

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	
	HCL80	HCL80	
	23.00	23.00	
lb/ft	22.65	33.70	kg/m
ksi	80	552	MPa
ksi	95	655	MPa
ksi	95	655	MPa
in	6.241	158.52	mm
in	6.280	159.51	mm
lb	532,000	241,310	kg
psi	6,880	47,440	kPa
psi	N/A	N/A	kPa
psi	4,850	33,440	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

	Red
	One Brown
2" Band(s)	One Red, One Brown
	Blue

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GB Connection Performance Properties Sheet

Rev. 0 (07/09/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 7 OD, 23 ppf
Casing Grade:** WTC HC L-80 (95% RBW)

Connection: GB CD Butt 7.875
Coupling Grade: API L-80

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. ²)	6.655		

PIPE BODY PERFORMANCE**

Material Specification	WTC HCL-80 (95% RBW)	Min. Yield Str. (psi)	80,000	Min. Ultimate Str. (psi)	95,000
Collapse		Tension		Pressure	
API (psi)	3,830	Pl. End Yield Str. (kips)	532	Min. Int. Yield Press.** (psi)	6,880
High Collapse** (psi)	4,850	Torque		Bending	
		Yield Torque (ft-lbs)	81,910	Build Rate to Yield (°/100 ft)	52.4

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 L-80	Min. Yield Str. (psi)	80,000	Min. Ultimate Str. (psi)	95,000
Tension		Efficiency		Bending	
Thread Str. (kips)	565	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	46.6
Min. Tension Yield (kips)	904	External Pressure (%)	100%	Yield Torque	
Min. Tension Ult. (kips)	1,073	Tension (%)	100%	Yield Torque (ft-lbs)	28,430
Joint Str. (kips)	565	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)*	27,010

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 L-80 (95% RBW) grade with min. yield 80 ksi.

