

Hydril Tubing Connections

Hydril "CS" Joint

| | | | | | | | | | |
|-----------------------------|------|-------|-------|-------|-------|-------|-------|------|------|
| 1 1/2 (1.660 - O.D.) - 2.9 | .145 | 1.610 | 1.516 | 2.187 | 2.113 | 2.094 | 1.530 | 600 | 800 |
| 1 1/2 (1.660 - O.D.) - 3.64 | .200 | 1.500 | 1.406 | 2.187 | 2.162 | | 1.440 | 600 | 800 |
| 2 1/16 - 3.25 | .156 | 1.751 | 1.657 | 2.187 | 2.330 | 2.300 | 1.700 | 700 | 900 |
| 2 3/8 - 4.7 | .190 | 1.995 | 1.901 | 2.272 | 2.700 | 2.630 | 1.945 | 1100 | 1500 |
| 2 3/8 - 5.3 | .218 | 1.939 | 1.845 | 2.260 | 2.740 | | 1.890 | 1100 | 1500 |
| 2 7/8 - 6.5 | .217 | 2.441 | 2.347 | 2.338 | 3.220 | 3.155 | 2.375 | 1500 | 2100 |
| 3 1/2 - 9.3 | .254 | 2.992 | 2.867 | 2.788 | 3.905 | 3.805 | 2.920 | 2500 | 3000 |
| 3 1/2 - 10.3 | .289 | 2.992 | 2.797 | 2.786 | 3.955 | | 2.878 | 2500 | 3000 |
| 4 - 11 | .262 | 3.476 | 3.351 | 2.769 | 4.405 | 4.315 | 3.395 | 3000 | 3500 |
| 4 1/2 - 12.75 | .271 | 3.958 | 3.833 | 2.821 | 4.910 | 4.825 | 3.865 | 3500 | 4500 |
| 4 1/2 - 13.5 | .290 | 3.920 | 3.795 | 2.820 | 4.935 | | 3.840 | 3500 | 4500 |

| Hydril "PH-6" Tubing Joint | | | | | | | | | |
|------------------------------|--------|------------|---------------|-------------|------------|-------------|---------------------------|-----------|-----------|
| Size (O.D.) and (Nominal) | Weight | Tubing | | | Connection | | Recommended Makeup Torque | | |
| | | Wall Thick | I.D. (Nom) | Drift Diam. | Pin Length | O.D. Turned | I.D. Bored | J-55 | C-75 N-80 |
| Inches | Inches | Inches | Inches | Inches | Inches | Inches | Ft. - Lbs | Ft. - Lbs | Ft. - Lbs |
| 2 3/8 - 5.95 | .254 | 1.867 | 1.773 | 2.978 | 2 29/32 | 1.805 | 1600 | 2200 | 2700 |
| 2 3/8 - 6.2 | .261 | 1.853 | 1.759 | 2.968 | 2 15/16 | 1.795 | 1600 | 2200 | 2700 |
| 2 3/8 - 7.7 | .336 | 1.703 | 1.609 | 2.936 | 3 1/8 | 1.645 | 1600 | 2200 | 2700 |
| 2 7/8 - 7.9 | .276 | 2.323 | 2.229 | 2.951 | 3 7/16 | 2.265 | 2200 | 3000 | 3500 |
| 2 7/8 - 8.7 | .308 | 2.259 | 2.165 | 2.941 | 3 1/2 | 2.200 | 2200 | 3000 | 3500 |
| 2 7/8 - 9.5 | .340 | 2.195 | 2.101 | 2.918 | 3 5/8 | 2.130 | 3200 | 4500 | 5500 |
| 2 7/8 - 10.7 | .392 | 2.091 | 1.997 | 2.918 | 3 11/16 | 2.030 | 3200 | 4500 | 5500 |
| 2 7/8 - 11.0 | .405 | 2.065 | 1.971 | 2.900 | 3 3/4 | 2.000 | 3200 | 4500 | 5500 |
| 3 1/2 - 12.8 | .368 | 2.764 | 2.639 | 3.236 | 4 5/16 | 2.700 | 4000 | 5500 | 7000 |
| 3 1/2 - 12.95 | .375 | 2.750 | 2.625 | 3.236 | 4 5/16 | 2.687 | 4000 | 5500 | 7000 |
| 3 1/2 - 15.8 | .476 | 2.548 | 2.423 | 3.226 | 4 1/2 | 2.485 | 4000 | 5500 | 7000 |
| 3 1/2 - 16.7 | .510 | 2.480 | 2.355 | 3.223 | 4 9/16 | 2.406 | 5000 | 7000 | 9000 |
| 4 - 13.4 | .330 | 3.215 | 3.215 | 3.236 | 4 5/8 | 3.275 | 4000 | 5500 | 7000 |
| 4 1/2 - 15.5 | .337 | 3.701 | 3.701 | 3.259 | 5 1/8 | 3.765 | 4500 | 6000 | 7500 |
| 4 1/2 - 19.2 | .430 | 3.515 | 3.515 | 3.236 | 5 5/16 | 3.560 | 5500 | 7500 | 9500 |