



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



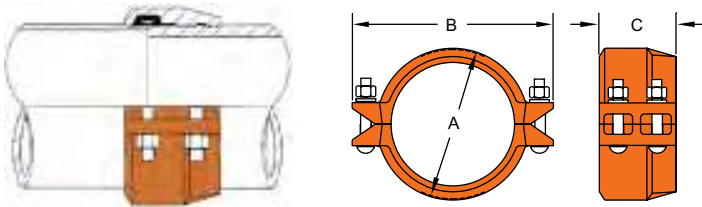
Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

The Shurjoint Model H307 HDPE transition coupling provides for a fast, easy and direct transition from HDPE pipe and or fittings to grooved end steel pipe (IPS). The H307 couplings feature a four bolt housings and a combination of sharply machined teeth and a key section to form a leaktight seal when secured to both pipes. Like the H305 the H307 also features a contoured housing with integral ramps along the outside diameter

**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		in	lb
mm	mm	mm	mm	mm			kg
2	2.375	3.39	5.79	3.11	4	1/2 x 2-3/8	4.4
50	60.3	86	147	79	4	1/2 x 2-3/8	2.0
3	3.500	4.49	6.89	3.11	4	1/2 x 3	5.9
80	88.9	114	175	79	4	1/2 x 3	2.7
4	4.500	5.75	8.23	3.74	4	1/2 x 3	8.4
100	114.3	146	209	95	4	1/2 x 3	3.8
6	6.625	8.00	11.02	3.74	4	5/8 x 3-1/2	12.5
150	168.3	203	280	95	4	5/8 x 3-1/2	5.7
8	8.625	10.51	13.46	4.25	4	5/8 x 3-1/2	21.3
200	219.1	267	342	108	4	5/8 x 3-1/2	9.7
10	10.750	12.64	16.69	5.00	4	3/4 x 4-3/4	35.2
250	273.0	321	424	127	4	3/4 x 4-3/4	16.0
12	12.750	14.76	19.02	5.00	4	3/4 x 4-3/4	43.1
300	323.9	375	483	127	4	3/4 x 4-3/4	19.6

**DIMENSIONS**

ISO

PIPE O.D.		DIMENSIONS			BOLT		WEIGHT
HDPE	IPS	A	B	C	NO.	SIZE	
mm	mm	mm	mm	mm		mm	kg
63.0	60.3	86	146	73	4	M10 x 55	1.5
75.0	73.0	97	159	73	4	M10 x 55	1.9
90.0	88.9	114	178	73	4	M12 x 75	2.3
110.0	114.3	144	203	76	4	M12 x 75	2.8
160.0	165.1	194	254	76	4	M12 x 75	6.2
160.0	168.3	198	257	76	4	M12 x 75	6.2
200.0	219.1	256	321	85	4	M16 x 90	6.4
250.0	273.0	321	394	97	4	M20 x 120	11.9
315.0	323.9	375	451	97	4	M20 x 120	12.7

**PRESSURE RATINGS**

Shurjoint HDPE couplings are designed to join IPS HDPE 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.

**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.