



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.

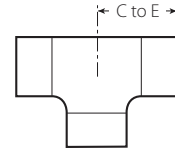
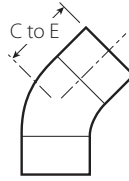
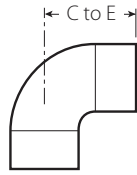
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

4.0 DIMENSIONS

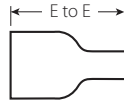
HDPE Plain End Fittings – IPS Standard



Size	No. H10 90° Elbow					No. H11 45° Elbow					No. H20 Tee				
	C to E	SDR 7	SDR 9	SDR 11	SDR 17	C to E	SDR 7	SDR 9	SDR 11	SDR 17	C to E	SDR 7	SDR 9	SDR 11	SDR 17
Nominal inches	inches	Weight Each lb	Weight Each lb	Weight Each lb	Weight Each lb	inches	Weight Each lb	Weight Each lb	Weight Each lb	Weight Each lb	inches	Weight Each lb	Weight Each lb	Weight Each lb	Weight Each 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



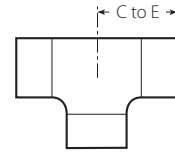
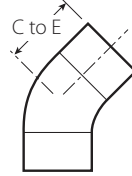
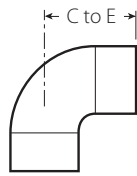
Size	No. H50 IPS Concentric Reducer				
	E to E	SDR 7	SDR 9	SDR 11	SDR 17
Nominal inches	inches	Weight Each lb	Weight Each lb	Weight Each lb	Weight Each lb
3 x 2	7.00	1.0	0.9	0.8	0.6
4 x 2	8.00	1.6	1.4	1.1	0.7
4 x 3	8.00	2.0	1.7	1.4	1.0
6 x 3	9.50	4.2	3.7	2.8	1.9
6 x 4	9.50	4.7	4.0	3.5	2.7

NOTE

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

4.1 DIMENSIONS

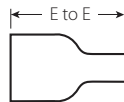
HDPE Plain End Fittings – ISO Standard



Size	No. H10 90° Elbow			No. H11 45° Elbow			No. H20 Tee					
	C to E mm	SDR 7.4 Weight Each kg	SDR 11 Weight Each kg	SDR 17 Weight Each kg	C to E mm	SDR 7.4 Weight Each kg	SDR 11 Weight Each kg	SDR 17 Weight Each kg	C to E mm	SDR 7.4 Weight Each kg	SDR 11 Weight Each kg	SDR 17 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



Size	No. H50 METRIC Concentric Reducer			
	E to E mm	SDR 7.4 Weight Each kg	SDR 11 Weight Each kg	SDR 17 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.

Nominal Size inches	PE4710 Fitting Pressure Rating ² DR			
	7	9	11	17
	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.

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

 WARNING				
				
<ul style="list-style-type: none"> • 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. <p>Failure to follow these instructions may cause joint failure, resulting in death or serious personal injury and property damage.</p>				

