

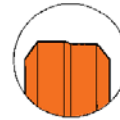
MODEL 7771-T IPS / JIS TRANSITION COUPLING

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.



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



Stepped Design



Pressure-Temperature Rating

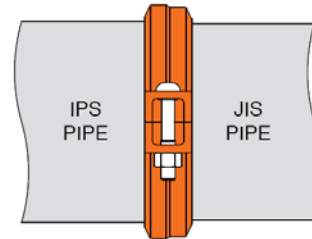
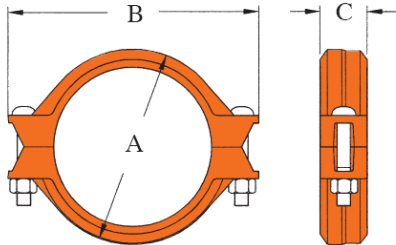
Nom. Rating	Working Pressure	Max. Service Temperature
Class 150	300 psi @ 100°F 20 Bar @ 38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

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

*Proof test pressure: 1.5 times the working pressure, non-shock cold water.

*Burst pressure is engineered minimum 3 times the working pressure

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Nominal Size	Actual Pipe O.D.		Max. Working Pressure	Max. End Load	Total Axial Movement	Dimension			Bolt Size	Weight
	IPS	JIS				A	B	C		
mm	mm	mm	Bar	kN	mm	mm	mm	mm	mm	Kgs
	in	in	PSI	Lbs	in	in	in	in		Lbs
200 JIS	219.1 8.625	216.3 8.515	20 300	75.37 17520	3.2 0.13	259 10.20	335 13.19	63 2.50	M16 x 135	7.0 15.4
250 JIS	273.0 10.750	267.4 10.528	20 300	117.01 27190	3.2 0.13	316 12.46	386 15.20	63 2.50	M20 x 120	9.0 19.8
300 JIS	323.9 12.750	318.5 12.539	20 300	164.71 38280	3.2 0.13	367 14.45	448 17.64	63 2.50	M22 x 165	11.0 24.2

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

MATERIAL SPECIFICATIONS

• Housing:

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

• 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:

To assure maximum life for the service intended, proper gasket selection and specification in ordering is essential. Failure to select the proper gasket compound may result in personal injury, property damage, joint leakage or joint failure.

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).

- (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 +66°C (+150°F). Temperature range: -29°C to +82°C (-20°F to +180°F). **Do not use for HOT WATER above +66°C (+150°F) or HOT DRY AIR above +60°C (+140°F).**
- 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 758 MPa (110,000 psi), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563.

General Notes:

- Pressure ratings listed are CWP (cold water pressure) or maximum working pressure within the service temperature range of the gasket used in the coupling. For additional information contact **Shurjoint**.
- Maximum working pressures and end loads listed are total of internal and external pressures and loads based on Sch.40 steel pipe with roll grooves to ANSI/AWWA C606-07 specifications. For information on other pipe schedules contact **Shurjoint**.
- **For one time field test only** the maximum joint working pressure may be increased 1½ times the figures shown.
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **Shurjoint** reserves the right to change specifications, designs and or standard equipment without notice and without incurring any obligations.

Job Name:	System No.	Location:
Contractor:	Approved:	Date:
Engineer:	Approved:	Date:

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.