

MODEL H305 ISO HDPE COUPLING

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.

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.

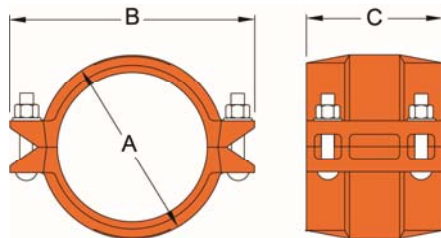


Full warranty terms can be found on www.shurjoint.com



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 to joint failure.



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; refer to **Shurjoint** cut sheet #Q-01 for details.)

Model H305 ISO HDPE Coupling								
Pipe O.D.		Dimensions			Coupling Bolts			
Minimum	Maximum	A	B	C	No.	Size	Weight	
mm	mm	mm	mm	mm		mm	Kgs	
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	111.0	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 75	5.6	
180	181.7	211	253	118	4	M12 x 75	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	

*Unlisted sizes are also available. Please contact **Shurjoint**.

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.
- Electro-zinc plated (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.

- 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.

General Notes:

- **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.

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.