Victaulic[®] HDPE Plain End Fittings





1.0 PRODUCT DESCRIPTION

Available Sizes

- 2 8" IPS high-density polyethylene (HDPE)
- 63 225 mm ISO high-density polyethylene (HDPE)
- Available in SDR 7, 9, 11, and 17

Maximum Working Pressure

• Permissible maximum operating pressures shall meet the full pressure rating of the adjoining HDPE pipe. These pressures are depicted in the governing standards cited in the Performance Sections 5.0 and 5.1 for IPS and ISO HDPE pipe.

Function

- Full flow fittings: 90° Elbow, 45° Elbow, Tee, Concentric Reducer
- For use with Style 905, Style 907, Style 904

2.0 CERTIFICATION/LISTINGS

Product designed and manufactured under Victaulic's Quality Management System, as certified by LPCB in accordance with ISO 9001:2008.

3.0 SPECIFICATIONS - MATERIAL

IPS Fittings: The IPS fitting material (compound) is PPI listed as PE4710 in PPI TR-4 and meets cell classification of 445574 per ASTM D3350.

ISO Fittings: The ISO fitting material (compound) is ISO 9080 compliant, has an active PE100+ association listing, and meets the requirements of ISO 4427-1.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.	Location	Spec Section	Paragraph	
Submitted By	Date	Approved	Date	



4.0 **DIMENSIONS**

HDPE Plain End Fittings – IPS Standard







			No. H10 90° Elbov			No. H11 45° Elbow				No. H20 Tee					
Size		SDR 7	SDR 9	SDR 11	SDR 17		SDR 7	SDR 9	SDR 11	SDR 17		SDR 7	SDR 9	SDR 11	SDR 17
Nominal	C to E	Weight Each	Weight Each	Weight Each	Weight Each	C to E	Weight Each	Weight Each	Weight Each	Weight Each	C to E	Weight Each	Weight Each	Weight Each	Weight Each
inches	inches	lb	lb	lb	lb	inches	lb	lb	lb	lb	inches	lb	lb	lb	lb
2	4.38	0.8	0.6	0.6	0.5	3.63	0.6	0.5	0.5	0.4	4.38	1.0	0.9	0.8	0.6
3	5.25	1.5	1.7	1.5	1.1	3.88	1.4	1.2	1.0	0.7	5.25	2.6	2.1	1.9	1.4
4	6.00	3.6	3.0	2.6	1.9	4.50	2.6	2.1	1.9	1.4	6.00	4.6	3.8	3.4	2.5
6	7.50	9.2	7.7	6.6	4.9	4.88	6.1	5.0	4.3	3.3	7.50	12.0	10.1	8.6	6.4
8	9.25	16.0	15.4	13.0	10.0	5.25	11.0	8.9	9.0	7.0	9.25	23.0	20.7	19.0	15.0

NOTE

• Fitting C - E dimensions based on fittings at 73°F/23°C



	No. H50 IPS Concentric Reducer						
Size		SDR 7	SDR 9	SDR 11	SDR 17		
Nominal	E to E	Weight Each	Weight Each	Weight Each	Weight Each		
inches	inches	lb	lb	lb	lb		
3 x 2	7.00	1.0	0.9	0.8	0.6		
4 x 2	8.00	1.6	1.4	1.1	0.7		
4 x 3	8.00	2.0	1.7	1.4	1.0		
6 x 3	9.50	4.2	3.7	2.8	1.9		
6 x 4	9.50	4.7	4.0	3.5	2.7		

NOTE

• Fitting E - E dimensions based on fittings at 73°F/23°C



4.1 **DIMENSIONS**

HDPE Plain End Fittings – ISO Standard







		No. 90° I	H10 Elbow			No. H11 45° Elbow			No. H20 Tee			
Size		SDR 7.4	SDR 11	SDR 17		SDR 7.4	SDR 11	SDR 17		SDR 7.4	SDR 11	SDR 17
Nominal mm	C to E mm	Weight Each kg	Weight Each kg	Weight Each kg	C to E mm	Weight Each kg	Weight Each kg	Weight Each kg	C to E mm	Weight Each kg	Weight Each kg	Weight Each kg
63	115	0.4	0.3	0.2	90	0.3	0.2	0.2	115	0.5	0.4	0.3
75	124	0.6	0.4	0.4	95	0.4	0.3	0.2	124	0.7	0.5	0.4
90	130	0.7	0.7	0.5	100	0.7	0.5	0.3	130	1.2	0.9	0.7
110	155	1.5	1.1	0.8	110	1.1	0.8	0.6	155	2.0	1.4	1.1
125	162	1.9	1.4	1.0	117	1.4	1.0	0.8	162	2.5	1.9	1.4
140	172	2.9	2.1	1.5	120	1.9	1.4	1.0	172	3.8	2.7	2.0
160	185	3.8	2.7	1.8	125	2.6	1.8	1.2	185	4.7	3.3	2.2
180	219	4.8	3.4	2.6	130	3.2	2.3	1.7	219	6.2	4.5	3.3
200	229	6.0	4.2	3.2	137	3.9	2.8	2.1	229	7.7	5.5	4.1
225	241	7.6	6.2	4.8	143	5.2	4.3	3.3	241	11.0	9.0	7.1

NOTE

• Fitting C - E dimensions based on fittings at 73°F/23°C



	No. H50 METRIC Concentric Reducer						
Size		SDR 7.4	SDR 11	SDR 17			
Nominal mm	E to E mm	Weight Each kg	Weight Each kg	Weight Each kg			
90 x 63	178	0.5	0.3	0.2			
110 x 63	203	0.7	0.5	0.3			
110 x 90	203	0.9	0.6	0.4			
160 x 90	241	1.7	1.2	0.8			
160 x 110	241	1.9	1.3	0.9			

NOTE

• Fitting E - E dimensions based on fittings at 73°F/23°C



5.0 PERFORMANCE

HDPE Plain End Fittings – IPS Standard

Pressure Rating: Victaulic plain end HDPE fittings meet the pressure ratings of corresponding HDPE pipe.

	PE4710 Fitting Pressure Rating ² DR						
Nominal Size	7	9	11	17			
inches	psi kPa						
2 - 8	333 2295	250 1725	200 1380	125 860			

² HDPE fitting conforming to ASTM D3035, ASTM F714, AND ASTM D3261 at 73°F/23°C. Contact Victaulic for derating factors at other temperatures.

5.1 PERFORMANCE

HDPE Plain End Fittings – ISO Standard

Pressure Rating: Victaulic plain end HDPE fittings meet the pressure ratings of corresponding HDPE pipe.

		PE100 Fitting Pressure Rating ³ SDR					
	7.4	11	17				
Nominal Size mm		(PN) Bar kPa psi					
	PN 25	PN 16	PN 10				
63 – 225	2500	1600	1000				
	363	232	145				

³ HDPE fitting conforming to EN 12201, EN ISO 15494, and ISO 4427-3 at 68°F/20°C. Contact Victaulic for derating factors at other temperatures.

6.0 NOTIFICATIONS



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions may cause joint failure, resulting in death or serious personal injury and property damage.



7.0 REFERENCE MATERIALS

I-900: Victaulic HDPE Products Installation and Assembly Manual 19.07: Victaulic Style 905 Coupling for Plain End HDPE 19.10: Victaulic Style 907 Transition Coupling for HDPE-to-Steel 19.12: Victaulic Style 904 Flange Adapter for HDPE-to-Flanged Pipe 29.01: Victaulic Terms and Conditions/Warranty

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty

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