

CASING TECHNICAL DATA SHEET
4.5 x 0.25 HCP110 Rattler

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

TDS Date (MM/DD/YY)

11-6-25

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)

Note:

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Unit	Imperial	Metric	Unit
in	4.500	114.30	mm
in	0.250	6.35	mm
	95.0%	95.0%	
	Rattler	Rattler	
	HCP110	HCP110	
	11th Edition	11th Edition	
	11.60	17.26	
lb/ft	11.36	16.91	kg/m
ksi	110	758	MPa
ksi	140	965	MPa
ksi	125	862	MPa
in	3.875	98.42	mm
in	N/A	N/A	mm
lb	367,000	166,470	kg
psi	11,610	80,050	kPa
psi	N/A	N/A	kPa
psi	8,830	60,880	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
	None
2" Band(s)	One White
	Blue

Connection Data Sheet

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T&C

Rattler®

OD
4.500 in.

Weight
11.60 lb/ft

Wall Thickness
0.250 in. **P-110 HC (Welded
Tube Pipe Body)**

RBW
95.0%

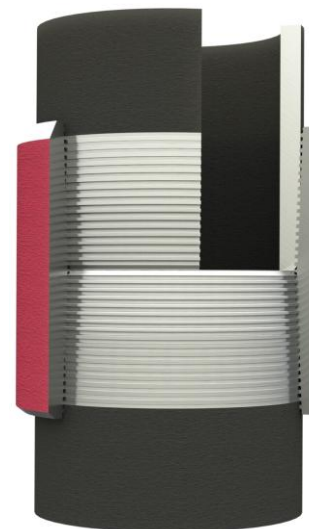
Special Clearance
NA

Pipe Body Data

Nominal OD 4.500 in.	Nominal ID 4.000 in.
Weight 11.60 lb/ft	PE Weight 11.36 lb/ft
Wall Thickness 0.250 in.	Remaining Body Wall (RBW) 95.0%
Minimum Yield Strength 110,000 psi	Minimum Tensile Strength 125,000 psi
Drift 3.875 in.	

Connection Data

Connection OD 5.250 in.	Connection ID 4.000 in.
Make-up Loss 3.988 in.	Uniaxial Bending 112.0 °/100ft.
MIYP (Burst) 11,610 psi	Collapse *8,830 psi
Tension Efficiency 100.0%	Yield Strength Tension 367,000 lbs
Compression Efficiency 100.0%	Yield Strength Compression 367,000 lbs



Make-Up Torque

Maximum	8,100	8,100 ft. lbs
Optimum	7,050	7,050 ft. lbs
Minimum	6,000	6,000 ft. lbs

Torque Limits

Yield Torque	12,000	12,000 ft. lbs
Operating Torque	10,800	10,800 ft. lbs

For technical support please email:
support@fermata-connections.com
or call: **(281) 941-5257**

Connection performance values pertain to structural capacity.

Keep operational torque jumps under the Yield Torque – not to be rotated at. The operating torque limit applies to the unloaded case – torque-tension plots are available on request.

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*Collapse value shown is the calculated API collapse and not the specific high collapse value. The actual collapse rating is 100% of pipe body and will vary depending on the mill. Verify the collapse rating of the pipe body with the manufacturer.