

**CASING TECHNICAL DATA SHEET**  
**5.5 x 0.415 HPP110 GBCD Slim Hole**

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

TDS Date (MM/DD/YY)

8-2-24

**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)

Note:

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Unit	Imperial	Metric	Unit
in	5.500	139.70	mm
in	0.415	10.54	mm
	95.0%	95.0%	
	GBCD	GBCD	
	HPP110	HPP110	
	Slim Hole	Slim Hole	
	23.00	23.00	
lb/ft	22.56	33.57	kg/m
ksi	125	862	MPa
ksi	140	965	MPa
ksi	125	862	MPa
in	4.545	115.44	mm
in	N/A	N/A	mm
lb	829,000	376,030	kg
psi	17,920	123,550	kPa
psi	N/A	N/A	kPa
psi	16,500	113,760	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

	White
	One Blue
2" Band(s)	One White
	Orange

## GB Connection Performance Properties Sheet

Rev. 0 (08/02/2024)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 5.5 OD, 23 ppf  
Casing Grade: WTC P-110 HP (95% RBW)

Connection: GB CD Slim Hole 5.900  
Coupling Grade: 125 ksi



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. <sup>2</sup> )	6.630	Plain End Area OD Turn (in. <sup>2</sup> )	5.562

PIPE BODY PERFORMANCE**					
Material Specification	WTC P-110 HP (95% RBW)	Min. Yield Str. (psi)	125,000	Min. Ultimate Str. (psi)	125,000
<b>Collapse</b>		<b>Tension</b>		<b>Pressure</b>	
API (psi)	16,060	Pl. End Yield Str. (kips)	829	Min. Int. Yield Press. **(psi)	17,920
High Collapse** (psi)	16,500	<b>Torque</b>		<b>Bending</b>	
		Yield Torque (ft-lbs)	78,880	Build Rate to Yield (°/100 ft)	104.2

GB CD Slim Hole 5.900 COUPLING GEOMETRY			
Coupling OD (in.)	5.900	Makeup Loss (in.)	4.2500
Coupling Length (in.)	8.500	Critical Cross-Sect. (in. <sup>2</sup> )	5.736

GB CD Slim Hole 5.900 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES					
Material Specification	125 ksi	Min. Yield Str. (psi)	125,000	Min. Ultimate Str. (psi)	135,000
<b>Tension</b>		<b>Efficiency</b>		<b>Bending</b>	
			<b>Gas</b>	<b>Liquid***</b>	
Tension OD Turn (kips)	695	Internal Pressure (%)	77%	100%	Build Rate to Yield (°/100 ft)
Thread Str. (kips)	654	External Pressure (%)	86%		<b>Yield Torque</b>
Min. Tension Yield (kips)	681	Tension (%)	89%		Yield Torque (ft-lbs)
Min. Tension Ult. (kips)	736	Compression (%)	89%		32,980
Joint Str. (kips)	654	Ratio of Areas (Cplg/Pipe)	0.87		
		Ratio of Areas (Cplg/OD Turn)	1.03		

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)*	31,330

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 P-110 HP (95% RBW) grade with min. yield 125 ksi.

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

GB CD Slim Hole US Patent Pending