

Material Properties	Imperial	Metric
Yield Stress (min) (psi [kPa])	110,000	758,423
Yield Stress (max) (psi [kPa])	125,000	861,845
Tensile Stress (min) (psi [kPa])	125,000	861,845
Hardness (max) (HRC [HBW])	32	301
Pipe Dimensions & Weight		
Outside Diameter, Nominal (in [mm])	4.500	114.30
Weight, Nominal (lbm/ft [kg/m])	15.10	22.47
Wall Thickness, Nominal (in [mm])	0.337	8.56
Inside Diameter, Nominal (in [mm])	3.826	97.18
API Drift Diameter (in [mm])	3.701	94.01
Alternate Drift Diameter (in [mm])	3.750	95.25
Cross Section, Nominal (sq.in. [mm <sup>2</sup> ])	4.407	2844
Pipe Load Capacities		
Tensile Yield (lbf [N])	484,800	2,156,497
Internal Yield Pressure (psi [kPa])	16,480	113,626
Collapse Pressure (psi [kPa])	14,340	98,871
Hydrostatic Test Pressure (psi [kPa])	10,000	68,948
Connection Dimensions		
Connection OD (in [mm])	<b>5.000</b>	127.00
Special Clearance OD (in [mm])	<b>4.929</b>	125.20
Connection ID (in [mm])	3.826	97.18
Coupling Length (min) (in [mm])	<b>8.500</b>	215.90
Make-up Loss (in [mm])	<b>3.750</b>	95.25
Threads per Inch (pitch [mm])	<b>6</b>	4.23
Connection Torque Capacities		
Minimum Make-up (lbf-ft [N.m])	<b>7,200</b>	9,760
Recommended Make-up (lbf-ft [N.m])	9,370	12,700
Maximum Make-up (lbf-ft [N.m])	11,540	15,650
Recommended Operating (lbf-ft [N.m])	11,540	15,650
Yield (lbf-ft [N.m])	13,580	18,410

**SIZE:** 4.5 in [114.3 mm]  
**WEIGHT:** 15.1 lbm/ft [22.47 kg/m]  
**GRADE:** CYP-110  
**CONNECTION:** TTNy  
 Controlled Yield

Connection Load Capacities	
Tensile Efficiency (% of pipe Body)	<b>100%</b>
Internal Yield Pressure (% of pipe Body)	<b>100%</b>
External yield pressure (% of pipe Body)	<b>100%</b>
Compression Efficiency (% of pipe Body)	<b>100%</b>
Tested Bend rate w sealability (°/100 ft)	112



All connection performance and Torque data have been extrapolated from tests on other grades.

**Inspection Criteria:** All the material is inspected to 5% Test notch inspection for OD/ID, Long/Trans and wall check per API/ASTM requirements though EMI/SEA.

1. Yield Torque - Pressure seal is no more guaranteed.
2. Operating Torque - Recommended maximum torque when rotating the string, often the Yield Torque with a Safety Factor in it (85% of Yield Torque).
3. Tensile Yield - Maximum weight that can be pulled on the string.

**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. TTRS1, TTXS, TTNy, TTUS, TTS-8, TTS-8 CI, TTS-8 CIGL, TTS-6, TTIB, TTFJ and the Tejas Tubular logo are marks of Tejas Tubular Products, Inc.

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