

CASING TECHNICAL DATA SHEET
6 x 0.36 HPP110 GBCD

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

TDS Date (MM/DD/YY)

8/7/24

PIPE BODY DATA

 Nominal Outside Diameter
 Nominal Wall Thickness
 Remaining Body Wall (RBW)
 Type of Thread
 Grade

 Nominal 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:

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Unit	Imperial	Metric	Unit
in	6.000	152.40	mm
in	0.360	9.14	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HPP110	HPP110	
	22.30	22.30	
lb/ft	21.70	32.29	kg/m
ksi	125	862	MPa
ksi	140	965	MPa
ksi	125	862	MPa
in	5.155	130.94	mm
in	N/A	N/A	mm
lb	797,000	361,510	kg
psi	14,250	98,250	kPa
psi	N/A	N/A	kPa
psi	9,800	67,570	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

2" Band(s)

White
None
One White
Orange

This is an un-controlled document.

GB Connection Performance Properties Sheet

Rev. 0 (07/23/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 6 OD, 21.7 ppf
Casing Grade:** WTC HP P-110 (95% RBW)

Connection: GB CD Butt 6.875
Coupling Grade: API P-110

PIPE BODY GEOMETRY

Nominal OD (in.)	6	Wall Thickness (in.)	0.360	Drift Diameter (in.)	5.155
Nominal Weight (ppf)	21.70	Nominal ID (in.)	5.280	API Alternate Drift Dia. (in.)	N/A
Plain End Weight (ppf)	21.70	Plain End Area (in. ²)	6.379		

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)	9,800	Pl. End Yield Str. (kips)	797	Min. Int. Yield Press.** (psi)	14,250
High Collapse (psi)	-	Torque		Bending	
		Yield Torque (ft-lbs)	102,100	Build Rate to Yield (°/100 ft)	95.5

GB CD Butt 6.875 COUPLING GEOMETRY

Coupling OD (in.)	6.875	Makeup Loss (in.)	4.4375
Coupling Length (in.)	8.875	Critical Cross-Sect. (in. ²)	10.171

GB CD Butt 6.875 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)	749	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	73.3
Min. Tension Yield (kips)	1,063	External Pressure (%)	100%	Yield Torque	
Min. Tension Ult. (kips)	1,208	Tension (%)	100%	Yield Torque (ft-lbs)	41,130
Joint Str. (kips)	749	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.59		

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)*	39,080

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

