

C307

Transition Coupling (IPS x CTS)



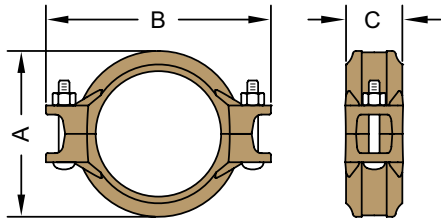
Ensure coupling bolt pads
make metal-to-metal contact.



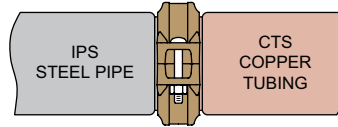
ROLL SET

As copper tubing is thinner than carbon steel pipe, always use a roll set specifically designed for use on copper tubing.

| | |
|------------------|--|
| Job Name: | |
| Job Location: | |
| Engineer: | |
| Contractor: | |
| Tag: | |
| PO#: | |
| Rep: | |
| Wholesale Dist.: | |



The Model C307 Transition Coupling provides for a direct connection between grooved end IPS steel pipe, fittings or valves and grooved end CTS copper tubing. The C307 is comprised of two ductile iron housings, pressure responsive rubber gasket and track bolts and nuts. The rubber gasket isolates the fluid from coupling housings and the epoxy coated housings help eliminate galvanic local cell and stray current problems.



DIMENSIONS

| NOMINAL SIZE | PIPE O.D. IPS X CTS | MAX. WORKING PRESSURE (CWP)* | AXIAL DISPLACEMENT | DEFLECTION | DIMENSIONS | | | BOLT SIZE | WEIGHT |
|--------------|---------------------|------------------------------|--------------------|------------|------------|----------|----------|-------------|----------|
| | | | | | A | B | C | | |
| in mm | in mm | PSI Bar | in mm | (°) | in mm | in mm | in mm | in | lb kg |
| 2 | 2.375 x 2.125 | 300 | 0 - 0.06 | 1° - 31' | 3.31 | 5.00 | 1.81 | 1/2 x 2-1/8 | 2.0 |
| 50 | 60.3 x 54.0 | 20 | 0 - 1.6 | | 84 | 127 | 46 | | 0.9 |
| 2-1/2 | 2.875 x 2.625 | 300 | 0 - 0.06 | 1° - 15' | 3.90 | 5.59 | 1.81 | 3/8 x 2-1/8 | 2.2 |
| 65 | 73.0 x 66.7 | 20 | 0 - 1.6 | | 99 | 142 | 46 | | 1.0 |
| 3 | 3.500 x 3.125 | 300 | 0 - 0.06 | 1° - 02' | 4.57 | 6.38 | 1.81 | 1/2 x 3 | 3.0 |
| 80 | 88.9 x 79.4 | 20 | 0 - 1.6 | | 116 | 162 | 46 | | 1.4 |
| 4 | 4.500 x 4.125 | 300 | 0 - 0.06 | 1° - 36' | 5.71 | 6.69 | 1.85 | 1/2 x 3 | 4.2 |
| 100 | 114.3 x 104.8 | 20 | 0 - 1.6 | | 145 | 170 | 47 | | 1.9 |
| 6 | 6.625 x 6.125 | 300 | 0 - 0.06 | | 8.03 | 10.59 | 1.97 | 5/8 x 3-1/2 | 7.3 |
| 150 | 168.3 x 155.6 | 20 | 0 - 1.5 | | 204 | 269 | 50 | | 3.3 |

*Working pressure is for connection with roll-grooved Type K copper tubing.

Notes / Options: Couplings with rubber gaskets are likely to function as an insulator. Where electrical continuity is required, the Shurjoint Model 96 Continuity Clip will restore electrical continuity to the system. The continuity clip satisfies IEE Wiring Regulations.

MATERIAL SPECIFICATIONS

HOUSING:

- Ductile Iron to ASTM A536, Gr. 65-45-12 and or to ASTM A395, Gr. 65-45-15, min. tensile strength 65,000 psi (448 MPa).N

COATING:

- Epoxy coated in copper color

RUBBER GASKET:

Gr. "E-pw" EPDM (Color code: Double Green Stripes)

- Good for cold +86°F (+30°C) and hot +180°F (+82°C) potable water services. EPDM is UL classified per NSF/ANSI 61 & NSF/ANSI 372.

BOLTS & NUTS:

- Heat treated carbon manganese steel track bolts to ASTM A449-83a (or A183 Gr. 2), minimum tensile strength 110,000 psi (758 MPa), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563.

GENERAL NOTES

- Maximum Working Pressure (CWP) listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. Figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact Shurjoint for additional information.
- Max. End Load is calculated based on the maximum working pressure (CWP).
- Field Joint Test: For one time only the system may be tested hydrostatically at 1.5 times the maximum working pressure listed (AWWA C606 5.2.3).
- Warning: Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- The 10 Year Limited Warranty applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.