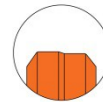


## MODEL 7771-T IPS / JIS TRANSITION COUPLING

The **Shurjoint** Model 7771-T Transition Coupling provides a direct transition from IPS pipe sizes to JIS pipe sizes. Any combination of pipe, valves or fittings of different pipe OD's of nominal sizes 8" through 12" can be connected with a single coupling. As bolts and nuts are fastened until the bolt pads come to a metal-to-metal contact, the coupling provides a rigid and positive joint.

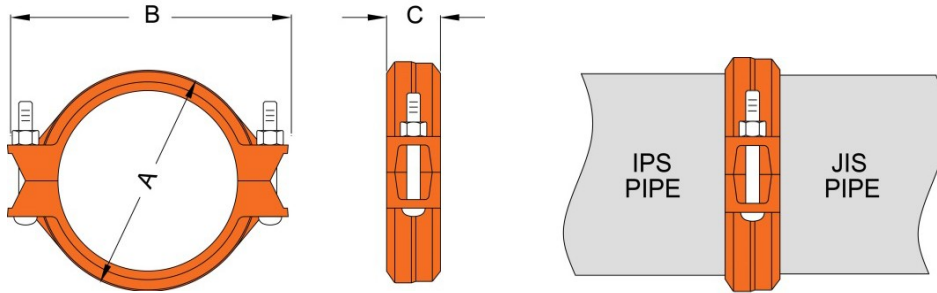
The stepped exterior design of the housings aids to avoid erroneous positioning of IPS and JIS sides of the housings.



Stepped Design



7771-T couplings should always be installed so that the coupling bolt pads make metal to metal contact.



Full warranty terms can be found on [www.shurjoint.com](http://www.shurjoint.com)

Model 7771-T IPS / JIS Transition Coupling										
Nominal Size	Actual Pipe O.D.		Max. Working Pressure (CWP)*	Max. End Load (CWP)	Total Axial Movement †	Dimensions			Bolt Size	Weight
	IPS	JIS				A	B	C		
mm	in	in	PSI	Lbs	in	in	in	in	mm	Lbs
	mm	mm	Bar	kN	mm	mm	mm	mm		Kgs
200 JIS	8.625	8.515	300	17520	0.13	10.20	13.19	2.50	M16 x 135	15.4
	219.1	216.3	20	75.37	3.2	259	335	63		
250 JIS	10.750	10.528	300	27190	0.13	12.46	15.20	2.50	M20 x 120	19.8
	273.0	267.4	20	117.01	3.2	316	386	63		
300 JIS	12.750	12.539	300	38280	0.13	14.45	17.64	2.50	M22 x 165	24.2
	323.9	318.5	20	164.71	3.2	367	448	63		

For 6" (168.3) x 6" (165.1), see Model 7706-T.

\* Working Pressure is based on roll- or cut-grooved standard wall carbon steel pipe.

† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾" – 3½"; 25% for 4" and larger to compensate for jobsite conditions.

## MATERIAL SPECIFICATIONS

### • Housing:

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

### • Surface Finish:

Standard painted finishes in orange or RAL3000 red.

- Hot dip zinc galvanized (Option).
- Epoxy Coatings in RAL3000 red or other colors (Option)

### • Rubber Gasket:

**Grade "E" EPDM** (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals.

**Not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**

Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C)\*.

\*EPDM gaskets for water services are not recommended for steam services unless couplings or components are accessible for frequent gasket replacement.

- (Option) **Grade "T" Nitrile** (Color code: Orange stripe) Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Also good for water services under +150°F (+66°C).  
Temperature range: -20°F to +180°F (-29°C to +82°C).  
**Do not use for HOT WATER above +150°F (+66°C) or HOT DRY AIR above +140°F (+60°C).**
- Other options: Grade "O" - Fluoroelastomer.  
Grade "L" - Silicone.  
For additional details contact **Shurjoint**.

### • 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 1½ 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.

**Shurjoint** product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact **Shurjoint** Technical Service. **Shurjoint** reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on **Shurjoint** products previously subsequently sold.