# TTS6-black

## Gas-tight Two-step Tubing Connection

SIZE: 2.875 inch [73.03 mm]
WEIGHT: 7.9 lbm/ft [11.76 kg/m]
GRADE: P-110

Interchangeable with PH6, BTS6, RTS6, NTS6, WTS6, etc. Can be equipped with 3/4 inch wide hardband on the box or both ends

| Material Properties | Imperial | Metric |
|---|---|---|
| Yield Stress, Minimum (psi [kPa]) | 110,000 | 758,423 |
| Yield Stress, Maximum (psi [kPa]) | 140,000 | 965,266 |
| Tensile Stress, Minimum (psi [kPa]) | 125,000 | 861,845 |
| Hardness, Maximum (HRC [HBW]) | N/A | N/A |
| **Pipe Dimensions & Weight** | | |
| Outside Diameter, Nominal (in [mm]) | 2.875 | 73.03 |
| Weight, Nominal (lbm/ft [kg/m]) | 7.90 | 11.76 |
| Wall Thickness, Nominal (in [mm]) | 0.276 | 7.01 |
| Inside Diameter, Nominal (in [mm]) | 2.323 | 59.00 |
| API Drift Diameter (in [mm]) | 2.229 | 56.62 |
| Upset-End Diameter, Minimum (in [mm]) | N/A | N/A |
| Upset-End Length, Maximum (in [mm]) | N/A | N/A |
| Cross Sectional Area, Nominal (sq.in. [sq.mm]) | 2.254 | 1454.19 |
| **Pipe Load Capacities** | | |
| Tensile Yield (lbf [N]) | 247,900 | 1,102,714 |
| Internal Yield Pressure (psi [kPa]) | 18,480 | 127,415 |
| Collapse Pressure (psi [kPa]) | 19,090 | 131,621 |
| Torsional Yield (lbf-ft [N.m]) | 14,160 | 19,200 |
| Hydrostatic Test Pressure (psi [kPa]) | 10,000 | 68,948 |
| Bending rate (º/100 ft [º/30 m]) | 175 | 173 |
| **Connection Dimensions** | | |
| Coupling OD (in [mm]) | 3.438 | 87.33 |
| Special Clearance** OD (in [mm]) | 3.312 | 84.12 |
| Connection ID (in [mm]) | 2.265 | 57.53 |
| Tool-Joint Length (in [mm]) | 9.000 | 228.60 |
| Make-up Loss (in [mm]) | 3.040 | 77.22 |
| Threads per Inch (pitch [mm] | 6.000 | 4.23 |
| **Connection Torque Capacities** | | |
| Low Shoulder Torque (lbf-ft[ N.m]) | 650 | 880 |
| High Shoulder Torque (lbf-ft[ N.m]) | 3,250 | 4,410 |
| Minimum Make-up Torque (lbf-ft[ N.m]) | 3,500 | 4,750 |
| Optimum Make-up Torque (lbf-ft [N.m]) | 4,000 | 5,420 |
| Maximum Make-up Torque (lbf-ft [N.m]) | 4,400 | 5,970 |
| Rotating Torque* (lbf-ft [N.m]) | 10,100 | 13,690 |
| Yield Torque (lbf-ft [N.m]) | 12,600 | 17,080 |

| Connection Load Capacities | |
|---|---|
| Tensile Efficiency (% of pipe body) | 124 |
| Internal Yield Pressure (% of pipe body) | 100 |
| External Yield pressure (psi) | 31,130 |
| Leak Resistance Pressure (psi) | radial m2m seal |
| Compression Efficiency (% of pipe body) | 124 |
| Torque Efficiency (% of pipe body) | 89 |
| Bending Strength Ratio (BSR) | 1.71 |


* AS RESTRICTED BY WORKOVER RIG EQUIPMENT (POWER SWIVEL, TOP DRIVE OR ROTARY TABLE)
** Listed Rotating / Yield Torques and Connection Load Capacities have to be recalculated for Special Clearance OD.
Material is EMI/SEA inspected to 5% notch, over OD/ID, long/trans and wall thickness orientations, per API/ASTM requirements.



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