

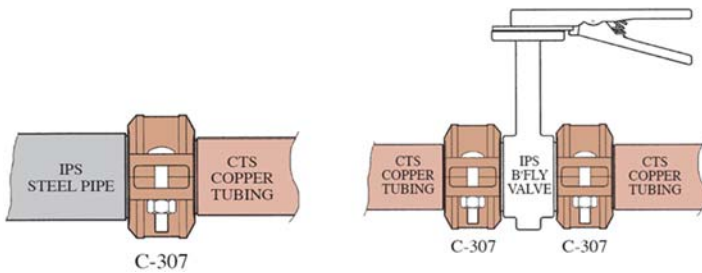
C307 TRANSITION COUPLING



For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website www.shurjoint.com for details or contact your SHURJOINT representatives.

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

Examples:



material specification

- Housing:**
 Ductile Iron to ASTM A536, Gr. 65-45-12, min. tensile strength 65,000 psi (448MPa).
- Coating:**
 Copper color epoxy.
- Rubber Gasket:**
 Grade E-pw EPDM (Color code: Double Green stripe) certified under NSF/ANSI 61 and NSF/ANSI 372 for potable water service to +180°F (+82°C). Also good for services for water with acid, water with chlorine or chloramines, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals.
 Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C).
- 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.

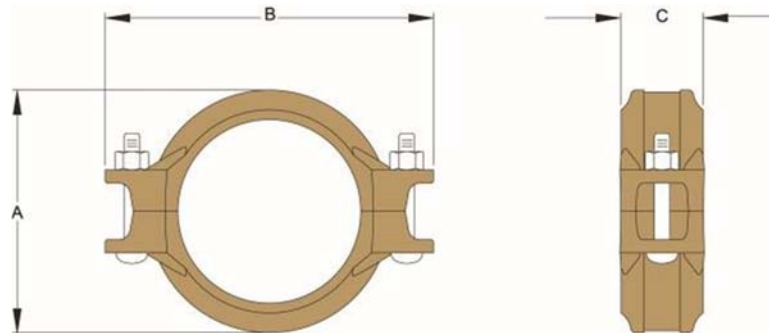


C307 couplings should always be installed so that the coupling bolt pads make metal to metal contact



Roll Set

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



Model C307 Transition Coupling

Nominal Size	Pipe O.D. IPS x CTS	Max. Working Pressure (CWP)*	Axial Displacement	Dimensions			Bolts Size	Weight
				A	B	C		
in	in	PSI	in	in	in	in	in	lbs
mm	mm	Bar	mm	mm	mm	mm		kg
2	2.375 x 2.125	300	0 - 0.06	3.31	5.00	1.81	3/8 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	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	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	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. Pressure ratings for use on Type L, Type M, and Type DWV copper tubing can be found on Shurjoint publication [B-43](#).

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.

General note

- 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).
- Listed and or Approved Pressures are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the Shurjoint website.
- Field Joint Test: For one time only, the system may be tested hydrostatically at 1 1/2 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.