

**CASING TECHNICAL DATA SHEET**  
**5.5 x 0.304 HCP110 GBCD**

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

TDS Date (MM/DD/YY)

10-17-24

**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

**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

**WELDED 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)

*Note:*

Unit	Imperial	Metric	Unit
in	5.500	139.70	mm
in	0.304	7.72	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HCP110	HCP110	
	17.00	17.00	
lb/ft	16.89	25.13	kg/m
ksi	110	758	MPa
ksi	140	965	MPa
ksi	125	862	MPa
in	4.767	121.08	mm
in	N/A	N/A	mm
lb	546,000	247,660	kg
psi	11,550	79,630	kPa
psi	N/A	N/A	kPa
psi	8,730	60,190	kPa
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

2" Band(s)	White
	None
	One White
	Blue

*Welded Tube has issued this document for general information only. This does not constitute a warranty, MTR, certificate of compliance, or similar. The content of this technical data sheet shall be reviewed by the user for verification of suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. Welded Tube disclaims any and all expressed or implied warranties of fitness for particular application.*

*Welded Tube has the right to change this data at any time as an improvement of the product or process.*

*This is an un-controlled document.*

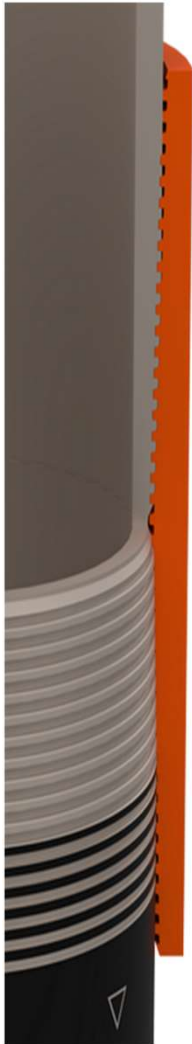
**GB Connection Performance Properties Sheet**

Rev. 0 (10/17/2024)

ENGINEERING THE RIGHT CONNECTIONS™

**Casing:** 5.5 OD, 17 ppf  
**Casing Grade\*\*:** WTC HC P-110 (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.)	0.304	Drift Diameter (in.)	4.767
Nominal Weight (ppf)	17.00	Nominal ID (in.)	4.892	API Alternate Drift Dia. (in.)	N/A
Plain End Weight (ppf)	16.89	Plain End Area (in. <sup>2</sup> )	4.962		

PIPE BODY PERFORMANCE**					
Material Specification	WTC HC P-110 (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)	7,480	Pl. End Yield Str. (kips)	546	Min. Int. Yield Press.** (psi)	11,550
High Collapse ** (psi)	8,730	<b>Torque</b>		<b>Bending</b>	
		Yield Torque (ft-lbs)	64,680	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. <sup>2</sup> )	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
<b>Tension</b>		<b>Efficiency</b>		<b>Bending</b>	
Thread Str. (kips)	568	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	80.0
Min. Tension Yield (kips)	891	External Pressure (%)	100%	<b>Yield Torque</b>	
Min. Tension Ult. (kips)	1,013	Tension (%)	100%	Yield Torque (ft-lbs)	23,660
Joint Str. (kips)	568	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.72		

MAKEUP TORQUE					
Min. MU Tq. (ft-lbs)	8,990	Max. MU Tq. (ft-lbs)	17,980	Running Tq. (ft-lbs)	See GBC RP
				Max. Operating Tq. (ft-lbs)*	22,480

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/resources/running-procedures/](http://www.gbconnections.com/resources/running-procedures/)

Blanking Dimensions: [www.gbconnections.com/resources/documentation/#blanking-dimensions](http://www.gbconnections.com/resources/documentation/#blanking-dimensions)

Connection yield torque rating based on physical testing or extrapolation therefrom

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