

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

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	5.500	139.70	mm
in	0.415	10.54	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HCL80	HCL80	
	23.00	23.00	
lb/ft	22.56	33.57	kg/m
ksi	80	552	MPa
ksi	95	655	MPa
ksi	95	655	MPa
in	4.545	115.44	mm
in	N/A	N/A	mm
lb	530,000	240,400	kg
psi	11,470	79,080	kPa
psi	N/A	N/A	kPa
psi	11,530	79,500	kPa

ksi	See Next Page	See Next Page	MPa
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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 (06/28/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 5.5 OD, 23 ppf
Casing Grade:** WTC L80 HC (95% RBW)

Connection: GB CD Butt 6.300
Coupling Grade: API L-80



PIPE BODY GEOMETRY					
Nominal OD (in.)	5 1/2	Wall Thickness (in.)	0.415	Drift Diameter (in.)	4.545
Nominal Weight (ppf)	23.00	Nominal ID (in.)	4.670	API Alternate Drift Dia. (in.)	N/A
Plain End Weight (ppf)	22.56	Plain End Area (in. ²)	6.630		

PIPE BODY PERFORMANCE**					
Material Specification	WTC L80 HC (95% RBW)	Min. Yield Str. (psi)	80,000	Min. Ultimate Str. (psi)	95,000
Collapse		Tension		Pressure	
API (psi)	11,160	Pl. End Yield Str. (kips)	530	Min. Int. Yield Press. **(psi)	11,470
High Collapse** (psi)	11,530	Torque		Bending	
		Yield Torque (ft-lbs)	60,380	Build Rate to Yield (°/100 ft)	66.7

GB CD Butt 6.300 COUPLING GEOMETRY			
Coupling OD (in.)	6.300	Makeup Loss (in.)	4.2500
Coupling Length (in.)	8.500	Critical Cross-Sect. (in. ²)	8.527

GB CD Butt 6.300 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)	572	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	58.2
Min. Tension Yield (kips)	648	External Pressure (%)	100%	Yield Torque	
Min. Tension Ult. (kips)	770	Tension (%)	100%	Yield Torque (ft-lbs)	27,740
Joint Str. (kips)	572	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.29		

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)*	26,360

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 L80 HC (95% RBW) grade with min. yield 80 ksi.