

Material	Imperial	Metric
Yield Stress (min) (psi [kPa])	80,000	551,581
Yield Stress (max) (psi [kPa])	95,000	655,002
Tensile Stress (min) (psi [kPa])	95,000	655,002
Hardness (max) (HRC [HBW])	23	241
Pipe Body Data		
Outside Diameter, Nominal (in [mm])	4.500	114.30
Weight, Nominal (lbm/ft [kg/m])	13.50	20.09
Wall Thickness, Nominal (in [mm])	0.290	7.37
Inside Diameter, Nominal (in [mm])	3.920	99.57
API Drift Diameter (in [mm])	3.795	96.39
Alternate Drift Diameter (in [mm])	N/A	N/A
Cross Section, Nominal (sq.in. [mm ²])	3.836	2474.83
Pipe Performance		
Tensile Yield (lbf [N])	306,900	1,365,159
Internal Yield Pressure (psi [kPa])	9,020	62,191
Collapse Pressure (psi [kPa])	10,270	70,809
Hydrostatic Test Pressure (psi [kPa])	8,200	56,537
Connection Data		
Connection OD (in [mm])	5.090	129.29
Special Clearance OD (in [mm])	N/A	N/A
Connection ID (in [mm])	3.920	99.57
Coupling Length (min) (in [mm])	9.000	228.60
Make-up Loss (in [mm])	3.938	100.03
Threads per Inch (pitch [mm])	5.000	5.08
Torques (Make-Up, Operational, Yield)		
Minimum (lbf-ft [N.m])	3,100	4,200
Optimum (lbf-ft [N.m])	3,500	4,750
Maximum (lbf-ft [N.m])	4,900	6,640
Max Operational, 1.176 S.F. (lbf-ft [N.m])	6,600	8,950
Yield (lbf-ft [N.m])	7,800	10,580

SIZE: 4.5 in. [114.3]

WEIGHT: 13.5 lbm/ft [20.09]

GRADE: HCL-80

CONNECTION: TTRS1

High Collapse

Connection Performance	
Tensile Efficiency (% of pipe Body)	100%
Internal Yield Pressure (% of pipe Body)	100%
External yield pressure (% of pipe Body)	100%
Compression Efficiency (% of pipe Body)	100%
Bending rate, with sealability (°/100 ft)	20°



Inspection Criteria: All the material is inspected to 10% Test notch inspection for OD/ID, Long/Trans and wall check per API/ASTM requirements though EMI/SEA.

Note: All the information provided is general data. This is not any kind of warranty/quality certificate. Tejas Tubular has the right to change this data at any time for product improvement. This is a non-controlled document. TTRS and Tejas Tubular logo are marks of Tejas Tubular Products, Inc.

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