

CASING TECHNICAL DATA
SHEET 8.625 x 0.352 HCL80
GBCD Slim Hole 9.000" OD

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

TDS Date (MM/DD/YY)

11-8-24

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

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:

	Unit	Imperial	Metric	Unit
	in	8.625	219.08	mm
	in	0.352	8.94	mm
		95.0%	95.0%	
		GBCD Slim Hole	GBCD Slim Hole	
		HCL80	HCL80	
		32.00	32.00	
	lb/ft	31.13	46.33	kg/m
	ksi	80	552	MPa
	ksi	95	655	MPa
	ksi	95	655	MPa
	in	7.796	198.02	mm
	in	7.875	200.03	mm
	lb	732,000	332,030	kg
	psi	6,200	42,750	kPa
	psi	N/A	N/A	kPa
	psi	3,820	26,340	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

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GB Connection Performance Properties Sheet

Rev. 0 (11/08/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 8.625 OD, 32 ppf
Casing Grade: WTC HCL80 (95% RBW)

Connection: GB CD Slim Hole 9.000
Coupling Grade: API L-80

PIPE BODY GEOMETRY					
Nominal OD (in.)	8 5/8	Wall Thickness (in.)	0.352	Drift Diameter (in.)	7.796
Nominal Weight (ppf)	32.00	Nominal ID (in.)	7.921	API Alternate Drift Dia. (in.)	7.875
Plain End Weight (ppf)	31.13	Plain End Area (in. ²)	9.149	Plain End Area OD Turn (in. ²)	7.936

PIPE BODY PERFORMANCE**					
Material Specification	WTC HCL80 (95% RBW)	Min. Yield Str. (psi)	80,000	Min. Ultimate Str. (psi)	95,000
Collapse		Tension		Pressure	
API (psi)	3,050	Pl. End Yield Str. (kips)	732	Min. Int. Yield Press. **(psi)	6,200
High Collapse** (psi)	3,820	Torque		Bending	
		Yield Torque (ft-lbs)	121,310	Build Rate to Yield (°/100 ft)	42.5

GB CD Slim Hole 9.000 COUPLING GEOMETRY			
Coupling OD (in.)	9.000	Makeup Loss (in.)	5.0000
Coupling Length (in.)	10.000	Critical Cross-Sect. (in. ²)	8.704

GB CD Slim Hole 9.000 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES					
Material Specification	API L-80	Min. Yield Str. (psi)	80,000	Min. Ultimate Str. (psi)	95,000
Tension		Efficiency		Bending	
			Gas	Liquid***	
Tension OD Turn (kips)	635	Internal Pressure (%)	91%	100%	Build Rate to Yield (°/100 ft)
Thread Str. (kips)	664	External Pressure (%)	100%		Yield Torque
Min. Tension Yield (kips)	661	Tension (%)	100%		Yield Torque (ft-lbs)
Min. Tension Ult. (kips)	785	Compression (%)	100%		38,530
Joint Str. (kips)	664	Ratio of Areas (Cplg/Pipe)	0.95		
		Ratio of Areas (Cplg/OD Turn)	1.10		

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)*	36,600

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/

Blanking Dimensions: 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

GB CD Slim Hole US Patent Pending

