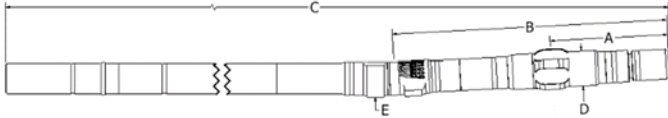


RVDX-70 : 7/8 Lobe 5.0 Stage

Dimensions

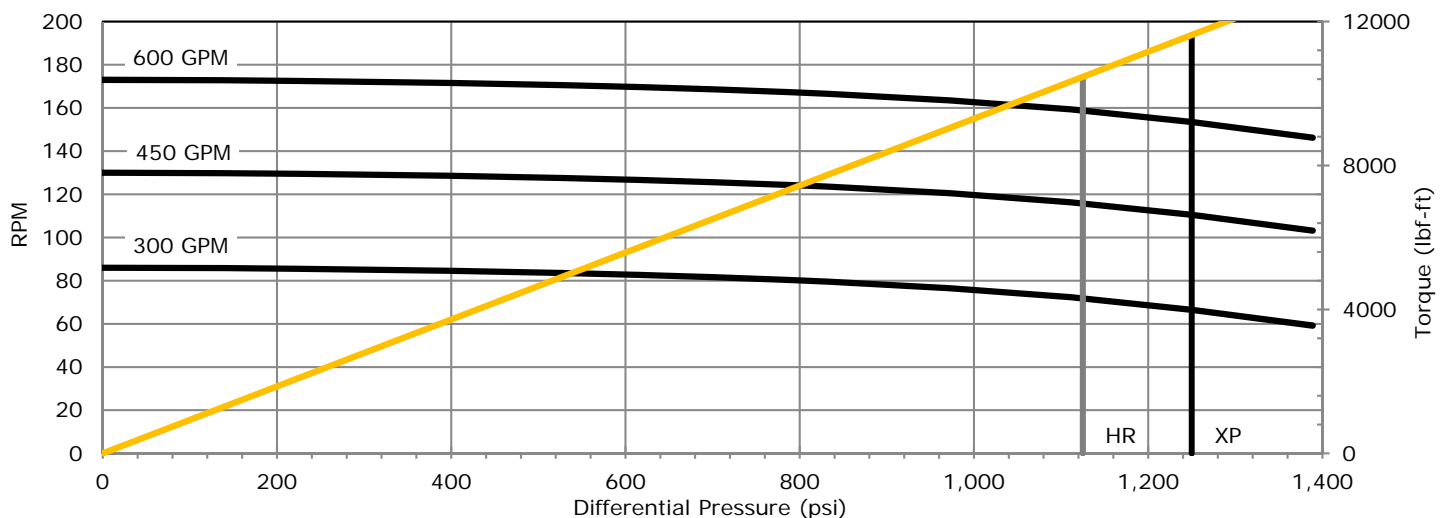
| | | |
|--------------------------|---------------|---------|
| Bit to Stabilizer Center | A | 25.2 in |
| Bit to Bend, ABH | B | N/A in |
| Bit to Bend, Fixed | B | 42 in |
| Bit to Top Sub | C | 307 in |
| Body OD, Slick | D | 7.25 in |
| Body OD, Stabilizer | D | 7.25 in |
| Pad Radius, ABH | E | N/A in |
| Pad Radius, Fixed | E | 3.75 in |
| Bottom Connection | 4-1/2 REG Box | |
| Top Connection | 4-1/2 IF Box | |
| Top Sub Float Bore | 4R & 5R | |

Recommended Operating Limits

| | |
|------------------------|-------------|
| Max WOB | 160,000 lbf |
| Max Overpull, Backream | 231,000 lbf |
| Max Overpull, Re-Run | 319,000 lbf |
| Max Overpull, POOH | 875,000 lbf |

Performance Details

| | HR | XP |
|-------------------|---------|---------------|
| Max Diff Pressure | 1,130 | 1,240 psi |
| Max Torque | 10,460 | 11,510 lbf-ft |
| Stall Torque | 15,690 | 17,260 lbf-ft |
| Rotation | 0.288 | 0.288 rev/gal |
| Flow Range | 300-600 | 300-600 gpm |
| Speed Range | 86-180 | 86-180 rpm |

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 | | |
|--------------|-----------------|-------|-------|----------------------|-------|-------|
| | 8 1/2 | 8 3/4 | 9 7/8 | 8 1/2 | 8 3/4 | 9 7/8 |
| Deg | 8 1/2 | 8 3/4 | 9 7/8 | 8 1/2 | 8 3/4 | 9 7/8 |
| 0.75 | 2.1 | 1.1 | - | 5.6 | 5.8 | 6.6 |
| 1.00 | 4.0 | 3.0 | - | 7.3 | 7.5 | 8.4 |
| 1.25 | 5.9 | 4.9 | - | 9.1 | 9.3 | 10.1 |
| 1.50 | 7.8 | 6.7 | 2.2 | 10.9 | 11.0 | 11.9 |
| 1.63 | 8.7 | 7.7 | 3.2 | 11.8 | 12.0 | 12.8 |
| 1.75 | 9.6 | 8.6 | 4.1 | 12.6 | 12.8 | 13.7 |
| 1.88 | 10.6 | 9.6 | 5.1 | 13.5 | 13.7 | 14.6 |
| 2.00 | 11.5 | 10.5 | 6.0 | 14.4 | 14.6 | 15.4 |
| 2.25* | 13.4 | 12.4 | 7.9 | 16.1 | 16.3 | 17.2 |
| 2.38* | 14.4 | 13.4 | 8.9 | 17.1 | 17.2 | 18.1 |
| 2.50* | 15.3 | 14.3 | 9.8 | 17.9 | 18.1 | 18.9 |

*Bend Setting not recommended for Rotary Drilling