

TDS Date (MM/DD/YY)

CASING TECHNICAL DATA SHEET 5.5 x 0.415 EPL80 GBCD

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

6/26/24

PIPE BODY DATA	Unit	Imperial	Metric	Uni	
Nominal Outside Diameter	in	5.500	139.70	mr	
Nominal Wall Thickness	in	0.415	10.54	mr	
Remaining Body Wall (RBW)		95.0%	95.0%		
Type of Thread		GBCD	GBCD		
Grade		EPL80	EPL80	l	
Label Weight		23.00	23.00	Í -	
Plain End Weight	lb/ft	22.56	33.57	kg	
Pipe Minimum Yield	ksi	82	565	MF	
Pipe Maximum Yield	ksi	95	655	MF	
Pipe Minimum Tensile	ksi	95	655	MF	
Standard Drift Diameter (min)	in	4.545	115.44	mr	
Alternate Drift Diameter (min)	in	N/A	N/A	mr	
Pipe Body Plain End Yield	lb	544,000	246,750	kg	
Pipe Body Internal Yield	psi	11,760	81,080	kP	
Collapse Pressure - Standard	psi	11,440	78,880	kP	
Collapse Pressure - High	psi	N/A	N/A	kP	
CONNECTION DATA					
Coupling Minimum Yield	ksi	See Next Page	See Next Page	MF	
Coupling Maximum Yield	ksi	See Next Page	See Next Page	MF	
Coupling Minimum Tensile	ksi	See Next Page	See Next Page	MF	
Coupling or Joint Outside Diameter (nom)	in	See Next Page	See Next Page	mr	
Coupling Thread Fracture Strength	lb	See Next Page	See Next Page	kg	
Pipe Thread Fracture Strength	lb	See Next Page	See Next Page	kg	
Pull Out Strength	lb	See Next Page	See Next Page	kg	
Nominal Make-Up Torque or Make-up Torque Range	ft-lb	See Next Page	See Next Page	N -1	
Coupling Internal Yield	psi	See Next Page	See Next Page	kP	
Internal Yield of Joint	psi	See Next Page	See Next Page	kP	
WELDED TUBE GENERAL INPUT CRITERIA				_	
Coupling Color Code		Red			
Coupling Color Code for the Band		One Brown			
Pipe Color Code Identification	2" Band(s)	One Red, One	Brown		
Additional Color Band (approx.10' from box end)		White			

Note:

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GB Connection Performance Properties Sheet

Rev. 0 (06/28/2024)

66.7

60,380 Build Rate to Yield (°/100 ft)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 5.5 OD, Casing Grade**: WTC L8	23 ppf 0 EP (95% RBW)			Connection: Coupling Grade:	GB CD Butt 6.300 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 PERFORMANC	E**				
Material Specification	WTC L80 EP (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)	11,440		
High Collapse** (psi)	11,760	Torque		Bending	1		

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

Yield Torque (ft-lbs)

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 Bendin		Bending	ing	
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 EP (95% RBW) grade with min. yield 80 ksi.