



CASING TECHNICAL DATA SHEET
5.5 x 0.361 P110 GBCD

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

TDS Date (MM/DD/YY)

6/26/24

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 | 5.500 | 139.70 | mm |
| in | 0.361 | 9.17 | mm |
| | 95.0% | 95.0% | |
| | GBCD | GBCD | |
| | P110 | P110 | |
| | 20.00 | 20.00 | |
| lb/ft | 19.83 | 29.52 | kg/m |
| ksi | 110 | 758 | MPa |
| ksi | 140 | 965 | MPa |
| ksi | 125 | 862 | MPa |
| in | 4.653 | 118.18 | mm |
| in | N/A | N/A | mm |
| lb | 641,000 | 290,750 | kg |
| psi | 13,720 | 94,600 | kPa |
| psi | 11,100 | 76,530 | 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. 0 (06/26/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 5.5 OD, 20 ppf
Casing Grade:** WTC P110 (95%RBW)

Connection: GB CD Butt 6.300
Coupling Grade: API P-110

PIPE BODY GEOMETRY

| | | | | | |
|------------------------|-------|------------------------------------|-------|--------------------------------|-------|
| Nominal OD (in.) | 5 1/2 | Wall Thickness (in.) | 0.361 | Drift Diameter (in.) | 4.653 |
| Nominal Weight (ppf) | 20.00 | Nominal ID (in.) | 4.778 | API Alternate Drift Dia. (in.) | N/A |
| Plain End Weight (ppf) | 19.83 | Plain End Area (in. ²) | 5.828 | | |

PIPE BODY PERFORMANCE**

| | | | | | |
|------------------------|-------------------|---------------------------|---------|---------------------------------|---------|
| Material Specification | WTC P110 (95%RBW) | Min. Yield Str. (psi) | 110,000 | Min. Ultimate Str. (psi) | 125,000 |
| Collapse | | Tension | | Pressure | |
| API (psi) | 11,100 | Pl. End Yield Str. (kips) | 641 | Min. Int. Yield Press. ** (psi) | 13,720 |
| High Collapse (psi) | - | Torque | | Bending | |
| | | Yield Torque (ft-lbs) | 74,420 | Build Rate to Yield (°/100 ft) | 91.7 |

GB CD Butt 6.300 COUPLING GEOMETRY

| | | | |
|-----------------------|-------|--|--------|
| Coupling OD (in.) | 6.300 | Makeup Loss (in.) | 4.2500 |
| Coupling Length (in.) | 8.500 | Critical Cross-Sect. (in. ²) | 8.527 |

GB CD Butt 6.300 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES

| | | | | | |
|---------------------------|-----------|----------------------------|---------|--------------------------------|---------|
| Material Specification | API P-110 | Min. Yield Str. (psi) | 110,000 | Min. Ultimate Str. (psi) | 125,000 |
| Tension | | Efficiency | | Bending | |
| Thread Str. (kips) | 667 | Internal Pressure (%) | 100% | Build Rate to Yield (°/100 ft) | 80.0 |
| Min. Tension Yield (kips) | 891 | External Pressure (%) | 100% | Yield Torque | |
| Min. Tension Ult. (kips) | 1,013 | Tension (%) | 100% | Yield Torque (ft-lbs) | 31,180 |
| Joint Str. (kips) | 667 | Compression (%) | 100% | | |
| | | Ratio of Areas (Cplg/Pipe) | 1.46 | | |

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)* | 29,620 |

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

Blanking Dimensions: 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.

