

TDS Date (MM/DD/YY)

7/8/24

**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

**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)

Note:

Unit	Imperial	Metric	Unit
in	7.000	177.80	mm
in	0.317	8.05	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HCP110	HCP110	
	23.00	23.00	
lb/ft	22.65	33.70	kg/m
ksi	110	758	MPa
ksi	140	965	MPa
ksi	125	862	MPa
in	6.241	158.52	mm
in	6.280	159.51	mm
lb	732,000	332,030	kg
psi	9,460	65,220	kPa
psi	N/A	N/A	kPa
psi	5,470	37,710	kPa

ksi	See Next Page	See Next Page	MPa
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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

	White
	None
2" Band(s)	One White
	Blue

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**GB Connection Performance Properties Sheet**

Rev. 1 (07/09/2024)

ENGINEERING THE RIGHT CONNECTIONS

**Casing:** 7 OD, 23 ppf  
**Casing Grade\*\*:** WTC HC P-110 (95% RBW)

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

**PIPE BODY GEOMETRY**

Nominal OD (in.)	7	Wall Thickness (in.)	0.317	Drift Diameter (in.)	6.241
Nominal Weight (ppf)	23.00	Nominal ID (in.)	6.366	API Alternate Drift Dia. (in.)	6.250
Plain End Weight (ppf)	22.65	Plain End Area (in. <sup>2</sup> )	6.655		

**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)	4,440	Pl. End Yield Str. (kips)	732	Min. Int. Yield Press.** (psi)	9,460
High Collapse** (psi)	5,470	<b>Torque</b>		<b>Bending</b>	
		Yield Torque (ft-lbs)	112,620	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)	752	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)	39,090
Joint Str. (kips)	752	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.79		

**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)*	37,140

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 HC P-110 (95% RBW) grade with min. yield 110 ksi.

