

| Hole Size  | SLICK – ADJUSTABLE ASSEMBLY |        |        |        | STABILIZED – ADJUSTABLE ASSEMBLY |        |        |        |
|------------|-----------------------------|--------|--------|--------|----------------------------------|--------|--------|--------|
|            | THEORETICAL BUILD RATES     |        |        |        |                                  |        |        |        |
|            | 5 7/8"                      | 6 1/4" | 6 3/4" | 7 1/2" | 5 7/8"                           | 6 1/4" | 6 3/4" | 7 1/2" |
| BEND ANGLE | DEGREES PER 100 FEET        |        |        |        | DEGREES PER 100 FEET             |        |        |        |
| 0.39       | 1.50                        | 1.30   | 1.10   | 0.80   | 2.60                             | 2.90   | 3.20   | 4.30   |
| 0.78       | 7.50                        | 6.90   | 6.30   | 3.80   | 4.90                             | 5.40   | 5.70   | 6.90   |
| 1.15       | 7.95                        | 7.30   | 6.50   | 3.95   | 7.15                             | 7.80   | 8.10   | 9.30   |
| 1.50       | 10.10                       | 9.50   | 8.90   | 6.40   | 9.80                             | 10.10  | 10.40  | 11.50  |
| 1.83       | 12.50                       | 11.90  | 11.30  | 8.80   | 12.10                            | 12.30  | 12.50  | 13.70  |
| 2.12       | 14.50                       | 13.95  | 13.50  | 10.90  | 13.90                            | 14.20  | 14.40  | 15.60  |
| 2.38       | 16.40                       | 15.90  | 15.40  | 21.80  | 15.50                            | 15.90  | 16.10  | 17.30  |
| 2.60       | 17.95                       | 17.50  | 16.95  | 14.40  | 16.60                            | 17.30  | 17.60  | 18.70  |
| 2.77       | 19.40                       | 18.80  | 18.20  | 15.70  | 18.00                            | 18.40  | 18.70  | 19.80  |
| 2.90       | 20.40                       | 19.80  | 19.20  | 16.60  | 18.60                            | 19.20  | 19.50  | 20.70  |
| 2.97       | 20.95                       | 20.40  | 19.80  | 17.40  | 19.00                            | 19.70  | 20.00  | 21.20  |
| 3.00       | 21.20                       | 20.60  | 19.95  | 17.50  | 19.30                            | 19.90  | 20.20  | 21.30  |

| Hole Size  | SLICK – FIXED HOUSING   |        |        |        | STABILIZED – FIXED HOUSING |        |        |        |
|------------|-------------------------|--------|--------|--------|----------------------------|--------|--------|--------|
|            | THEORETICAL BUILD RATES |        |        |        |                            |        |        |        |
|            | 5 7/8"                  | 6 1/4" | 6 3/4" | 7 1/2" | 5 7/8"                     | 6 1/4" | 6 3/4" | 7 1/2" |
| BEND ANGLE | DEGREES PER 100 FEET    |        |        |        | DEGREES PER 100 FEET       |        |        |        |
| 1.25       | 8.00                    | 7.35   | 6.55   | 3.85   | 9.80                       | 10.10  | 10.40  | 11.50  |
| 1.50       | 12.55                   | 11.95  | 11.35  | 8.85   | 12.10                      | 12.30  | 12.50  | 13.70  |
| 1.75       | 13.55                   | 12.95  | 12.65  | 9.75   | 12.90                      | 13.10  | 13.60  | 14.10  |
| 2.00       | 14.55                   | 14.10  | 13.55  | 10.95  | 13.90                      | 14.20  | 14.40  | 15.60  |
| 2.25       | 16.45                   | 15.95  | 15.45  | 12.85  | 15.50                      | 15.90  | 16.10  | 17.30  |

| SPECIFICATIONS            |              |
|---------------------------|--------------|
| (A) Bit Box to STAB       | 12.75"       |
| (B) Bit Box to Bend, ADJ. | 57.0"        |
| (B) Bit Box to Bend, FIX  | 45.0"        |
| (C) Bit Box to Stator     | 68.8"        |
| Power Section             | 198"         |
| (D) RotorCatch            | 25"          |
| Overall Length            | 288.00"      |
| Effective Pad Diameter    | 5.25"        |
| On Bottom Load            | 60,000 lbs   |
| Off Bottom Load           | 60,000 lbs   |
| Max WOB to rerun          | 230,000 lbs  |
| Max Torque Capacity       | 14,800 ft-lb |
| Bit Box Conn.             | 3 1/2" REG   |
| Max Overpull              | 450,000 lbs  |
| Max Static Temp – BH      | 325 F        |

| PERFORMANCE SPECIFICATIONS |         |
|----------------------------|---------|
| Flow Range (gpm)           | 150–350 |
| Speed Range (rpm)          | 90–190  |
| Torque Slope (ft-lb/psi)   | 3.97    |
| Rotation (rev/gal)         | 0.620   |
| Off Bottom Pressure (psi)  | 80      |

| PERFORMANCE DETAILS    |      |      |
|------------------------|------|------|
|                        | NBR  | HR   |
| Max Diff Press (psi)   | 750  | 1180 |
| Stall Diff Press (psi) | 1130 | 1860 |
| Max Torque (ft-lb)     | 2980 | 4670 |
| Stall Torque (ft-lb)   | 4470 | 7350 |

