



**CASING TECHNICAL DATA SHEET**  
**7 x 0.408 P110 GBCD**

Reviewed by: Sr. Quality Engineer  
 Approved by: Corporate Director-QEHS

TDS Date (MM/DD/YY)

7/1/24

**PIPE BODY DATA**

Nominal Outside Diameter  
 Nominal Wall Thickness  
 Remaining Body Wall (RBW)  
 Type of Thread  
 Grade

Label Weight  
 Plain End Weight  
 Pipe Minimum Yield  
 Pipe Maximum Yield  
 Pipe Minimum Tensile  
 Standard Drift Diameter (min)  
 Alternate Drift Diameter (min)  
 Pipe Body Plain End Yield  
 Pipe Body Internal Yield  
 Collapse Pressure - Standard  
 Collapse Pressure - High

| Unit  | Imperial | Metric  | Unit |
|-------|----------|---------|------|
| in    | 7.000    | 177.80  | mm   |
| in    | 0.408    | 10.36   | mm   |
|       | 95.0%    | 95.0%   |      |
|       | GBCD     | GBCD    |      |
|       | P110     | P110    |      |
|       | 29.00    | 29.00   |      |
| lb/ft | 28.75    | 42.78   | kg/m |
| ksi   | 110      | 758     | MPa  |
| ksi   | 140      | 965     | MPa  |
| ksi   | 125      | 862     | MPa  |
| in    | 6.059    | 153.90  | mm   |
| in    | 6.125    | 155.58  | mm   |
| lb    | 929,000  | 421,390 | kg   |
| psi   | 12,180   | 83,980  | kPa  |
| psi   | 8,530    | 58,810  | kPa  |
| psi   | N/A      | N/A     | kPa  |

**CONNECTION DATA**

Coupling Minimum Yield  
 Coupling Maximum Yield  
 Coupling Minimum Tensile  
 Coupling or Joint Outside Diameter (nom)  
 Coupling Thread Fracture Strength  
 Pipe Thread Fracture Strength  
 Pull Out Strength  
 Nominal Make-Up Torque or Make-up Torque Range  
 Coupling Internal Yield  
 Internal Yield of Joint

|       |               |               |     |
|-------|---------------|---------------|-----|
| ksi   | See Next Page | See Next Page | MPa |
| ksi   | See Next Page | See Next Page | MPa |
| ksi   | See Next Page | See Next Page | MPa |
| in    | See Next Page | See Next Page | mm  |
| lb    | See Next Page | See Next Page | kg  |
| lb    | See Next Page | See Next Page | kg  |
| lb    | See Next Page | See Next Page | kg  |
| ft-lb | See Next Page | See Next Page | N-m |
| psi   | See Next Page | See Next Page | kPa |
| psi   | See Next Page | See Next Page | kPa |

**WELED TUBE GENERAL INPUT CRITERIA**

Coupling Color Code  
 Coupling Color Code for the Band  
 Pipe Color Code Identification  
 Additional Color Band (approx. 10' from box end)

|            |           |
|------------|-----------|
|            | White     |
|            | None      |
| 2" Band(s) | One White |
|            | N/A       |

Note:

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**GB Connection Performance Properties Sheet**

Rev. 1 (07/01/2024)

ENGINEERING THE RIGHT CONNECTIONS

**Casing:** 7 OD, 29 ppf  
**Casing Grade\*\*:** WTC P110 (95% RBW)

**Connection:** GB CD Butt 7.875  
**Coupling Grade:** API P-110

**PIPE BODY GEOMETRY**

|                        |       |                                    |       |                                |       |
|------------------------|-------|------------------------------------|-------|--------------------------------|-------|
| Nominal OD (in.)       | 7     | Wall Thickness (in.)               | 0.408 | Drift Diameter (in.)           | 6.059 |
| Nominal Weight (ppf)   | 29.00 | Nominal ID (in.)                   | 6.184 | API Alternate Drift Dia. (in.) | 6.125 |
| Plain End Weight (ppf) | 28.75 | Plain End Area (in. <sup>2</sup> ) | 8.449 |                                |       |

**PIPE BODY PERFORMANCE\*\***

|                        |                    |                           |         |                                |         |
|------------------------|--------------------|---------------------------|---------|--------------------------------|---------|
| Material Specification | WTC P110 (95% RBW) | Min. Yield Str. (psi)     | 110,000 | Min. Ultimate Str. (psi)       | 125,000 |
| <b>Collapse</b>        |                    | <b>Tension</b>            |         | <b>Pressure</b>                |         |
| API (psi)              | 8,530              | Pl. End Yield Str. (kips) | 929     | Min. Int. Yield Press.** (psi) | 12,180  |
| High Collapse (psi)    | -                  | <b>Torque</b>             |         | <b>Bending</b>                 |         |
|                        |                    | Yield Torque (ft-lbs)     | 139,330 | Build Rate to Yield (°/100 ft) | 72.0    |

**GB CD Butt 7.875 COUPLING GEOMETRY**

|                       |       |  |        |
|-----------------------|-------|--|--------|
| Coupling OD (in.)     | 7.875 | Makeup Loss (in.)                        | 4.6250 |
| Coupling Length (in.) | 9.250 | Critical Cross-Sect. (in. <sup>2</sup> ) | 11.894 |

**GB CD Butt 7.875 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES**

|                           |           |                            |         |                                |         |
|---------------------------|-----------|----------------------------|---------|--------------------------------|---------|
| Material Specification    | API P-110 | Min. Yield Str. (psi)      | 110,000 | Min. Ultimate Str. (psi)       | 125,000 |
| <b>Tension</b>            |           | <b>Efficiency</b>          |         | <b>Bending</b>                 |         |
| Thread Str. (kips)        | 955       | Internal Pressure (%)      | 100%    | Build Rate to Yield (°/100 ft) | 64.0    |
| Min. Tension Yield (kips) | 1,243     | External Pressure (%)      | 100%    | <b>Yield Torque</b>            |         |
| Min. Tension Ult. (kips)  | 1,412     | Tension (%)                | 100%    | Yield Torque (ft-lbs)          | 58,960  |
| Joint Str. (kips)         | 955       | Compression (%)            | 100%    |                                |         |
|                           |           | Ratio of Areas (Cplg/Pipe) | 1.41    |                                |         |

**MAKEUP TORQUE**

|                      |        |                      |        |                              |            |
|----------------------|--------|----------------------|--------|------------------------------|------------|
| Min. MU Tq. (ft-lbs) | 10,000 | Max. MU Tq. (ft-lbs) | 20,000 | Running Tq. (ft-lbs)         | See GBC RP |
|                      |        |                      |        | Max. Operating Tq. (ft-lbs)* | 56,010     |

Units: US Customary (lbm, in., °F, lbf)

1 kip = 1,000 lbs

\* See Running Procedure for description and limitations.

See attached: Notes for GB Connection Performance Properties.

GBC Running Procedure (GBC RP): [www.gbconnections.com/pdf/RP-GB-DWC-Connections.pdf](http://www.gbconnections.com/pdf/RP-GB-DWC-Connections.pdf)

Blanking Dimensions: [www.gbconnections.com/pdf/GB-DWC-Blanking-Dimensions.pdf](http://www.gbconnections.com/pdf/GB-DWC-Blanking-Dimensions.pdf)

Connection yield torque rating based on physical testing or extrapolation therefrom

\*\* Casing properties applicable to WTC P110 (95% RBW) grade with min. yield 110 ksi.

