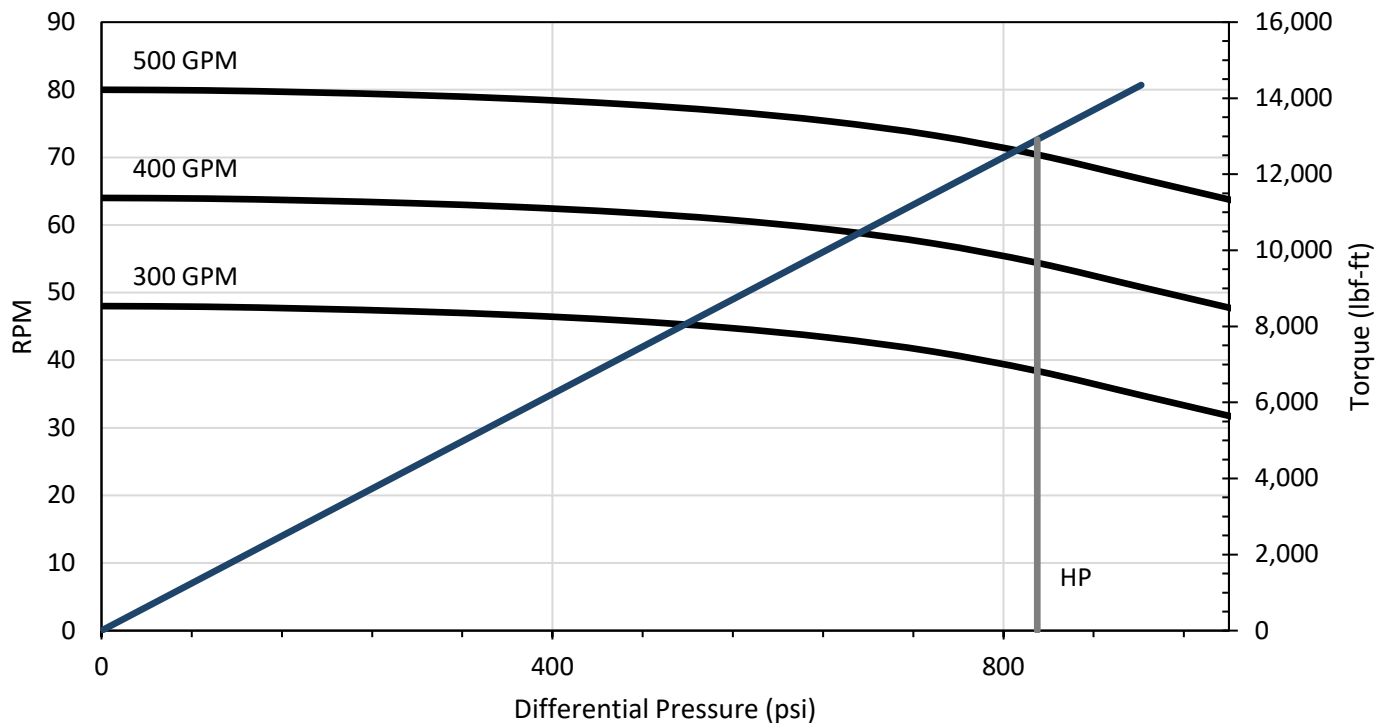
### Dimensions

|                          |                              |         |
|--------------------------|------------------------------|---------|
| 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<br>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 |
| 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

| 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     |