



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



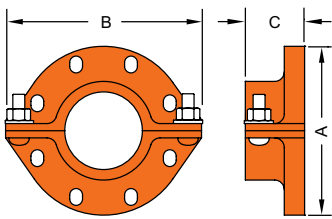
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The Shurjoint Model H312 HDPE flange adapter provides for the direct transition from HDPE pipe or fittings to ANSI class 125 or 150 flanged components. The H312 can be rotated for fast and easy bolt alignment prior to tightening. The gasket seals both on the outside of the pipe and to the flange face providing a leak-tight seal when secured in place.

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		FLANGE BOLT / NUT*		WEIGHT
		A	B	C	NO.	SIZE	NO.	SIZE	
in	in	in	in	in		in		in	lb
mm	mm	mm	mm	mm					kg
3	3.500	7.75	8.86	3.10	2	5/8 x 2-1/8	4	5/8	10.6
80	88.9	197	225	79					4.8
4	4.500	9.00	10.25	3.10	2	5/8 x 2-1/8	8	5/8	15.0
100	114.3	229	260	79					6.8
6	6.625	11.00	12.25	3.75	2	5/8 x 2-1/8	8	3/4	21.5
150	168.3	279	311	95					9.8
8	8.625	13.50	14.75	3.42	2	3/4 x 2-3/8	8	3/4	28.8
200	219.1	343	375	87					13.1
10	10.750	16.00	21.00	4.25	4	3/4 x 2-3/8	12	7/8	42.9
250	273.0	406	533	108					19.5
12	12.750	19.02	24.00	4.25	4	3/4 x 2-3/8	12	7/8	51.5
300	323.9	483	610	108					23.4

DIMENSIONS

ISO

PIPE O.D.		DIMENSIONS			DRAW BOLT / NUT		FLANGE BOLT / NUT *		WEIGHT
HDPE	STEEL	A	B	C	NO.	SIZE	NO.	SIZE	
mm	mm	mm	mm	mm		mm		mm	kg
63	60.3	165	197	79	2	M16 x 54	4	M16	4.3
90	88.9	200	241	79	2	M16 x 54	8	M16	4.8
110	114.3	220	260	79	2	M16 x 54	8	M16	6.8
160	165.1	285	330	82	2	M20 x 60	8	M20	9.8
200	219.1	340	400	108	2	M20 x 60	12 (PN 16)	M20	13.1
250	273.0	405	533	108	4	M24 x 100	12	M24	19.5
315	323.9	460	587	108	4	M24 x 100	12	M24	28.5

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 steel track bolts to ASTM A183 Gr. 2, zinc electroplated with heavy-duty hex nuts to ASTM A563. (Flange bolts and nuts are to be prepared by installer.)

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.