

Tubing Data & Performance Sheet

1-1/4" 3.02# P-110 1-1/4" CS Hydril Type

TUBE BODY DATA

Tube OD	1.660 in.
Wall Thickness	0.191 in.
Tube ID	1.278 in.
Tensile Yield Strength	75,600 lbs. (80% RBW Inspection Class)
Torsional Yield Strength	2,400 ft-lbs. (80% RBW Inspection Class)
Tube Burst	20,300 psi. (80% RBW Inspection Class)
Tube Collapse	19,200 psi. (80% RBW Inspection Class)

TUBULAR ASSEMBLY

Approximate Length	30 ft.
Nominal Weight	3.02 lbs./ft.
Material Grade	110,000 psi.
Drift Diameter	1.184 in.
Displacement	0.0458 gal./ft. 0.0011 bbls./ft.
Capacity	0.0666 gal./ft. 0.0016 bbls./ft.
Compression Yield Strength	77,600 lbs.
Max Bending	243.2 degrees/100 ft.

CONNECTION DATA

Connection	CS Hydril Type
Connection OD	1.927 in.
Connection ID	1.218 in.
Threads per inch	8
Make-Up Loss	2.220 in.

MAKE-UP TORQUE

Make-Up Torque - Minimum	600 ft-lbs.
Make-Up Torque - Optimum	700 ft-lbs.
Make-Up Torque Maximum	800 ft-lbs.

CONNECTION PERFORMANCE

Connection Torsional Strength	Not Reported
Connection Tensile Strength	97,000 lbs.
External Pressure Capacity	22,400 psi.
Internal Pressure Capacity	22,100 psi.

FEATURES

Hardbanding	None
-------------	------

Notes:

- Referenced tube size, wall and assembly length are nominal, unless indicated otherwise. Values shown may vary with actual values due to OEM tolerances, rounding and other factors. Tubing is manufactured to API 5CT 87-1/2% RBW and inspected to minimum Premium Class (80% RBW).
- Maximum make-up torque is that value above which there is no additional benefit, or reason to exceed. It is not meant to indicate the maximum torque the connection can withstand.

The technical information contained herein, including the product performance sheet and other attached documents, has been extracted from information available from the manufacturer and is for reference only and not a recommendation. The user is fully responsible for the accuracy and suitability of use of the technical information. Patterson Servicers, Inc. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Tubular assembly properties are calculated based on uniform OD and wall thickness. No safety factor is applied. Weight, displacement, and capacity are approximate and can vary by ± 10% (or more) depending on OD, specified wall, wall tolerance, and internal coating options. It is the responsibility of the customer and the end user to determine the appropriate performance ratings, acceptable use of the product, maintain safe operational practices, and to apply a prudent safety factor suitable for the application.