aalberts integrated piping systems

# 7771-T IPS/JIS TRANSITION COUPLING


The Shurjoint Model 7771-T Transition Coupling provides a direct transition from IPS pipe sizes to BS/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.

## material specification

- Housing:
  Ductile Iron to ASTM A536, Gr. 65-45-12, 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 or chloramines, 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.
  - Other options: Grade "T" - Nitrile
    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.



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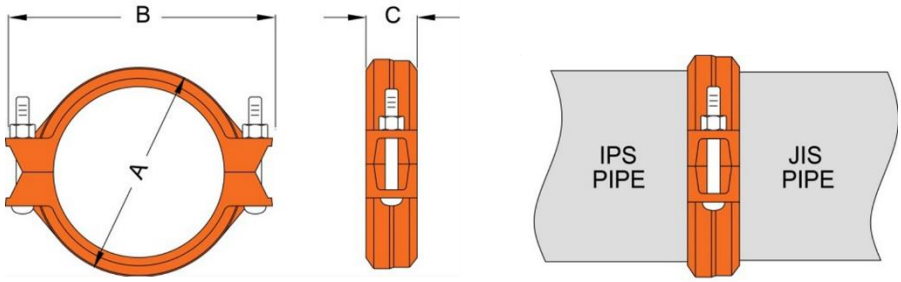


## Model 7771-T IPS/JIS Transition Coupling

| Normal Size | Actual Pipe O.D. | | Max. Working Pressure (CWP)* | Max. End Load (CWP) | Axial Displacement† | Dimensions | | | Bolt Size | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | IPS | JIS | | | | A | B | C | | |
| in | in | in | psi | lbf | in | in | in | in | mm | lbs |
| mm | mm | mm | bar | kN | mm | mm | mm | mm | | kg |
| 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 | | 7.0 |
| 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 | | 9.0 |
| 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 | | 11.0 |

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 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.

## 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).
- 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.



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