



CASING TECHNICAL DATA SHEET
7 x 0.453 HCP110 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	0.453	11.51	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HCP110	HCP110	
	32.00	32.00	
lb/ft	31.70	47.20	kg/m
ksi	110	758	MPa
ksi	140	965	MPa
ksi	125	862	MPa
in	5.969	151.60	mm
in	6.000	152.40	mm
lb	1,025,000	464,930	kg
psi	13,530	93,290	kPa
psi	N/A	N/A	kPa
psi	11,890	81,980	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
Blue

Note:

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GB Connection Performance Properties Sheet

Rev. 0 (07/01/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 7 OD, 32 ppf
Casing Grade:** WTC HC P110 (95% RBW)

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

PIPE BODY GEOMETRY

Nominal OD (in.)	7	Wall Thickness (in.)	0.453	Drift Diameter (in.)	5.969
Nominal Weight (ppf)	32.00	Nominal ID (in.)	6.094	API Alternate Drift Dia. (in.)	6.000
Plain End Weight (ppf)	31.70	Plain End Area (in. ²)	9.317		

PIPE BODY PERFORMANCE**

Material Specification	WTC HC P110 (95% RBW)	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000
Collapse		Tension		Pressure	
API (psi)	10,780	Pl. End Yield Str. (kips)	1,025	Min. Int. Yield Press.** (psi)	13,530
High Collapse** (psi)	11,890	Torque		Bending	
		Yield Torque (ft-lbs)	151,700	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. ²)	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
Tension		Efficiency		Bending	
Thread Str. (kips)	1,053	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	64.0
Min. Tension Yield (kips)	1,243	External Pressure (%)	100%	Yield Torque	
Min. Tension Ult. (kips)	1,412	Tension (%)	100%	Yield Torque (ft-lbs)	49,270
Joint Str. (kips)	1,053	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.28		

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)*	46,810

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 HC P110 (95% RBW) grade with min. yield 110 ksi.

