# TTXS (Pin to Pin)
## Casing Connection

SIZE: 5.5 in. [139.7]
WEIGHT: 20 lbm/ft [29.76]
GRADE: HCP-110
CONNECTION: TTXS
High Collapse

| Material | Imperial | Metric |
|---|---|---|
| Yield Stress (min) (psi [kPa]) | 110,000 | 758,423 |
| Yield Stress (max) (psi [kPa]) | 140,000 | 965,266 |
| Tensile Stress (min) (psi [kPa]) | 125,000 | 861,845 |
| Hardness (max) (HRC [HBW]) | N/A | N/A |
| **Pipe Body Data** | | |
| Outside Diameter, Nominal (in [mm]) | 5.500 | 139.70 |
| Weight, Nominal (lbm/ft [kg/m]) | 20.00 | 29.76 |
| Wall Thickness, Nominal (in [mm]) | 0.361 | 9.17 |
| Inside Diameter, Nominal (in [mm]) | 4.778 | 121.36 |
| API Drift Diameter (in [mm]) | 4.653 | 118.19 |
| Alternate Drift Diameter (in [mm]) | N/A | N/A |
| Cross Section, Nominal (sq.in. [mm2]) | 5.828 | 3759.99 |
| **Pipe Performance** | | |
| Tensile Yield (lbf [N]) | 641,100 | 2,851,754 |
| Internal Yield Pressure (psi [kPa]) | 12,640 | 87,150 |
| Collapse Pressure (psi [kPa]) | 13,350 | 92,045 |
| Hydrostatic Test Pressure (psi [kPa]) | 10,000 | 68,948 |
| **Connection Data** | | |
| Connection OD (in [mm]) | 6.300 | 160.02 |
| Special Clearance OD (in [mm]) | 5.875 | 149.23 |
| Connection ID (in [mm]) | 4.778 | 121.36 |
| Coupling Length (min) (in [mm]) | 8.250 | 209.55 |
| Make-up Loss (in [mm]) | 4.125 | 104.78 |
| Threads per Inch (pitch [mm]) | 5.000 | 5.08 |
| **Torque Capacity** | | |
| Minimum MUT (lbf-ft[ N.m]) | 8,200 | 11,120 |
| Optimum MUT (lbf-ft [N.m]) | 12,900 | 17,490 |
| Maximum MUT (lbf-ft [N.m]) | 17,600 | 23,860 |
| Rotating Torque (lbf-ft [N.m]) | 17,600 | 23,860 |
| Yield Torque (lbf-ft [N.m]) | 20,700 | 28,070 |

| 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, pipe body (°/100 ft) | 92 |


Connection performance values and torques are extrapolated from tested sizes and weights.

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.

Definitions

1. Yield Torque - Beyond this value the connection will not drift with the standard API drift diameter.
2. Rotating Torque - Recommended maximum torque when rotating the string (calculated as 85% of the Yield Torque, Safety Factor = 1.176).
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.



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