



CASING TECHNICAL DATA SHEET
5.5 x 0.304 HPP110 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	0.304	7.72	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HPP110	HPP110	
	17.00	17.00	
lb/ft	16.89	25.13	kg/m
ksi	125	862	MPa
ksi	140	965	MPa
ksi	125	862	MPa
in	4.767	121.08	mm
in	N/A	N/A	mm
lb	620,000	281,230	kg
psi	13,130	90,530	kPa
psi	N/A	N/A	kPa
psi	9,440	65,090	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)

2" Band(s)

White
None
One White
Orange

Note:

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GB Connection Performance Properties Sheet

Rev. 0 (06/03/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 5.5 OD, 17 ppf
Casing Grade**: WTC HP 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. ²)	4.962		

PIPE BODY PERFORMANCE**					
Material Specification	WTC HP P-110 (95% RBW)	Min. Yield Str. (psi)	125,000	Min. Ultimate Str. (psi)	125,000
Collapse		Tension		Pressure	
API (psi)	7,890	Pl. End Yield Str. (kips)	620	Min. Int. Yield Press. (psi)	13,130
High Collapse** (psi)	9,440	Torque		Bending	
		Yield Torque (ft-lbs)	73,500	Build Rate to Yield (°/100 ft)	104.2

GB CD Butt 6.300 COUPLING GEOMETRY					
Coupling OD (in.)	6.300	Makeup Loss (in.)	4.2500	Nominal ID (in.)	4.892
Coupling Length (in.)	8.500	Critical Cross-Sect. (in. ²)	8.527	Drift Diameter (in.)	4.767

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)	583	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)	26,890
Joint Str. (kips)	583	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.72		

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)*	25,540

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.

GB 3P/4P connection series are not interchangeable with API Buttress Connections.

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 HP P-110 (95% RBW) grade with min. yield 125 ksi.