

H305 ISO HDPE 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 *Shurjoint* Model H305 ISO HDPE couplings are designed to provide a fast and easy way to mechanically join HDPE (high polyethylene) pipe.

The *Shurjoint* Model H305 ISO HDPE couplings feature four bolt housings and a series of sharply machined teeth, which positively grip the pipe as the coupling housing is tightened. The result is a leak-tight joint that is as strong or stronger than the pipe itself. The H305 also features a contoured housing with integral ramps along the outside diameter to help the coupling slide over most obstacles during the relocation of pipe runs.



H305 ISO HDPE Couplings should always be installed so that the coupling bolt pads make metal to metal contact.

Shurjoint HDPE couplings are not intended for use on PVC, PP or other materials.



Shurjoint recommends the use of a silicone-based lubricant for the HDPE series. Do not use the *Shurjoint* standard lubricant, which is designed for steel pipe use. Do not use hydrocarbon-based oils, grease or soap-based solutions either as this could lead joint failure.

material specification

- **Housing:**
Ductile Iron to ASTM A536, Gr. 65-45-12, min. tensile strength 65,000 psi (448 MPa).
- **Surface Finish:**
Standard painted finish in orange
 - Electro-zinc plated (Option)

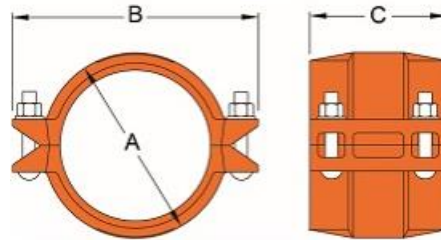
- **Rubber Gasket:**
Grade "E" EPDM (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine or chloramines, deionized water, seawater and wastewater, dilute acids, oil-free air, and many chemicals.
Not recommended for 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 110,000psi, (758 MPa), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563. For Size 355mm to 450mm, Carbon steel Hexagon head bolts to ISO 4014: 1999, Nickel electroplated to ISO 1456, with hexagonal nuts to ISO 898-2-1999.
- **Washers:**
Carbon steel to ASTM A36, ISO 3574. Gr. A. Large size washer to ISO 7089, DIN 25 or JIS B 1256 - 1978. Zinc Plated to ISO 4042 or JIS B1044. Hardness: HV300.



Model H305 ISO HDPE Coupling

| Pipe O.D. | | Dimensions | | | Coupling Bolts | | Weight |
|-----------|-------|------------|-----|-----|----------------|-----------|--------|
| Min | Max | A | B | C | No. | Size | Kgs |
| mm | mm | mm | mm | mm | | mm | |
| 50 | 50.5 | 72 | 115 | 105 | 4 | M10 x 55 | 1.5 |
| 63 | 63.6 | 85 | 128 | 105 | 4 | M10 x 55 | 1.9 |
| 75 | 75.7 | 97 | 140 | 105 | 4 | M10 x 55 | 2.4 |
| 90 | 90.9 | 113 | 169 | 105 | 4 | M12 x 75 | 3.3 |
| 110 | 111 | 139 | 181 | 112 | 4 | M12 x 75 | 4.1 |
| 140 | 141.3 | 169 | 210 | 118 | 4 | M12 x 75 | 4.5 |
| 160 | 161.5 | 190 | 232 | 118 | 4 | M12 x 97 | 5.6 |
| 180 | 181.7 | 211 | 253 | 118 | 4 | M12 x 97 | 7.5 |
| 200 | 201.8 | 236 | 305 | 127 | 4 | M16 x 90 | 9.4 |
| 225 | 226.4 | 261 | 330 | 127 | 4 | M16 x 90 | 11.3 |
| 250 | 252.3 | 289 | 351 | 134 | 4 | M16 x 110 | 12.7 |
| 280 | 281.7 | 319 | 406 | 134 | 4 | M20 x 120 | 18.4 |
| 315 | 317.9 | 354 | 438 | 134 | 4 | M20 x 120 | 16.7 |
| 355 | 357.2 | 412 | 489 | 256 | 4 | M24 x 110 | 41.2 |
| 400 | 402.4 | 462 | 540 | 256 | 4 | M24 x 110 | 44.2 |
| 450 | 452.7 | 515 | 595 | 256 | 4 | M24 x 110 | 57.7 |

*The applicable HDPE pipe for Model H305 ISO HDPE couplings are ISO 161/1, AS 1159 and DIN 8074 with pipe thickness from DR 32.5 to 7.3 (depending on size and pipe material). (The Model H305 couplings are also available in ASTM HDPE pipe standards)

*Working Pressure: Since the physical strength of the Shurjoint HDPE couplings is much greater than HDPE pipe, working pressures are governed by the working pressures of the HDPE pipe, which vary depending on pipe composition, wall thickness and service temperatures.

General note

- 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.