



No. 20 Tee



No. 10 Elbow

Certifications/Listings



When supplied as “hot dip galvanized” the following fittings are UL Classified in accordance with ANSI/NSF 61 and for use on cold +86°F/+30°C potable water service and ANSI/NSF 372: No. 10 90° Elbow, No. 11 45° Elbow, No. 12 22 1/2° Elbow, No. 13 11 1/4° Elbow, No. 100 90° Long Radius Elbow, No. 110 45° Long Radius Elbow, No. 20 Tee, No. 25 Tee with Grooved Branch, No. 30 45° Lateral, No. 60 Cap, No. 50 Concentric Reducers, No. 51 Eccentric Reducers.

Note: The following Victaulic fittings are VdS approved: No.10 90° Elbow, No.11 45° Elbow, No.20 Tee and No.60 Cap.

Note: The following Victaulic fittings are LPCB approved: No.10 90° Elbow, No.11 45° Elbow, No.12 22 1/2° Elbow, No.13 11 1/4° Elbow, No.30 45° Lateral, No.30-R Reducing Lateral, No.100 Long Radius Elbow, No.110 Long Radius Elbow, No.20 Tee, No.35 Cross, No.60 Cap, No.25 Reducing Tee, No.33 True Wye, No.50 Concentric Reducer, No.51 Eccentric Reducer and No.29M Tee with Threaded Branch.

Product Description

- Wide range of fittings from ¾ – 60"/20 – 1500 mm
- Fittings conform to the pressure ratings of the Style 77 coupling
- Fittings are provided with grooved or shouldered ends.

Note: These fittings are not intended for use with Victaulic plain end couplings.

- Fittings are intended for use in grooved piping systems only

Note: When connecting wafer or lug type butterfly valves directly to Victaulic fittings using Style 741 or 743 flange adapters, be sure to check disc clearance dimensions with I.D. dimension of fitting.

Job/Owner

System No.	
Location	

Contractor

Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	

Material Specifications

Fitting: (specify choice)

- ☒ Standard: Ductile iron conforming to ASTM A-536, Grade 65-45-12.
- ☒ Optional: Segmentally welded steel as shown under nipples

Nipples: (specify choice)

- ☒ $\frac{3}{4}$ – 4"/20 – 100 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type F
- ☒ 5 – 6"/125 – 150 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type E or S, Gr. B
- ☒ 8 – 12"/200 – 300 mm: Carbon steel, Schedule 30 or 40, conforming to ASTM A-53, Type E or S, Gr. B

Flanged Adapter Nipples: (specify choice)

- ☒ Class 125 Flange: Cast iron conforming to ANSI B-16.1
- ☒ Class 150 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face
- ☒ Class 300 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face

Fitting Coating: (specify choice)

- ☒ Standard: Orange enamel.
- ☒ Optional: Hot dip galvanized and others. Some fittings supplied electroplated as standard – see product specifications.

Flanged Adapter Nipple Coating: (specify choice)

- ☒ Standard: None (Unfinished)
- ☒ Optional: Orange enamel, hot dip galvanized and others.

Dimensions

Elbows

No. 10 90° Elbow

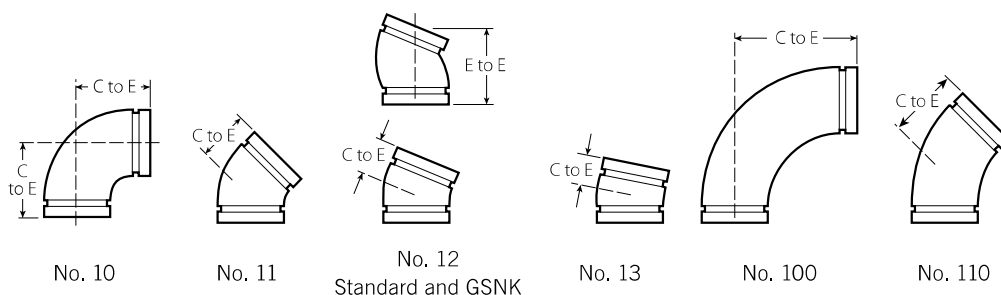
No. 11 45° Elbow

No. 12 22 ½° Elbow

No. 13 11 ¼° Elbow

No. 100 90° Long Radius Elbow

No. 110 45° Long Radius Elbow

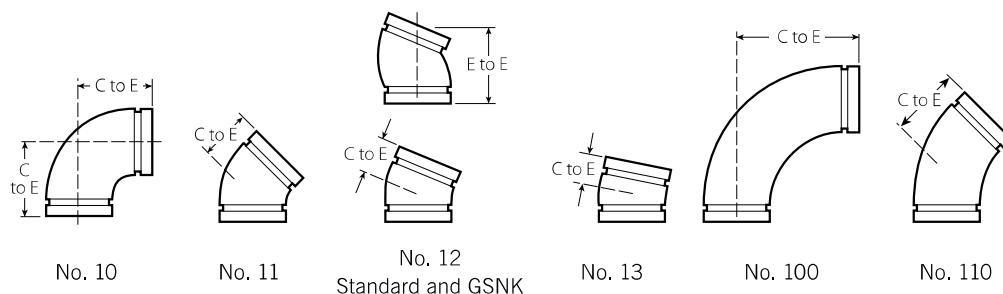


Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow		No. 13 11¼° Elbow		No. 100 90° Long Radius Elbow		No. 110 45° Long Radius Elbow	
Nominal Size	Actual Outside Diameter	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg
¾	1.050	2.25	0.5	1.50	0.5	1.63 (sw)	—	1.38 (sw)	—	2.50 (sw)	0.4	1.88 (sw)	0.3
20	26.9	57	0.2	38	0.2	41	—	35	—	64	0.2	48	0.1
1	1.315	2.25	0.6	1.75	0.6	3.25 ²	0.6	1.38 (sw)	0.3	2.88 (sw)	0.6	2.25 (sw)	0.5
25	33.7	57	0.3	44	0.3	83	0.3	35	0.1	73	0.3	57	0.2
1 ¼	1.660	2.75	1.0	1.75	0.9	1.75	0.8	1.38 (sw)	0.5	3.25 (sw)	1.1	2.38 (sw)	0.7
32	42.4	70	0.5	44	0.4	44	0.4	35	0.2	83	0.5	60	0.3
1 ½	1.900	2.75	1.2	1.75	0.9	1.75	0.8	1.38 (sw)	0.5	3.63 (sw)	2.2	2.50 (sw)	1.3
40	48.3	70	0.5	44	0.4	44	0.4	35	0.2	92	1.0	64	0.6
2	2.375	3.25	1.8	2.00	1.3	1.88	1.2	1.38	1.0	4.38	2.5	2.75	1.8
50	60.3	83	0.8	51	0.6	48	0.5	35	0.5	111	1.1	70	0.8
2 ½	2.875	3.75	3.2	2.25	2.2	4.00 ²	2.3	1.50	1.1	5.13	3.4	3.00	2.8
65	73.0	95	1.5	57	1.0	102	1.0	38	0.5	130	1.5	76	1.3
76.1 mm	3.000	3.75	3.7	2.25	3.4	2.25	—	1.50	—	—	—	—	—
	76.1	95	1.7	57	1.5	57	—	38	—	—	—	—	—
3	3.500	4.25	4.5	2.50	3.1	4.50 ²	3.1	1.50	2.1	5.88	6.0	3.38	4.9
80	88.9	108	2.0	64	1.4	114	1.4	38	1.0	149	2.7	86	2.2
3 ½	4.000	4.50	5.6	2.75	4.3	2.50 (sw)	4.0	1.75 (sw)	2.7	—	—	—	—
90	101.6	114	2.5	70	2.0	64	1.8	44	1.2	—	—	—	—
4	4.500	5.00	7.1	3.00	5.6	2.88	5.6	1.75	3.6	7.50	12.3	4.00	7.3
100	114.3	127	3.2	76	2.5	73	2.5	44	1.6	191	5.6	102	3.3
108.0 mm	4.250	5.00	11.0	3.00	5.6	—	—	—	—	—	—	—	—
	108.0	127	5.0	76	2.5	—	—	—	—	—	—	—	—
4 ½	5.000	5.25 (sw)	10.0	3.13 (sw)	6.0	3.50 (sw)	6.6	1.88 (sw)	4.2	—	—	—	—
120	127.0	133	4.5	79	2.7	89	3.0	48	1.9	—	—	—	—
5	5.563	5.50	11.7	3.25	8.3	2.88 (sw)	7.8	2.00 (sw)	5.0	9.25 (sw)	18.0	4.88 (sw)	14.8
125	141.3	140	5.3	83	3.8	73	3.5	51	2.2	235	8.2	124	6.7
133.0 mm	5.250	5.50	11.7	3.25	8.3	—	—	—	—	—	—	—	—
	133.0	140	5.3	83	3.8	—	—	—	—	—	—	—	—
139.7 mm	5.500	5.50	11.7	3.25	8.3	2.88	—	2.00	—	—	—	—	—
	139.7	140	5.3	83	3.8	73	—	51	—	—	—	—	—
6	6.625	6.50	17.2	3.50	10.8	6.25 ²	12.2	2.00	7.0	10.75	30.4	5.50	17.4
150	168.3	165	7.8	89	4.9	159	5.5	51	3.2	273	13.8	140	7.9

2 Gooseneck design, end-to-end dimension fittings in this size, contact your nearest Victaulic sales representative.

3 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

4 Chinese standard sizes



Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow		No. 13 11¼° Elbow		No. 100 90° Long Radius Elbow		No. 110 45° Long Radius Elbow	
Nominal Size	Actual Outside Diameter	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg
159.0 mm	6.250 159.0	6.50 165	18.6 8.4	3.50 89	10.8 4.9	—	—	—	—	—	—	—	—
165.1 mm	6.500 165.1	6.50 165	15.5 7.0	3.50 89	9.8 4.4	3.13 79	11.4 5.2	2.00 51	7.4 3.4	10.75 (sw) 273	29.0 13.2	5.50 (sw) 140	19.0 8.6
8 200	8.625 219.1	7.75 197	29.9 13.6	4.25 108	20.4 9.3	7.75 ² 197	20.0 9.1	2.00 51	10.1 4.6	14.25 362	66.0 30.0	7.25 184	36.0 16.3
10 250	10.750 273.0	9.00 229	63.3 28.7	4.75 121	37.5 17.0	4.38 (sw) 111	30.0 13.6	2.13 54	11.8 5.3	15.00 381	107.0 48.5	6.25 159	57.0 25.9
12 300	12.750 323.9	10.00 254	74.0 33.6	5.25 133	66.7 30.3	4.88 (sw) 124	40.0 18.1	2.25 57	29.3 13.3	18.00 457	156.0 70.8	7.50 191	90.0 40.8
14 ³ 350	14.000 355.6	14.00 356	136.0 61.7	5.75 146	65.0 29.5	5.00 (sw) 127	46.0 20.9	3.50 (sw) 89	32.0 14.5	21.00 (s) 533	164.0 74.4	8.75 222	82.0 37.2
377.0 mm ⁴	14.843 377.0	14.84 377	149.3 67.7	6.13 156	82.0 37.2	—	—	—	—	—	—	—	—
16 ³ 400	16.000 406.5	16.00 406	171.0 77.6	6.63 168	88.0 39.3	5.00 (sw) 127	58.0 26.3	4.00 (sw) 102	42.0 19.1	24.00 (s) 610	210.0 95.3	10.00 (s) 254	100.0 45.4
426.0 mm ⁴	16.773 426.0	16.75 425	198.6 90.1	7.00 178	101.3 45.9	—	—	—	—	—	—	—	—
18 ³ 450	18.000 457.2	18.00 457	228.0 103.4	7.50 190	108.0 50.0	5.50 (sw) 140	65.0 29.5	4.50 (sw) 144	53.2 24.1	27.00 (s) 686	273.0 123.8	11.25 (s) 286	135.0 61.2
480.0 mm ⁴	18.898 480.0	18.88 480	291.0 132.0	7.83 200	141.7 64.3	—	—	—	—	—	—	—	—
20 ³ 500	20.000 508.0	20.00 508	298.0 135.2	8.25 210	138.0 62.6	6.00 (sw) 152	78.6 36.0	5.00 (sw) 127	65.0 29.5	30.00 (s) 762	343.0 155.6	12.50 (s) 318	174.0 78.9
530.0 mm ⁴	20.866 530.0	20.88 530	355.0 161.0	8.63 219	179.0 81.2	—	—	—	—	—	—	—	—
24 ³ 600	24.000 609.6	24.00 610	438.0 198.7	10.00 254	221.0 100.2	7.00 (sw) 178	140.0 63.5	6.00 (sw) 152	60.0 27.2	36.00 (s) 914	516.0 234.1	15.00 (s) 381	251.0 113.9
630.0 mm ⁴	24.803 630.0	24.80 630	545.0 247.2	10.25 261	255.2 115.7	—	—	—	—	—	—	—	—
14 – 60 350 – 1500	For AGS fitting information, see publication 20.05 												

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3 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

4 Chinese standard sizes

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded