



Ensure coupling bolt pads
make metal-to-metal contact.



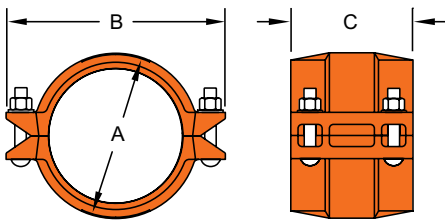
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The Shurjoint Model H305 HDPE couplings feature four bolt housings and a series of sharply machined teeth which positively grip the pipe as the coupling bolts and nuts are tightened. The result is a leak-tight joint that is as strong, or stronger than 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.

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, such as Shurjoint 's EHC lubricant. 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.



DIMENSIONS

IPS

NOMINAL SIZE	PIPE O.D.	DIMENSIONS			BOLT		WEIGHT
		A	B	C	NO.	SIZE	
in	in	in	in	in			lb
mm	mm	mm	mm	mm		in	kg
2	2.375	3.39	5.24	4.57	4	1/2 x 2-3/8	5.7
50	60.3	86	133	116			2.6
3	3.500	4.61	6.50	4.57	4	1/2 x 3	7.9
80	88.9	117	165	116			3.6
4	4.500	5.75	7.95	5.75	4	1/2 x 3	11.4
100	114.3	146	202	146			5.2
5	5.563	6.66	8.25	4.63	4	1/2 x 3	9.9
125	141.3	169	210	118			4.5
6	6.625	7.87	10.75	5.87	4	5/8 x 3-1/2	18.0
150	168.3	200	273	149			8.2
8	8.625	10.39	13.11	6.02	4	5/8 x 3-1/2	28.4
200	219.1	264	333	153			12.9
10	10.750	12.52	15.71	6.50	4	3/4 x 4-3/4	43.6
250	273.0	318	399	165			19.8
12	12.750	14.37	17.80	7.09	4	3/4 x 4-3/4	56.1
300	323.9	365	452	180			25.5
14	14.000	16.26	19.25	10.08	4	1 x 4-1/2	90.6
350	355.6	413	489	256			41.2
16	16.000	18.39	21.30	10.08	4	1 x 4-1/2	97.2
400	406.4	467	541	256			44.2
18	18.000	20.28	23.43	10.08	4	1 x 4-1/2	111.1
450	457.2	515	595	256			50.5
20	20.000	22.36	25.63	10.08	4	1 x 4-1/2	136.0
500	508.0	568	651	256			61.8

DIMENSIONS

ISO

PIPE O.D.		DIMENSIONS			BOLT		WEIGHT
MIN.	MAX.	A	B	C	NO.	SIZE	
mm	mm	mm	mm	mm		mm	kg
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

PRESSURE RATINGS

Shurjoint HPDE couplings are designed to join IPS HPDE pipe, DR32.5 to 7.3, conforming to ASTM D2513, D3350 and/or ANSI/AWWA C901 and ISO HDPE pipe, SDR 9 to 26, conforming to ISO 4427-1/2.

IPS
(PSI)

PIPE DIMENSION RATIO (DR)	PE4710 PE100	PE3608 PE3408
DR 7.3	317	265
DR 9	250	200
DR 11	200	180
DR 13.5	160	130
DR 17	125	100
DR 21	100	80
DR 26	80	65
DR 32.5	63	50

Design Stress: PE4710 1000 psi, PE3608 & 3408 800 psi
DR (Pipe Dimension Ratio)

$$DR = \frac{D}{t}$$

Where:
D = Pipe Outside Diameter, in
t = Pipe Minimum Wall Thickness, in

ISO
(BAR)

PIPE DIMENSION RATIO (SDR)	PE100	PE80
SDR 9	20	16
SDR 11	16	10
SDR 17	10	6.3
SDR 26	6.3	4

Design Stress: PE100 8.0 MPa, PE80 5.0 MPa
SDR (Standard Dimension Ratio)

$$SDR = \frac{D}{t}$$

Where:
D = Pipe Outside Diameter, mm
t = Pipe Minimum Wall Thickness, mm

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 (optional)
- Epoxy coatings in RAL3000 red or other colors (optional)

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).

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.

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.

(Option) Grade "T" Nitrile (Color code: Orange stripe)

- Recommended for petroleum products, air with oil vapors, vegetable and mineral oils.
- 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.

GENERAL NOTES

- 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 1.5 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.