

## MODEL H305 HDPE COUPLING

The **Shurjoint** Model H305 HDPE couplings feature four bolt housings and a series of sharply machined teeth which positively grip the pipe as the coupling bolts and nuts are 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.



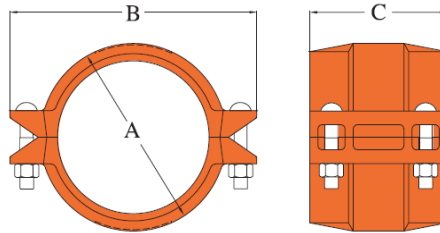
H305 HDPE couplings should always be installed so that the coupling bolt pads make metal to metal contact.

**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.



**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.



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

Model H305 HDPE Coupling								
Nominal Size	Pipe O.D.	Dimensions			Bolts No.	Bolts Size	Approx. Weight	
		A	B	C				
in	in	in	in	in		in	Lbs	
mm	mm	mm	mm	mm		mm	Kgs	
2	2.375	3.39	5.24	4.57	4	½ x 2¾	5.7	
50	60.3	86	133	116			2.6	
3	3.500	4.61	6.50	4.57	4	½ x 3	7.9	
80	88.9	117	165	116			3.6	
4	4.500	5.75	7.99	5.75	4	½ x 3	11.4	
100	114.3	146	203	146			5.2	
5	5.563	6.66	8.25	4.63	4	½ x 3	9.9	
125	141.3	169	210	118			4.5	
6	6.625	7.87	10.75	5.87	4	¾ x 3½	18.0	
150	168.3	200	273	149			8.2	
8	8.625	10.39	13.11	5.98	4	¾ x 3½	28.4	
200	219.1	264	333	152			12.9	
10	10.750	12.52	15.63	6.50	4	¾ x 4¾	43.6	
250	273.0	318	397	165			19.8	
12	12.750	14.37	17.64	7.09	4	¾ x 4¾	56.1	
300	323.9	365	448	180			25.5	
14	14.000	16.26	19.37	10.08	4	1 x 4½	90.6	
350	355.6	413	492	256			41.2	
16	16.000	18.39	21.38	10.08	4	1 x 4½	97.2	
400	406.4	467	543	256			44.2	
18	18.000	20.28	23.43	10.08	4	1 x 4½	111.1	
450	457.2	515	595	256			50.5	
20	20.000	22.36	25.63	10.08	4	1 x 4½	136.0	
500	508.0	568	651	256			61.8	

**MATERIAL SPECIFICATIONS**

• **Housing:**

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

• **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 14" to 20" (350 mm to 500 mm), Carbon steel Hexagon head bolts & nuts to SS41 (or JIS G3101), and with Zinc plated carbon steel washers.

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.