

**CASING TECHNICAL DATA SHEET**  
**7.625 x 0.375 HCL80 GBCD SCC**

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

TDS Date (MM/DD/YY)

12-16-25

**PIPE BODY DATA**

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

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

**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)

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Unit	Imperial	Metric	Unit
in	7.625	193.68	mm
in	0.375	9.53	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HCL80	HCL80	
	Special Clearance	Special Clearance	
	29.70	44.20	
lb/ft	29.06	43.28	kg/m
ksi	80	552	MPa
ksi	95	655	MPa
ksi	95	655	MPa
in	6.750	171.44	mm
in	N/A	N/A	mm
lb	683,000	309,800	kg
psi	7,480	51,570	kPa
psi	N/A	N/A	kPa
psi	5,780	39,850	kPa
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

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

## GB Connection Performance Properties Sheet

Rev. 0 (12/16/2025)

ENGINEERING THE RIGHT CONNECTIONS™

Casing: 7.625 OD, 29.7 ppf  
Casing Grade: WTC HCL80 (95% RBW)

Connection: GB CD Butt 8.125  
Coupling Grade: API L-80

PIPE BODY GEOMETRY					
Nominal OD (in.)	7 5/8	Wall Thickness (in.)	0.375	Drift Diameter (in.)	6.750
Nominal Weight (ppf)	29.70	Nominal ID (in.)	6.875	API Alternate Drift Dia. (in.)	N/A
Plain End Weight (ppf)	29.06	Plain End Area (in. <sup>2</sup> )	8.541		

PIPE BODY PERFORMANCE**					
Material Specification	WTC HCL80 (95% RBW)	Min. Yield Str. (psi)	80,000	Min. Ultimate Str. (psi)	95,000
<b>Collapse</b>		<b>Tension</b>		<b>Pressure</b>	
API (psi)	4,790	Pl. End Yield Str. (kips)	683	Min. Int. Yield Press. (psi)	7,480
High Collapse (psi)	5,780	<b>Torque</b>		<b>Bending</b>	
		Yield Torque (ft-lbs)	113,610	Build Rate to Yield (°/100 ft)	48.1

GB CD Butt 8.125 COUPLING GEOMETRY			
Coupling OD (in.)	8.125	Makeup Loss (in.)	4.8125
Coupling Length (in.)	9.625	Critical Cross-Sect. (in. <sup>2</sup> )	8.145

GB CD Butt 8.125 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES										
Material Specification		API L-80		Min. Yield Str. (psi)		80,000	Min. Ultimate Str. (psi)		95,000	
				Efficiency						
Tension						Gas	Liquid***	Bending		
Thread Str. (kips)		721		Internal Pressure (%)		88%	100%	Build Rate to Yield (°/100 ft)		45.1
Min. Tension Yield (kips)		619		External Pressure (%)		100%		Yield Torque		
Min. Tension Ult. (kips)		735		Tension (%)		100%		Yield Torque (ft-lbs)		32,000
Joint Str. (kips)		721		Compression (%)		100%				
				Ratio of Areas (Cplg/Pipe)		0.95				

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)*	30,400

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/resources/running-procedures/](http://www.gbconnections.com/resources/running-procedures/)

Blanking Dimensions: [www.gbconnections.com/resources/documentation/#blanking-dimensions](http://www.gbconnections.com/resources/documentation/#blanking-dimensions)

Connection yield torque rating based on physical testing or extrapolation therefrom

\*\* Casing properties applicable to WTC HCL80 (95% RBW) grade with min. yield 80 ksi.

\*\*\*Liquid Sealability for operational (frac) loading.

