

Grooved End Fittings

PRODUCT DESCRIPTION



Victaulic offers a broad line of fittings in sizes through 48" (1200 mm) in a variety of straight and reducing styles. Most standard fittings are cast of durable ductile iron to precise tolerances. Victaulic standard fittings pressure ratings conform to the ratings of Victaulic Style 77 couplings.

All fittings are supplied with grooves or shoulders to permit fast installation without field preparation. The grooved design per-

mits flexibility for easy alignment. *These fittings are not intended for use with Victaulic couplings for plain end pipe (refer to Section 14.04 for fittings available for plain end applications).*

Fittings are provided in various materials including malleable iron, ductile iron, steel or segmentally welded steel depending on styles and size. Fittings are painted orange enamel with galvanized optionally available, contact Victaulic for details.

Victaulic fittings are designed specifically for use in grooved piping systems. Fittings are provided grooved or with shoulders conforming to standard steel pipe outside diameters. When connecting wafer or lug-type butterfly valves directly to Victaulic fittings with 741 or 743 Vic-Flange® adapters, check disc clearance dimensions with I.D. dimension of fitting.



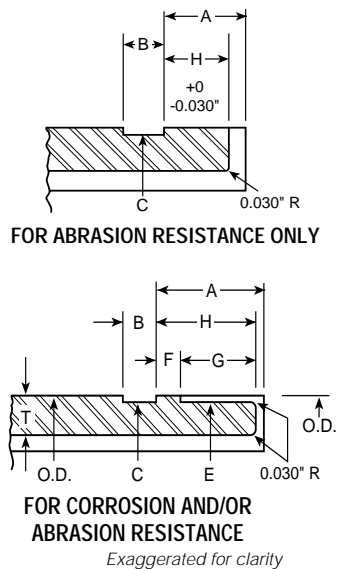
Stainless Steel – Grooved end fittings are available in Schedule 10 Type 316 stainless steel (Schedule 5, 40 and Type 304 optionally available) in various sizes. *Fitting center-to-end dimensions will vary depending upon type and schedule.* Refer to Section 17.04 and 17.16 for details.

Aluminum – Grooved end fittings are available in aluminum alloy 356 T6, in sizes from 1 - 8" (25 - 200 mm). Refer to Section 21.03 or contact Victaulic for details.

Alternate Styles

Extra Heavy EndSeal® "ES" Fittings – EndSeal fittings are available in 2 - 12" (50 - 300 mm) for use with "ES" grooved pipe and HP-70ES EndSeal or Fire-R™ couplings. "ES" fittings are painted green for easy identification. EndSeal (and standard) fittings may be easily internally coated (by others) for severe service requirements. Always specify "ES EndSeal fittings" when ordering. See Section 07.03 for information on EndSeal fittings.

Fittings Machined for Rubber or Urethane Lining (MRL) – For severe abrasive services, Victaulic fittings may be rubber or urethane lined (by others). Lining may be inside diameter/end (abrasion resistance) or wrap-around (corrosion and/or abrasion) machined. Refer to Section 25.03 or contact Victaulic for specific details.



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FLOW DATA†

(Frictional Resistance)

The chart expresses the frictional resistance of various Victaulic fittings as equivalent feet of straight pipe. Fittings not listed can be estimated from the data given, for example, a 22½° elbow is approximately one-half the resistance of a 45° elbow. Values of mid-sizes can be interpolated.

Pipe Size		Dimension – Feet/meters						Pipe Size		Dimension – Feet/meters					
Nominal Dia. In./mm	Actual Outside Dia. In./mm	Elbows				Tees		Nominal Dia. In./mm	Actual Outside Dia. In./mm	Elbows				Tees	
		90° Elbows		45° Elbows		Branch	Run			90° Elbows		45° Elbows		Branch	Run
		No. 10 Std. Radius	No. 100 1½ D Long Radius	No. 11 Std. Radius	No. 110 1½ D Long Radius					No. 10 Std. Radius	No. 100 1½ D Long Radius	No. 11 Std. Radius	No. 110 1½ D Long Radius		
1 25	1.315 33,7	1.7 0,5	–	0.8 0,2	–	4.2 1,3	1.7 0,5	8 200	8.625 219,1	13.0 4,0	9.8 3,0	6.5 2,0	4.0 1,2	33.0 10,1	13.0 4,0
2 50	2.375 60,3	3.5 1,1	2.5 0,8	1.8 0,5	1.1 0,3	8.5 2,6	3.5 1,1	10 250	10.750 273,0	17.0 5,2	12.0 3,7	8.3 2,5	5.0 1,5	41.0 12,5	17.0 5,2
76,1 mm	3.000 76,1	4.3 1,3	–	2.1 0,7	–	10.8 3,3	4.3 1,3	12 300	12.750 323,9	20.0 6,1	14.5 4,4	10.0 3,0	6.0 1,8	50.0 15,2	20.0 6,1
3 80	3.500 88,9	5.0 1,5	3.8 1,2	2.6 0,8	1.6 0,5	13.0 4,0	5.0 1,5	14 350	14.000 355,6	#	15.8 4,8	#	11.0 3,4	70.0 21,3	23.0 7,0
108,0 mm	4.250 108,0	6.4 2,0	–	3.2 0,9	–	15.3 4,7	6.4 2,0	16 400	16.000 406,4	#	18.0 5,5	#	13.0 4,0	80.0 24,4	27.0 8,2
4 100	4.500 114,3	6.8 2,1	5.0 1,5	3.4 1,0	2.1 0,6	16.0 4,9	6.8 2,1	18 450	18.000 457,0	#	20.0 6,1	#	14.0 4,3	90.0 27,4	30.0 9,1
133,0 mm	5.250 133,0	8.1 2,5	–	4.1 1,2	–	20.0 6,2	8.1 2,5	20 800	20.000 508,0	#	22.5 6,9	#	16.0 4,9	100.0 30,5	33.0 10,1
139,7 mm	5.500 139,7	8.5 2,6	–	4.2 1,3	–	21.0 6,4	8.5 2,6	24 600	24.000 610,0	#	27.0 8,2	#	19.0 5,8	120.0 36,6	40.0 12,2
5 125	5.563 141,3	8.5 2,6	–	4.2 1,3	–	21.0 6,4	8.5 2,6	26 650	26.000 660,4	#	28.0 8,5	#	20.5 6,3	130.0 39,6	43.0 13,1
159,0 mm	6.250 159,0	9.4 2,9	–	4.9 1,5	–	25.0 7,6	9.6 2,9	30 750	30.000 762,0	#	34.0 10,4	#	24.0 7,3	150.0 45,7	50.0 15,2
165,1 mm	6.500 165,1	9.6 2,9	–	5.0 1,5	–	25.0 7,6	10.0 3,0	36 900	36.000 914,0	#	40.5 12,3	#	28.5 8,7	180.0 54,9	60.0 18,3
6 150	6.625 168,3	10.0 3,0	7.5 2,3	5.0 1,5	3.0 0,9	25.0 7,6	10.0 3,0	42 1050	42.000 1067,0	#	47.0 14,3	#	33.0 10,1	210.0 64,0	70.0 21,3

† The flow data listed is based upon the pressure drop of Schedule 40 pipe.
Contact Victaulic for details.

MATERIAL SPECIFICATIONS

Fitting: Ductile iron conforming to ASTM A-395, grade 65-45-15, and ASTM A-536, grade 65-45-12.

Or: 14 - 24" (350 - 600 mm), forged steel, conforming to ASTM A-234, Gr. WPB (0.375" wall)

Or: Segmentally welded steel as shown under nipples

Nipples: (adapter, swaged & hose)

❑ **¾ - 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

❑ **14 - 24" (350 - 600 mm):** Carbon steel, .375 wall, conforming to ASTM A-53, Type E or S, Gr. B

Flanged Adapter Nipples: (Nipple – see above)

❑ **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 Coatings: Orange enamel

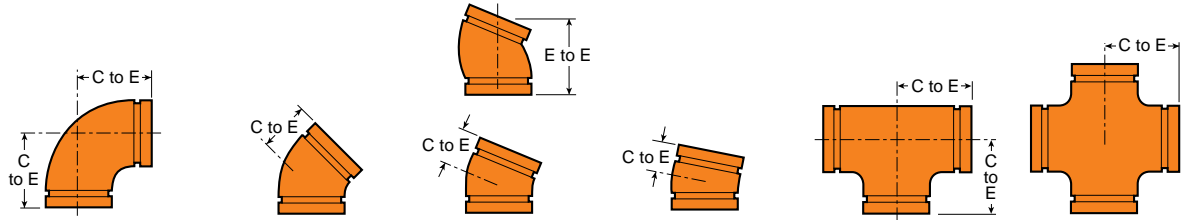
❑ **Optional:** Hot dip galvanized and others. Some fittings supplied electroplated as standard – see product specifications.

Flanged Adapter Nipple Coating: None (Unfinished)

❑ **Optional:** Orange enamel, hot dip galvanized and others.

Fittings

(Ductile iron)



Fitting Size		No. 10 90° Elbow			No. 11 45° Elbow			No. 12 22½° Elbow			No. 13 11¼° Elbow			No. 20 Tee		No. 35 Cross (sw)	
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to E Inches mm	Aprx. Wgt. Ea. Lbs. kg	C to E Inches mm	Aprx. Wgt. Ea. Lbs. kg	C to E Inches mm	Aprx. Wgt. Ea. Lbs. kg	C to E Inches mm	Aprx. Wgt. Ea. Lbs. kg	C to E Inches mm	Aprx. Wgt. Ea. Lbs. kg	C to E Inches mm	Aprx. Wgt. Ea. Lbs. kg	C to E Inches mm	Aprx. Wgt. Ea. Lbs. kg		
¾ 20	1.050 26.9	2.25 57	0.5 0.2	1.50 38	0.5 0.2	1.63 sw 41	–	1.38 sw 35	–	2.25 57	0.6 0.3	2.25 57	0.9 0.4	2.25 57	0.9 0.4		
1 25	1.315 33.7	2.25 57	0.6 0.3	1.75 44	0.6 0.3	3.25 @ 83	0.6 0.3	1.38 sw 35	0.3 0.1	2.25 57	1.0 0.5	2.25 57	1.3 0.6	2.25 57	1.3 0.6		
1¼ 32	1.660 42.4	2.75 70	1.0 0.5	1.75 44	0.9 0.4	1.75 44	0.8 0.4	1.38 sw 35	0.5 0.2	2.75 70	1.5 0.7	2.75 70	2.1 1.0	2.75 70	2.1 1.0		
1½ 40	1.900 48.3	2.75 70	1.2 0.5	1.75 44	0.9 0.4	1.75 44	0.8 0.4	1.38 sw 35	0.5 0.2	2.75 70	2.0 0.9	2.75 70	2.5 1.1	2.75 70	2.5 1.1		
2 50	2.375 60.3	3.25 83	1.8 0.8	2.00 51	1.3 0.6	3.75 @ 95	1.4 0.6	1.38 35	1.0 0.5	3.25 83	3.0 1.4	3.25 83	3.8 1.7	3.25 83	3.8 1.7		
2½ 65	2.875 73.0	3.75 95	3.2 1.5	2.25 57	2.2 1.0	4.00 @ 102	2.3 1.0	1.50 38	1.1 0.5	3.75 95	4.3 2.0	3.75 95	6.1 2.8	3.75 95	6.1 2.8		
76,1 mm	3.000 76,1	3.75 95	3.7 1,7	2.25 57	3.4 1,5	–	–	–	–	3.75 95	5.2 2,4	–	–	–	–		
3 80	3.500 88,9	4.25 108	4.5 2,0	2.50 64	3.1 1,4	4.50 @ 114	3.1 1,4	1.50 38	2.1 1,0	4.25 108	6.8 3,0	4.25 108	10.5 4,8	4.25 108	10.5 4,8		
3½ 90	4.000 101,6	4.50 114	5.6 2,5	2.75 70	4.3 2,0	2.50 sw 64	4.0 1,8	1.75 sw 44	2.7 1,2	4.50 sw 114	7.9 3,6	4.50 sw 114	11.5 5,2	4.50 114	11.5 5,2		
4 100	4.500 114,3	5.00 127	7.1 3,2	3.00 76	5.6 2,5	2.88 73	5.6 2,5	1.75 44	3.6 1,6	5.00 127	11.9 5,4	5.00 127	15.8 7,2	5.00 127	15.8 7,2		
108,0 mm	4.250 108,0	5.00 127	11.0 5,0	3.00 76	5.6 2,5	–	–	–	–	5.00 127	15.5 7,0	–	–	–	–		
4½ 120	5.000 127,0	5.25 sw 133	10.0 4,5	3.13 sw 79	6.0 2,7	3.50 89	6.6 3,0	1.88 sw 48	4.2 1,9	5.25 sw 133	15.0 6,8	5.25 sw 133	18.5 8,4	5.25 133	18.5 8,4		
5 125	5.563 141,3	5.50 140	11.7 5,3	3.25 83	8.3 3,8	2.88 sw 73	7.8 3,5	2.00 sw 51	5.0 2,2	5.50 140	17.8 8,1	5.50 140	20.0 9,1	5.50 140	20.0 9,1		
133,0 mm	5.250 133,0	5.50 140	11.7 5,3	3.25 83	8.3 3,8	–	–	–	–	5.50 140	17.8 8,1	–	–	–	–		
139,7 mm	5.500 139,7	5.50 140	11.7 5,3	3.25 83	8.3 3,8	–	–	–	–	5.50 140	17.8 8,1	–	–	–	–		
6 150	6.625 168,3	6.50 165	17.2 7,8	3.50 89	10.8 4,9	6.25 @ 159	12.2 5,5	2.00 51	7.0 3,2	6.50 165	25.7 11,7	6.50 165	28.0 12,7	6.50 165	28.0 12,7		
159,0 mm	6.250 159,0	6.50 165	18.6 8,4	3.50 89	10.8 4,9	–	–	–	–	6.50 165	27.1 12,3	–	–	–	–		
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	6.50 165	22.0 10,0	6.50 165	28.0 12,7	6.50 165	28.0 12,7		
8 200	8.625 219,1	7.75 197	29.9 13,6	4.25 108	20.4 9,3	7.75 @ 197	20.0 9,1	2.00 51	10.1 4,6	7.75 197	47.6 21,6	7.75 197	48.0 21,8	7.75 197	48.0 21,8		
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 sw 54	11.8 5,3	9.00 229	99.0 44,9	9.00 229	121.5 55,1	9.00 229	121.5 55,1		
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 sw 57	29.3 13,3	10.00 254	133.0 60,3	10.00 254	110.0 49,9	10.00 254	110.0 49,9		
14 # 350	14.000 355,6	21.00 533	164.0 74,4	8.75 222	82.0 37,2	5.00 sw 127	46.0 20,9	3.50 sw 89	32.0 14,5	11.00 sw 279	151.0 68,5	11.00 sw 279	198.0 89,8	11.00 sw 279	198.0 89,8		
16 # 400	16.000 406,4	24.00 610	210.0 95,3	10.00 254	100.0 45,4	5.00 sw 127	58.0 26,3	4.00 sw 102	42.0 19,1	12.00 sw 305	188.0 85,3	12.00 sw 305	250.0 113,4	12.00 sw 305	250.0 113,4		
18 # 450	18.000 457,0	27.00 686	273.0 123,8	11.25 286	135.0 61,2	5.50 sw 140	65.0 29,5	4.50 sw 114	53.2 24,1	15.50 sw 394	263.0 119,3	15.50 sw 394	350.0 158,8	15.50 sw 394	350.0 158,8		
20 # 500	20.000 508,0	30.00 762	343.0 155,6	12.50 318	174.0 78,9	6.00 sw 152	78.6 36,0	5.00 sw 127	65.0 29,5	17.25 sw 438	339.0 153,8	17.25 sw 438	452.0 205,0	17.25 sw 438	452.0 205,0		
24 # 550	24.000 610,0	36.00 914	516.0 234,1	15.00 381	251.0 113,9	7.00 sw 178	140.0 63,5	6.00 sw 152	60.0 27,2	20.00 sw 508	473.0 214,5	20.00 sw 508	795.0 360,6	20.00 sw 508	795.0 360,6		

14", 16", 18", 20", 24" (350 - 600 mm) elbows (90°, 45°) are 1½ D long radius forged steel elbows No. 100 and No. 110. See page 5.

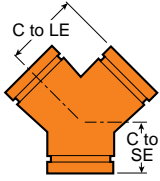
For 1D radius elbows contact Victaulic.

(sw) Segmentally welded steel

@ Gooseneck design, end-to-end dimension

No. 33

True Wye
(Segmentally welded steel)

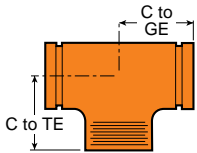


Fitting Size		Dimensions Inches/mm		Approx. Wgt. Ea. Lbs. kg
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to LE	C to SE	
1 25	1.315 33,7	2.25 57	2.25 57	1.1 0,5
1¼ 32	1.660 42,4	2.75 70	2.50 64	1.5 0,7
1½ 40	1.900 48,3	2.75 70	2.75 70	1.8 0,8
2 50	2.375 60,3	3.25 83	2.75 70	2.5 1,1
2½ 65	2.875 73,0	3.75 95	3.00 76	4.3 2,0
3 80	3.500 88,9	4.25 108	3.25 83	6.1 2,8
3½ 90	4.000 101,6	4.50 114	3.50 89	9.6 4,4
4 100	4.500 114,3	5.00 127	3.75 95	10.0 4,5
5 125	5.563 141,3	5.50 140	4.00 102	15.0 6,8

Fitting Size		Dimensions Inches/mm		Approx. Wgt. Ea. Lbs. kg
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to LE	C to SE	
6 150	6.625 168,3	6.50 165	4.50 114	22.3 10,1
8 200	8.625 219,1	7.75 197	6.00 152	36.0 16,3
10 250	10.750 273,0	9.00 229	6.50 155	69.9 31,7
12 300	12.750 323,9	10.00 254	7.00 178	80.0 36,3
14 350	14.000 355,6	11.00 279	7.50 191	134.2 60,8
16 400	16.000 406,4	12.00 305	8.00 203	167.0 75,7
18 450	18.000 457,0	15.50 394	8.50 216	234.0 106,1
20 500	20.000 508,0	17.25 438	9.00 229	281.0 127,5
24 600	24.000 610,0	20.00 508	10.00 254	523.0 237,2

No. 29M

Tee with
Threaded Branch
(Ductile Iron)



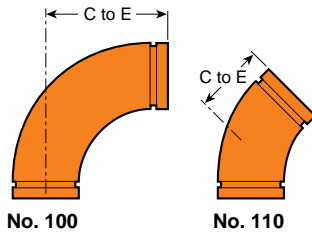
Fitting Size		Dimensions Inches/mm		Approx. Wgt. Ea. Lbs. kg
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to GE	C to TE	
¾ 20	1.050 26,9	2.25 57	2.25 57	0.6 0,3
1 25	1.315 33,7	2.25 57	2.25 57	1.0 0,5
1¼ 32	1.660 42,4	2.75 70	2.75 70	1.5 0,7
1½ 40	1.900 48,3	2.75 70	2.75 70	2.0 0,9
2 50	2.375 60,3	3.25 83	4.25 108	3.0 1,4
2½ 65	2.875 73,0	3.75 95	3.75 95	4.3 2,0
76,1 mm	3.000 76,1	3.75 95	3.75 95	5.2 2,4
3 80	3.500 88,9	4.25 108	6.00 152	6.8 3,1
3½ 90	4.000 101,6	4.50 114	4.50 114	7.9 sw 3,6
4 100	4.500 114,3	5.00 127	7.25 184	11.9 5,4
108,0 mm	4.250 108,0	5.00 127	5.00 127	15.5 7,0

(sw) Segmentally welded steel.

Fitting Size		Dimensions Inches/mm		Approx. Wgt. Ea. Lbs. kg
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to GE	C to TE	
4½ 120	5.000 127,0	5.25 133	5.25 133	15.0 sw 6,8
5 125	5.563 141,3	5.50 140	5.50 140	17.8 sw 8,1
133,0 mm	5.250 133,0	5.50 140	5.50 140	17.8 8,1
139,7 mm	5.500 139,7	5.50 140	5.50 140	17.8 8,1
6 150	6.625 168,3	6.50 165	6.50 165	25.7 sw 11,7
159,0 mm	6.250 159,0	6.50 165	6.50 165	27.1 12,3
165,1 mm	6.500 165,1	6.50 165	6.50 165	22.0 10,0
8 200	8.625 219,1	7.75 197	7.75 197	47.6 sw 21,6
10 250	10.750 273,0	9.00 229	9.00 229	73.0 33,1
12 300	12.750 323,9	10.00 254	10.00 254	99.0 44,9

No. 100 and No. 110

Long Radius Elbows
1½ D



Fitting Size		No. 100 – 90°		No. 110 – 45°	
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to E Inches mm	Aprx. Wgt. Each Lbs./kg	C to E Inches mm	Aprx. Wgt. Each Lbs./kg
2 50	2.375 60,3	4.38 111	2.5 1,1	2.75 70	1.8 0,8
2½ 65	2.875 73,0	5.00 127	4.1 1,9	3.00 76	2.8 1,3
3 80	3.500 88,9	5.88 149	6.0 2,7	3.38 86	4.9 2,2
4 100	4.500 114,3	7.50 191	12.3 5,6	4.00 102	7.3 3,3
5 125	5.563 141,3	+ +	18.2 8,3	+ +	14.8 6,7
6 150	6.625 168,3	10.75 273	30.4 13,8	5.50 140	17.4 7,9
165,1 mm	6.500 165,1	10.75 273	29.0 13,2	5.50 140	19.0 8,6
8 200	8.625 219,1	14.25 362	66.0 30,0	7.25 184	36.0 16,3

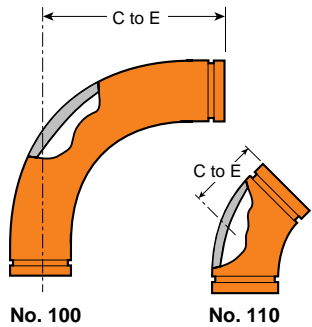
Fitting Size		No. 100 – 90°		No. 110 – 45°	
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to E Inches mm	Aprx. Wgt. Each Lbs./kg	C to E Inches mm	Aprx. Wgt. Each Lbs./kg
10 250	10.750 273,0	15.00 381	107.0 48,5	6.25 159	57.0 25,9
12 300	12.750 323,9	18.00 457	156.0 70,8	7.50 191	90.0 40,8
14 350	14.000 355,6	21.00 s 533	164.0 74,4	8.75 s 222	82.0 37,2
16 400	16.000 406,4	24.00 s 610	210.0 95,3	10.00 s 254	100.0 45,4
18 450	18.000 457,0	27.00 s 686	273.0 123,8	11.25 s 286	135.0 61,2
20 500	20.000 508,0	30.00 s 762	343.0 155,6	12.50 s 318	174.0 78,9
24 600	24.000 610,0	36.00 s 914	516.0 234,1	15.00 s 381	251.0 113,9

Ductile iron except those marked (s) which are steel.

NOTE: Fittings size 26 - 48" are available roll grooved for installation with Style 770 Large Diameter couplings. Contact Victaulic for details.

No. 100 and No. 110

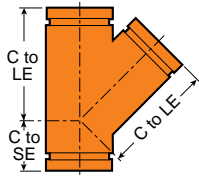
Long Radius Elbows
3D
(With added wall thickness at bend for abrasive service)



Fitting Size		Wall Thickness Inches/millimeters			90° Elbow No. 100 – 3D		45° Elbow No. 110 – 3D	
Nominal Dia. In./mm	Actual Outside Dia. In./mm	In Non-critical Area	At Back Wear Area	Extra	C to E Inches mm	Aprx. Weight Each Lbs./kg	C to E Inches mm	Aprx. Weight Each Lbs./kg
2 50	2.375 60,3	0.184 4,67	0.309 7,85	0.125 3,18	10.00 254	5.0 2,3	6.50 165	4.7 2,1
3 80	3.500 88,9	0.246 6,25	0.371 9,42	0.125 3,18	13.00 330	16.0 7,3	7.75 197	10.4 4,7
4 100	4.500 114,3	0.267 6,78	0.455 11,56	0.188 4,78	16.00 406	25.5 11,6	9.00 229	17.2 7,8
6 150	6.625 168,3	0.310 7,87	0.560 14,22	0.250 6,35	24.00 610	70.0 31,8	13.50 343	45.0 20,4

No. 30 45° Lateral

(Segmentally welded steel)



Fitting Size		Dimensions Inches/mm		Approx. Wgt. Ea. Lbs. kg
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to LE	C to SE	
¾ 20	1.050 26,9	4.50 114	2.00 51	1.0 0,5
1 25	1.315 33,7	5.00 127	2.25 57	1.7 0,8
1¼ 32	1.660 42,4	5.75 146	2.50 64	2.5 d 1,1
1½ 40	1.900 48,3	6.25 159	2.75 70	3.5 1,6
2 50	2.375 60,3	7.00 178	2.75 70	4.6 d 2,1
2½ 65	2.875 73,0	7.75 197	3.00 76	9.0 4,1
76,1 mm	3.000 76,1	8.50 216	3.25 83	11.0 5,0
3 80	3.500 88,9	8.50 216	3.25 83	11.7 d 5,4
3½ 90	4.000 101,6	10.00 254	3.50 89	17.8 8,1
4 100	4.500 114,3	10.50 267	3.75 95	22.2 d 10,1
5 125	5.563 141,3	12.50 318	4.00 102	21.8 9,9

(d) Ductile iron.

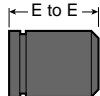
Fitting Size		Dimensions Inches/mm		Approx. Wgt. Ea. Lbs. kg
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to LE	C to SE	
6 150	6.625 168,3	14.00 356	4.50 114	43.6 19,8
165,1 mm	6.500 165,1	14.00 356	4.50 114	43.6 19,8
8 200	8.625 219,1	18.00 457	6.00 152	72.0 32,7
10 250	10.750 273,0	20.50 521	6.50 165	105.0 47,6
12 300	12.750 323,9	23.00 584	7.00 178	165.0 74,8
14 350	14.000 355,6	26.50 673	7.50 191	276.0 125,2
16 400	16.000 406,4	29.00 737	8.00 203	344.2 156,1
18 450	18.000 457,0	32.00 813	8.50 216	429.0 194,6
20 500	20.000 508,0	35.00 889	9.00 229	500.0 226,8
24 600	24.000 610,0	40.00 1016	10.00 254	715.0 324,3

No. 60 Cap No. 40, 42, 43 Nipple

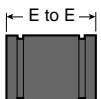
(Steel)



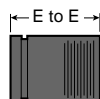
No. 60



No. 42
Grv. X Bev.



No. 43
Grv. X Grv.



No. 40
Grv. X Thd.

Fitting Size		No. 60 Cap*		No. 40, 42, 43 # Nipple (Steel)	
Nominal Dia. In./mm	Actual Outside Dia. In./mm	Thick. T Inches mm	Aprx. Wgt. Ea. Lbs./kg	E to E Inches mm	Aprx. Wgt. Ea. Lbs./kg
¾ 20	1.050 26,9	0.88 22	0.2 0,1	3.00 76	0.3 0,1
1 25	1.315 33,7	0.88 22	0.3 0,1	3.00 76	0.4 0,2
1¼ 32	1.660 42,4	0.88 22	0.3 0,1	4.00 102	0.8 0,4
1½ 40	1.900 48,3	0.88 22	0.5 0,2	4.00 102	0.9 0,4
2 50	2.375 60,3	0.88 22	0.6 0,3	4.00 102	1.2 0,5
2½ 65	2.875 73,0	0.88 22	1.0 0,5	4.00 102	1.9 0,9
76,1 mm	3.000 76,1	0.88 22	1.2 0,5	-	-
3 80	3.500 88,9	0.88 22	1.2 0,5	4.00 102	2.5 1,1
3½ 90	4.000 101,6	0.88 22	2.5 1,1	4.00 102	2.1 0,9
4 100	4.500 114,3	1.00 25	2.5 1,1	6.00 152	5.5 2,5
108,0 mm	4.250 108,0	1.00 25	2.3 1,0	-	-
4½ 120	5.000 127,0	1.00 25	2.5 1,1	-	-
5 125	5.563 141,3	1.00 25	4.6 2,1	6.00 152	7.4 3,4

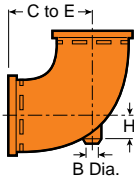
Fitting Size		No. 60 Cap*		No. 40, 42, 43 # Nipple (Steel)	
Nominal Dia. In./mm	Actual Outside Dia. In./mm	Thick. T Inches mm	Aprx. Wgt. Ea. Lbs./kg	E to E Inches mm	Aprx. Wgt. Ea. Lbs./kg
133,0 mm	5.250 133,0	1.00 25	4.5 2,0	-	-
139,7 mm	5.500 139,7	1.00 25	4.5 2,0	-	-
6 150	6.625 168,3	1.00 25	6.1 2,8	6.00 152	9.5 4,3
159,0 mm	6.250 159,0	1.00 25	6.8 3,1	-	-
165,1 mm	6.500 165,1	1.00 25	7.3 3,3	-	-
8 200	8.625 219,1	1.19 30	13.1 5,9	6.00 152	14.2 6,4
10 250	10.750 273,0	1.25 32	21.0 9,5	8.00 203	27.0 12,2
12 300	12.750 323,9	1.25 32	35.6 16,2	8.00 203	33.0 15,0
14 350	14.000 355,6	9.50 241	*	-	-
16 400	16.000 406,4	10.00 254	*	-	-
18 450	18.000 457,0	11.00 279	*	-	-
20 500	20.000 508,0	12.00 305	*	-	-
24 600	24.000 610,0	*	*	-	-

For Pump Package Nipples with 1½" (40 mm) hole cut to receive Style 923 Vic-Let™ or Style 924 Vic-O-Well™ request special No. 40, 42 or 43 nipple prices and request No. 40-H, 42-H or 43-H on order. NOTE: 4" - 12" (100 - 300 mm) diameter - 8" (200 mm) minimum length required.

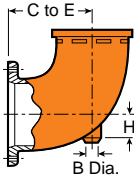
@ Available with British Standard Pipe Threads, specify "BSP" clearly on order.

* Steel dish caps available through 24" (600 mm), contact Victaulic. No. 60 cap is not suitable for use in vacuum service with Style 72 or 750 couplings. No. 61 Bull Plugs should be used.

No. R-10 Reducing Base Support Elbows (Ductile Iron)



Grooved X Grooved (G X G)



Grooved X Flanged (G X F)

Nominal Size Inches/mm	Dimensions Inches/millimeters			Approx. Wgt. Ea. Lbs./kg	
	C to E	H	B Dia.	G X G	G X F
6 X 4 150 X 100	9.00 229	1.25 32	1.50 38	19.0 8,6	33.0 15,0
X 5 X 125	9.00 229	1.50 38	1.50 38	23.0 10,4	38.0 17,2
8 X 6 200 X 150	10.50 267	2.13 54	1.50 38	33.0 15,0	52.0 23,6
10 X 8 250 X 200	12.00 305	2.40 61	1.50 38	61.0 27,7	88.0 39,9

No. 41-ANSI 125 (Cast Iron)

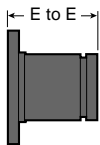
No. 45F-ANSI 150 Flat Face (Steel)

No. 45R-ANSI 150 Raised Face (Steel)

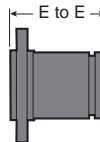
No. 46F-ANSI 300 Flat Face (Steel)

No. 46R-ANSI 300 Raised Face (Steel)

Flanged Adapter Nipples



Flat Face



Raised Face

Fitting Size		Length E to E Inches mm	Approx. Weight Each Lbs./kg		
Nominal Dia. In./mm	Actual Outside Dia. In./mm		No. 41 ANSI 125	No. 45 ANSI 150	No. 46 ANSI 300
¾ 20	1.050 26,9	3 76	- -	2.3 1,0	3.3 1,5
1 25	1.315 33,7	3 76	2.5 1,1	2.7 1,2	3.9 1,8
1¼ 32	1.660 42,4	4 102	3.0 1,4	3.3 1,5	4.8 2,2
1½ 40	1.900 48,3	4 102	3.5 1,6	3.9 1,8	6.9 3,1
2 50	2.375 60,3	4 102	5.5 2,5	6.2 2,8	8.2 3,7
2½ 65	2.875 73,0	4 102	8.0 3,6	9.9 4,5	11.9 5,4
3 80	3.500 88,9	4 102	9.5 4,3	11.4 5,2	16.5 7,5
3½ 90	4.000 101,6	4 102	12.0 5,4	15.1 6,8	20.1 9,1
4 100	4.500 114,3	6 152	16.7 7,6	18.4 8,3	27.4 12,4
5 125	5.563 141,3	6 152	21.5 9,8	21.3 9,7	35.3 16,0

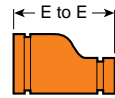
+ Contact Victaulic for details.

NOTE: Flanged adapter nipples are supplied with standard rolled grooves. Standard cut grooves or machining for rubber lining are optionally available. Contact Victaulic for details.

Fitting Size		Length E to E Inches mm	Approx. Weight Each Lbs./kg		
Nominal Dia. In./mm	Actual Outside Dia. In./mm		No. 41 ANSI 125	No. 45 ANSI 150	No. 46 ANSI 300
6 150	6.625 168,3	6 152	26.5 12,0	27.5 12,5	47.5 21,5
8 200	8.625 219,1	6 152	39.0 17,7	41.3 18,8	70.3 31,9
10 250	10.750 273,0	8 203	57.0 25,9	59.8 27,1	100.8 45,7
12 300	12.750 323,9	8 203	41.0 18,6	88.2 40,0	146.2 66,3
14 350	14.000 355,6	8 203	-	+	+
16 400	16.000 406,4	8 203	-	+	+
18 450	18.000 457,0	8 203	-	+	+
20 500	20.000 508,0	8 203	-	+	+
24 600	24.000 610,0	8 203	-	+	+

Concentric/Eccentric Reducers

Steel (except as noted)



Nominal Size Inches/mm	No. 50		No. 51	
	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg
1¼ X ¾ 32 X 20	+ +	1.9 0.9	- -	- -
X 1 X 25	+ +	1.9 0.9	- -	- -
1½ X ¾ 40 X 20	+ +	1.4 0.6	- -	- -
X 1 X 25	2.50* d 64	0.8 0.4	8.50 216	4.5 2.0
X 1¼ X 32	2.50* d 64	1.0 0.5	- -	- -
2 X ¾ 50 X 20	2.50* d 64	0.9 0.3	9.00 229	2.0 0.9
X 1 X 25	2.50* d 64	0.7 0.3	9.00 229	2.3 1.0
X 1¼ X 32	2.50* d 64	1.2 0.5	9.00 229	4.6 2.1
X 1½ X 40	2.50* d 64	1.0 0.5	9.00 229	4.6 2.1
2½ X ¾ 65 X 20	+ +	1.3 0.6	+ +	3.3 1.5
X 1 X 25	9.50 241	3.6 1.5	9.50 241	3.5 1.6
X 1¼ X 32	2.50* d 64	3.3 1.5	9.50 241	+ +
X 1½ X 40	2.50* d 64	3.6 1.6	9.50 241	3.7 1.7
X 2 X 50	2.50 d 64	3.9 1.8	9.50 241	4.3 2.0
3 X ¾ 80 X 20	+ +	1.5 0.7	+ +	4.5 2.0
X 1 X 25	2.50* d 64	1.3 0.6	9.50 241	4.8 2.2
X 1¼ X 32	+ +	3.0 1.4	+ +	4.8 2.2
X 1½ X 40	2.50* d 64	5.1 2.3	9.50 241	5.1 2.3
X 2 X 50	2.50* d 64	1.6 0.7	3.50 d 89	6.0 2.7
X 2½ X 65	2.50* d 64	1.8 0.8	3.50 d 89	7.0 3.2
X 76,1 mm	2.50 d 64	2.1 1.0	- -	- -
3½ X 3 90 X 80	2.50 d 64	2.0 0.9	9.50 241	7.0 3.2
4 X 1 100 X 25	3.00* d 76	3.0 1.4	10.00 254	6.5 2.9
X 1¼ X 32	+ +	4.6 2.1	- -	- -
X 1½ X 40	10.00 254	6.9 3.1	10.00 254	8.1 3.7
X 2 X 50	3.00* d 76	2.4 1.1	4.00 d 102	3.3 1.5
X 2½ X 65	3.00* d 76	2.7 1.2	4.00 d 102	3.4 1.5
X 3 X 80	3.00* d 76	3.2 1.4	4.00 d 102	3.5 1.6
X 3½ X 90	3.00 d 76	2.9 1.3	10.00 254	8.0 3.6
5 X 2 125 X 50	4.00 102	9.0 4.1	11.00 279	5.2 2.4
X 2½ X 65	11.00 279	11.0 5.0	11.00 279	10.8 4.9
X 3 X 80	4.00 d 102	5.5 2.5	11.00 279	11.1 5.0
X 4 X 100	3.50 d 89	4.3 1.9	5.00 d 127	12.0 5.4

Nominal Size Inches/mm	No. 50		No. 51	
	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg
6 X 1 150 X 25	4.00* d 102	5.0 2.3	11.50 292	14.5 6.6
X 1½ X 40	+ +	5.5 2.5	+ +	+ +
X 2 X 50	4.00* d 102	6.6 3.0	11.50 292	14.5 6.6
X 2½ X 65	4.00* d 102	6.4 2.9	11.50 292	14.2 6.4
X 3 X 80	4.00* d 102	6.4 2.9	5.50 d 140	15.0 6.8
X 4 X 100	4.00 d 102	6.5 2.9	5.50 d 140	17.0 7.7
X 5 X 125	4.00 d 102	6.4 2.9	5.50 d 140	17.0 7.7
8 X 2½ 200 X 65	16.00* 406	7.9 3.6	12.00 305	26.1 11.8
X 3 X 80	5.00 d 127	9.3 4.2	12.00 305	22.0 10.0
X 4 X 100	5.00 d 127	10.4 4.8	12.00 305	23.0 10.4
X 5 X 125	5.00 d 127	11.6 5.2	12.00 305	23.0 10.4
X 6 X 150	5.00 d 127	11.9 5.4	6.00 d 152	24.0 10.9
10 X 4 250 X 100	6.00 d 152	19.7 8.9	13.00 330	32.0 14.5
X 5 X 125	+ +	34.3 15.6	+ +	34.6 15.7
X 6 X 150	6.00 d 152	20.0 9.1	13.00 330	36.9 16.7
X 8 X 200	6.00 d 152	22.0 10.0	7.0 d 178	21.6 9.8
12 X 4 300 X 100	+ +	44.0 20.0	14.00 356	48.0 21.8
X 6 X 150	7.00 d 178	24.6 11.2	14.00 356	50.0 22.7
X 8 X 200	7.00 d 178	52.0 23.6	14.00 356	53.5 24.3
X 10 X 250	7.00 d 178	39.0 17.7	14.00 356	57.0 25.9
14 X 6 350 X 150	13.00 330	65.0 29.5	13.00 330	60.0 27.2
X 8 X 200	13.00 330	65.0 29.5	13.00 330	60.0 27.2
X 10 X 250	13.00 330	66.0 29.9	13.00 330	65.0 29.5
X 12 X 300	13.00 330	68.0 30.8	13.00 330	66.0 29.9
16 X 8 400 X 200	14.00 356	73.0 33.1	14.00 355	73.0 33.1
X 10 X 250	14.00 356	73.0 33.1	14.00 355	73.0 33.1
X 12 X 300	14.00 356	73.0 33.1	14.00 355	73.0 33.1
X 14 X 350	14.00 356	73.0 33.1	14.00 355	73.0 33.1
18 X 10 450 X 250	15.00 381	91.0 41.3	15.00 381	91.0 41.3
X 12 X 300	15.00 381	91.0 41.3	15.00 381	91.0 41.3
X 14 X 350	15.00 381	91.0 41.3	15.00 381	91.0 41.3
X 16 X 400	15.00 381	91.0 41.3	15.00 381	91.0 41.3

Table continued on page 9.

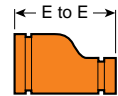
(d) Ductile iron + Contact Victaulic for details.

*Available with male threaded small end No. 52.

@ Steel eccentric reducers available through 30" (750 mm), contact Victaulic for dimensions.

Concentric/Eccentric Reducers

Steel (except as noted)

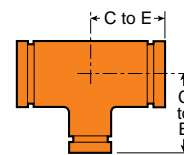


Nominal Size Inches/mm	No. 50		No. 51	
	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg
20 X 10 500 X 250	20.00 508	110.0 49,9	20.00 508	177.0 80,3
X 12 X 300	20.00 508	120.0 54,4	20.00 508	120.0 54,4
X 14 X 350	20.00 508	149.0 67,9	20.00 508	149.0 67,9
X 16 X 400	20.00 508	120.0 54,4	20.00 508	120.0 54,4
X 18 X 450	20.00 508	136.0 61,7	20.00 508	136.0 61,7
24 X 10 600 X 250	20.00 508	142.0 64,4	20.00 508	142.0 64,4

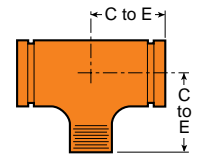
Nominal Size Inches/mm	No. 50		No. 51	
	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg	E to E Inches mm	Approx. Wgt. Ea. Lbs. kg
24 X 12 600 X 300	20.00 508	150.0 68,0	20.00 508	150.0 68,0
X 14 X 350	20.00 508	162.0 73,5	20.00 508	162.0 73,5
X 16 X 400	20.00 508	162.0 73,5	20.00 508	162.0 73,5
X 18 X 450	20.00 508	162.0 73,5	20.00 508	162.0 73,5
X 20 X 500	20.00 508	151.0 68,5	20.00 508	190.0 86,2

No. 25 and No. 29 Reducing Tees

(Segmentally welded steel)



No. 25



No. 29

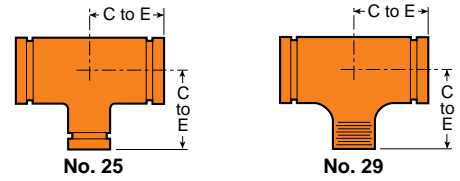
Nominal Size Inches/mm	No. 25 Std. C to E Inches/mm	No. 29 w/Thd. Branch C to E Inches/mm	Aprx. Wgt. Ea. Lbs./kg
1 X 1 X 3/4 25 X 25 X 20	+	+	1.0 0,5
1 1/4 X 1 1/4 X 1 32 X 32 X 25	+	+	1.3 0,6
1 1/2 X 1 1/2 X 3/4 40 X 40 X 20	+	+	1.5 0,7
X 1 X 25	+	+	1.5 0,7
X 1 1/4 X 32	+	+	1.7 0,8
2 X 2 X 3/4 50 X 50 X 20	3.25 d 83	3.25 d 83	2.5 1,1
X 1 X 25	3.25 d 83	3.25 d 83	2.7 1,2
X 1 1/4 X 32	+	+	1.8 0,8
X 1 1/2 X 40	3.25 d 83	3.25 83	3.0 1,4
2 1/2 X 2 1/2 X 3/4 65 X 65 X 20	+	+	3.9 1,8
X 1 X 25	3.75 d 95	3.75 95	3.8 1,7
X 1 1/4 X 32	+	+	4.2 1,9
X 1 1/2 X 40	3.75 d 95	3.75 d 95	3.9 1,8
X 2 X 50	3.75 d 95	3.75 95	4.5 2,0
3 X 3 X 3/4 80 X 80 X 20	+	+	5.7 2,6
X 1 X 25	4.25 d 108	4.25 d 108	6.1 2,8
X 1 1/4 X 32	+	+	8.0 3,6
X 1 1/2 X 40	4.25 d 108	4.25 108	6.5 2,9
X 2 X 50	4.25 d 108	4.25 108	6.2 2,8
X 2 1/2 X 65	4.25 d 108	4.25 108	6.4 2,9

Nominal Size Inches/mm	No. 25 Std. C to E Inches/mm	No. 29 w/Thd. Branch C to E Inches/mm	Aprx. Wgt. Ea. Lbs./kg
4 X 4 X 3/4 100 X 100 X 20	+	+	8.0 3,6
X 1 X 25	5.00 d 127	5.00 d 127	7.8 3,5
X 1 1/4 X 32	+	+	9.6 4,4
X 1 1/2 X 40	5.00 d 127	5.00 d 127	10.2 4,6
X 2 X 50	5.00 d 127	5.00 d 127	11.2 5,1
X 2 1/2 X 65	5.00 d 127	5.00 d 127	11.4 5,2
X 3 X 80	5.00 d 127	5.00 d 127	11.6 5,3
5 X 5 X 1 125 X 125 X 25	+	+	14.0 6,4
X 1 1/2 X 40	+	+	14.3 6,5
X 2 X 50	5.50 140	5.50 140	14.5 6,6
X 2 1/2 X 65	5.50 d 140	5.50 d 140	15.2 6,9
X 3 X 80	5.50 d 140	5.50 140	16.6 7,5
X 4 X 100	5.50 d 140	5.50 140	16.7 7,6
6 X 6 X 1 150 X 150 X 25	+	+	23.0 10,4
X 1 1/2 X 40	+	+	24.0 10,9
X 2 X 50	6.50 d 165	6.50 d 165	21.6 9,8
X 2 1/2 X 65	6.50 d 165	6.50 d 165	21.4 11,7
X 3 X 80	6.50 d 165	6.50 d 165	26.5 12,0
X 4 X 100	6.50 d 165	6.50 d 165	25.0 11,3
X 5 X 125	6.50 d 165	6.50 d 165	23.2 10,5

Table continued on page 10.

No. 25 and No. 29 Reducing Tees

(Segmentally welded steel)



Nominal Size Inches/mm	No. 25 Std. C to E Inches/mm	No. 29 w/Thd. Branch C to E Inches/mm	Aprx. Wgt. Ea. Lbs/kg
6½ X 6½ X 3 165,1 X 165,1 X 80	6.50 d 165	6.50 165	24.0 10,9
X 4 X 100	6.50 d 165	6.50 165	25.0 11,3
8 X 8 X 1½ 200 X 200 X 40	+ +	+ +	33.0 15,0
X 2 X 50	7.75 197	7.75 197	33.5 15,2
X 2½ X 65	+ +	+ +	39.0 17,7
X 3 X 80	7.75 197	7.75 197	33.6 15,2
X 4 X 100	7.75 d 197	7.75 d 197	41.8 19,0
X 5 X 125	7.75 197	7.75 197	34.0 15,4
X 6 X 150	7.75 d 197	7.75 d 197	42.3 19,2
X 165,1 mm	7.75 197	7.75 197	48.0 21,8
10 X 10 X 1½ 250 X 250 X 40	+ +	+ +	62.0 28,1
X 2 X 50	9.00 229	9.00 229	62.0 28,1
X 2½ X 65	+ +	+ +	62.4 28,3
X 3 X 80	+ 229	+ 229	60.0 27,2
X 4 X 100	9.00 229	9.00 229	61.0 27,7
X 5 X 125	9.00 229	9.00 229	52.0 23,6
X 6 X 150	9.00 229	9.00 229	59.0 26,8
X 8 X 200	9.00 229	9.00 229	64.7 29,3
12 X 12 X 1 300 X 300 X 25	+ +	+ +	77.0 34,9
X 2 X 50	+ +	+ +	80.0 36,3
X 2½ X 65	+ +	+ +	78.0 35,4
X 3 X 80	10.00 254	10.00 254	82.0 37,2
X 4 X 100	10.00 254	10.00 254	80.0 36,3
X 5 X 125	10.00 254	10.00 254	75.0 34,0
X 6 X 150	10.00 254	10.00 254	75.0 34,0
X 8 X 200	10.00 254	10.00 254	80.0 36,3
X 10 X 250	10.00 254	10.00 254	84.0 38,1
14 X 14 X 4 350 X 350 X 100	+ +	+ +	102.0 46,3
X 6 X 150	+ +	+ +	108.2 49,1
X 8 X 200	11.00 279	11.00 279	112.0 50,8

Nominal Size Inches/mm	No. 25 Std. C to E Inches/mm	No. 29 w/Thd. Branch C to E Inches/mm	Aprx. Wgt. Ea. Lbs/kg
14 X 14 X 10 350 X 350 X 250	11.00 279	11.00 279	120.0 54,4
X 12 X 300	11.00 279	11.00 279	129.1 58,6
16 X 16 X 4 400 X 400 X 100	+ +	+ +	130.0 59,0
X 6 X 150	+ +	+ +	133.5 60,6
X 8 X 200	12.00 305	12.00 305	145.0 65,8
X 10 X 250	12.00 305	12.00 305	149.5 67,8
X 12 X 300	12.00 305	12.00 305	154.0 69,9
X 14 X 350	+ +	+ +	167.0 75,8
18 X 18 X 4 450 X 450 X 100	+ +	+ +	194.0 88,0
X 6 X 150	+ +	+ +	200.0 90,7
X 8 X 200	+ +	+ +	202.0 91,6
X 10 X 250	15.50 394	15.50 394	212.0 96,2
X 12 X 300	15.50 394	15.50 394	222.6 101,0
X 14 X 350	15.50 394	- -	230.1 104,4
X 16 X 400	15.50 394	- -	247.6 112,3
20 X 20 X 6 500 X 500 X 150	+ +	+ +	240.0 108,9
X 8 X 200	+ +	+ +	244.0 110,7
X 10 X 250	+ +	+ +	256.0 116,1
X 12 X 300	+ +	+ +	264.0 119,8
X 14 X 350	17.25 438	- -	275.0 124,7
X 16 X 400	17.25 438	- -	288.6 130,9
X 18 X 450	17.25 438	- -	297.0 134,7
24 X 24 X 8 600 X 600 X 200	20.00 508	20.00 508	340.0 154,2
X 10 X 250	20.00 508	20.00 508	343.9 156,0
X 12 X 300	20.00 508	20.00 508	352.8 160,0
X 14 X 350	20.00 508	- -	360.0 163,3
X 16 X 400	20.00 508	- -	378.0 171,5
X 18 X 450	20.00 508	- -	380.0 172,4
X 20 X 500	20.00 508	- -	373.0 169,2

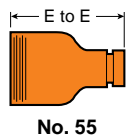
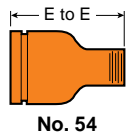
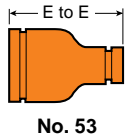
(d) Ductile iron. + Contact Victaulic for details.
 No. 29 Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

No. 52 Reducer Threaded Small (Ductile Iron)

Nominal Size Inches/mm	E to E In. mm	Aprx. Wgt. Ea. Lbs./kg	Nominal Size Inches/mm	E to E In. mm	Aprx. Wgt. Ea. Lbs./kg	Nominal Size Inches/mm	E to E In. mm	Aprx. Wgt. Ea. Lbs./kg
1½ X 1 40 X 25	2.50 64	0.8 0,4	3 X ¾ 80 X 20	+ +	1.5 s 0,7	5 X 4 125 X 100	+ +	4.5 2,0
X 1¼ X 32	2.50 64	0.9 0,4	X 1 X 25	2.50 64	1.3 0,6	6 X 1 150 X 25	4.00 102	5.5 2,5
2 X ¾ 50 X 20	2.50 64	0.9 0,4	X 1½ X 40	2.50 64	1.5 s 0,7	X 2 X 50	4.00 102	5.7 2,6
X 1 X 25	2.50 64	0.7 0,3	3 X 2 80 X 50	2.50 64	1.5 0,7	X 2½ X 65	4.00 102	5.8 2,6
X 1¼ X 32	2.50 64	1.2 0,5	X 2½ X 65	2.50 64	2.4 1,1	X 3 X 80	4.00 102	5.8 2,6
X 1½ X 40	2.50 64	1.0 0,5	4 X 1 100 X 25	3.00 76	2.3 1,0	X 4 X 100	+ +	6.5 s 2,9
2½ X 1 65 X 25	+ +	1.0 s 0,5	X 1½ X 40	+ +	2.5 s 1,1	X 5 X 125	+ +	2.0 s 0,9
X 1¼ X 32	2.50 64	1.2 s 0,5	X 2 X 50	3.00 76	2.6 1,2	8 X 2 200 X 50	16.00 406	1.5 0,7
X 1½ X 40	2.50 64	1.3 s 0,6	X 2½ X 65	3.00 76	2.6 1,2	X 2½ X 65	16.00 406	1.7 0,8
X 2 X 50	3.00 76	1.4 0,6	X 3 X 80	3.00 76	2.5 1,1			

(s) Steel. + Contact Victaulic for details.
Available with British Standard Pipe Threads, specify "BSP" clearly on order.

No. 53, 54 & 55 Swaged Nipples (Steel)



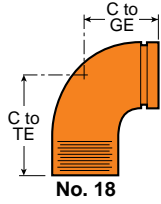
Nominal Size Inches/mm	E to E Inches mm	Approx. Weight Each Lbs. kg
2 X 1 50 X 25	6.50 165	2.0 0,9
X 1¼ X 32	6.50 165	2.0 0,9
X 1½ X 40	6.50 165	2.0 0,9
2½ X 1 65 X 25	7.00 178	3.0 1,4
X 1¼ X 32	7.00 178	3.0 1,4
X 1½ X 40	7.00 178	3.0 1,4
X 2 X 50	7.00 178	3.0 1,4
3 X 1 80 X 25	8.00 203	4.5 2,0
X 1¼ X 32	8.00 203	4.5 2,0
X 1½ X 40	8.00 203	4.4 2,0
X 2 X 50	8.00 203	4.5 2,0
X 2½ X 65	8.00 203	4.5 2,0
3½ X 3 90 X 80	8.00 203	6.8 3,1
4 X 1 100 X 25	9.00 229	7.5 3,4
X 1¼ X 32	9.00 229	7.5 3,4
X 1½ X 40	9.00 229	7.5 3,4
X 2 X 50	9.00 229	7.5 3,4

Nominal Size Inches/mm	E to E Inches mm	Approx. Weight Each Lbs. kg
4 X 2½ 100 X 65	9.00 229	7.5 3,4
X 3 X 80	9.00 229	7.5 3,4
X 3½ X 90	9.00 229	7.5 3,4
5 X 2 125 X 50	11.00 279	11.5 5,2
X 3 X 80	11.00 279	11.3 5,1
X 4 X 100	11.00 279	11.5 5,2
6 X 1 150 X 25	12.00 305	17.0 7,7
X 1¼ X 32	12.00 305	17.0 7,7
X 1½ X 40	12.00 305	17.2 7,8
X 2 X 50	12.00 305	17.4 7,9
X 2½ X 65	12.00 305	17.4 7,9
X 3 X 80	12.00 305	17.4 7,9
X 3½ X 90	12.00 305	17.4 7,9
X 4 X 100	12.00 305	17.5 7,9
X 4½ X 120	12.00 305	17.5 7,9
X 5 X 125	12.00 305	17.5 7,9
8 X 6 200 X 150	+ +	20.0 9,1

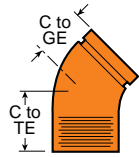
+ Contact Victaulic for details.

No. 18 and 19 Adapter Elbows

(Ductile iron)



No. 18



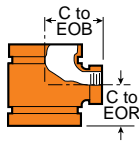
No. 19

Fitting Size		No. 18 90° Adapter Elbow @			No. 19 45° Adapter Elbow @		
Nominal Dia. In./mm	Actual Outside Dia. In./mm	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg
¾ 20	1.050 26,9	2.25 57	2.25 57	0.5 0,2	1.50 38	1.50 38	0.5 0,2
1 25	1.315 33,7	2.25 57	2.25 57	0.5 0,2	1.75 44	1.75 44	0.6 0,3
1¼ 32	1.660 42,4	2.75 70	2.75 70	0.9 0,4	1.75 44	1.75 44	0.6 0,3
1½ 40	1.900 48,3	2.75 70	2.75 70	1.1 0,5	1.75 44	1.75 44	0.9 0,4
2 50	2.375 60,3	3.25 83	4.25 108	2.5 1,1	2.00 51	3.00 76	1.9 0,9
2½ 65	2.875 73,0	3.75 95	3.75 95	3.0 1,4	2.25 57	2.25 57	2.3 1,0
3 80	3.500 88,9	4.25 108	6.00 152	5.8 2,6	2.50 64	4.25 108	5.0 2,3
3½ 90	4.000 101,6	4.50 114	6.25 159	8.0 3,6	5.25 133	5.25 133	8.8 4,0
4 100	4.500 114,3	5.00 127	7.25 184	12.0 5,4	3.00 76	5.25 133	8.8 4,0
6 150	6.625 168,3	6.50 165	6.50 165	17.6 8,0	3.50 89	3.50 89	12.7 5,8

© Available with British Standard Pipe Threads, specify "BSP" clearly on order.
+ Contact Victaulic for details.

No. 27 Standpipe Tee

(Ductile Iron)



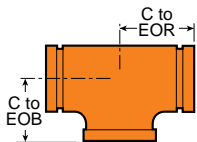
No. 27

Nominal Size Inches/mm	C to EOR Inches mm	C to EOB Inches mm	Approx Weight Each Lbs. kg
4 X 4 X 2½ 100 X 100 X 65	3.25 83	4.00 102	9.1 4,1
6 X 6 X 2½ 150 X 150 X 65	3.25 83	5.13 130	14.8 6,7

Available with British Standard Pipe Threads, specify "BSP" clearly on order.

No. 21 Bullhead Tee

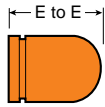
(Ductile Iron)



No. 21

Nominal Size Inches/mm	C to EOR Inches mm	C to EOB Inches mm	Approx Weight Each Lbs. kg
5 X 5 X 8 125 X 125 X 200	7.75 197	5.50 140	28.7 13,0
6 X 6 X 8 150 X 150 X 200	7.75 197	6.50 165	37.5 17,0

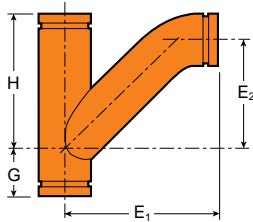
No. 61 Bull Plug (Steel)



Fitting Size		E to E Inches mm	Approx. Weight Each Lbs. kg
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm		
2 50	2.375 60,3	4.00 102	2.5 1,1
2½ 65	2.875 73,0	5.00 127	3.0 1,4
3 80	3.500 88,9	6.00 152	4.5 2,0
4 100	4.500 114,3	7.00 178	7.5 3,4
5 125	5.563 141,3	8.00 203	12.0 5,4
6 150	6.625 168,3	10.00 254	17.0 7,7

‡ Steel dish caps available through 24" (600 mm), contact Victaulic.
No. 60 cap is not suitable for use in vacuum service with Style 72 or 750 couplings.
No. 61 Bull Plugs should be used.

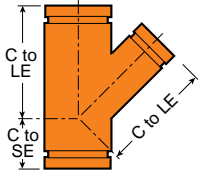
No. 32 Tee Wye (Segmentally welded steel)



Nominal Size Inches/mm	Dimensions – Inches/millimeters				Approx. Weight Each Lbs./kg
	G	H	E ₁	E ₂	
2 X 2 X 2 50 X 50 X 50	2.75 70	7.00 178	9.00 229	4.63 118	6.4 2,9
2½ X 2½ X 2½ 65 X 65 X 65	3.00 76	7.75 197	10.50 267	5.75 146	11.5 5,2
3 X 3 X 3 80 X 80 X 80	3.25 83	8.50 216	11.50 292	6.50 165	14.3 6,5
3½ X 3½ X 3½ 90 X 90 X 90	3.25 89	10.00 254	13.00 330	7.75 197	22.9 10,4
4 X 4 X 3 100 X 100 X 80	3.75 95	10.50 267	12.88 327	7.88 200	23.0 10,4
X 4 X 100	3.75 95	10.50 267	13.63 346	8.13 207	26.0 11,8
5 X 5 X 3 125 X 125 X 80	4.00 102	12.50 318	14.25 362	9.25 235	29.0 13,2
X 4 X 100	4.00 102	12.50 318	15.13 384	9.63 245	36.7 16,6
X 5 X 125	4.00 102	12.50 318	16.13 410	10.00 254	48.0 21,8
6 X 6 X 3 150 X 150 X 80	4.50 114	14.00 356	15.31 389	10.31 262	37.3 16,9
X 4 X 100	4.50 114	14.00 356	16.25 413	10.75 273	46.3 21,0
X 5 X 125	4.50 114	14.00 356	17.25 438	11.13 283	55.0 24,9
X 6 X 150	4.50 114	14.00 356	18.25 464	11.50 292	60.5 27,4
8 X 8 X 3 200 X 200 X 80	6.00 152	18.00 457	18.19 462	13.19 335	76.0 34,5
X 4 X 100	6.00 152	18.00 457	19.00 483	13.50 343	76.4 34,7
X 5 X 125	6.00 152	18.00 457	20.00 508	13.88 352	85.6 38,8
X 6 X 150	6.00 152	18.00 457	21.13 537	14.38 365	112.0 50,8
X 8 X 200	6.00 152	18.00 457	23.25 591	15.25 387	127.1 57,7
10 X 10 X 3 250 X 250 X 80	6.50 165	20.50 521	19.88 505	14.88 378	96.0 43,5
X 4 X 100	6.50 165	20.50 521	20.75 527	15.25 387	97.4 44,2
X 5 X 125	6.50 165	20.50 521	21.88 556	15.75 400	115.0 52,2
X 6 X 150	6.50 165	20.50 521	22.88 581	16.13 410	133.1 60,4
X 8 X 200	6.50 165	20.50 521	27.25 692	19.25 489	156.0 70,8
X 10 X 250	6.50 165	20.50 521	27.25 692	18.00 457	190.0 86,2
12 X 12 X 12 300 X 300 X 300	7.00 178	23.00 584	31.00 787	20.50 521	240.0 108,9

No. 30-R Reducing Lateral

(Segmentally welded steel)

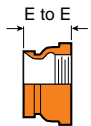


Nominal Size Inches/mm	C to LE Inches mm	C to SE Inches mm	Approx Weight Each Lbs. kg
3 X 3 X 2 80 X 80 X 50	8.50 216	3.25 83	9.8 4.4
X 2½ X 65	8.50 216	3.25 83	9.8 4.4
4 X 4 X 2 100 X 100 X 50	10.50 267	3.75 95	10.0 4.5
X 2½ X 65	10.50 267	3.75 95	10.0 4.5
X 3 X 80	10.50 267	3.75 95	18.3 8.3
5 X 5 X 2 125 X 125 X 50	12.50 318	4.00 102	24.0 10.9
X 3 X 80	12.50 318	4.00 102	27.0 12.2
X 4 X 100	12.50 318	4.00 102	26.5 12.0
6 X 6 X 3 150 X 150 X 80	14.00 356	4.50 114	37.0 16.8
X 4 X 100	14.00 356	4.50 114	36.0 16.3
X 5 X 125	14.00 356	4.50 114	44.7 20.3
8 X 8 X 4 200 X 200 X 100	18.00 457	6.00 152	62.0 28.1
X 5 X 125	18.00 457	6.00 152	75.5 34.2
X 6 X 150	18.00 457	6.00 152	82.0 37.2
10 X 10 X 4 250 X 250 X 100	20.50 521	6.50 165	104.8 47.5
X 5 X 125	20.50 521	6.50 165	99.0 44.9
X 6 X 150	20.50 521	6.50 165	105.8 48.0
X 8 X 200	20.50 521	6.50 165	118.0 53.5
12 X 12 X 5 300 X 300 X 125	23.00 584	7.00 178	122.0 55.3
X 6 X 150	23.00 584	7.00 178	137.0 62.1
X 8 X 200	23.00 584	7.00 178	147.0 66.7

Nominal Size Inches/mm	C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs kg
12 X 12 X 10 300 X 300 X 250	23.00 584	7.00 178	167.0 75.8
14 X 14 X 4 350 X 350 X 100	26.50 673	7.50 191	172.0 78.0
X 6 X 150	26.50 673	7.50 191	187.0 84.8
X 8 X 200	26.50 673	7.50 191	205.8 93.4
X 10 X 250	26.50 673	7.50 191	235.0 106.6
X 12 X 300	26.50 673	7.50 191	250.0 113.4
16 X 16 X 6 400 X 400 X 150	29.00 737	8.00 203	215.0 97.5
X 8 X 200	29.00 737	8.00 203	252.5 114.5
X 10 X 250	29.00 737	8.00 203	265.0 120.2
X 12 X 300	29.00 737	8.00 203	295.0 133.8
X 14 X 350	29.00 737	8.00 203	305.0 138.3
18 X 18 X 6 450 X 450 X 150	32.00 813	8.50 216	274.0 124.3
X 8 X 200	32.00 813	8.50 216	275.0 124.7
X 12 X 300	32.00 813	8.50 216	347.0 157.4
X 14 X 350	32.00 813	8.50 216	350.0 158.8
X 16 X 400	32.00 813	8.50 216	362.0 164.2
20 X 20 X 12 500 X 500 X 300	35.00 889	9.00 229	415.0 188.2
X 14 X 350	35.00 889	9.00 229	420.0 190.5
X 16 X 400	35.00 889	9.00 229	425.0 192.8
24 X 24 X 16 600 X 600 X 400	40.00 1016	10.00 254	425.0 192.8
X 20 X 600	40.00 1016	10.00 254	570.0 258.6

No. 80 Female Threaded Adapter

Ductile Iron (except as noted)

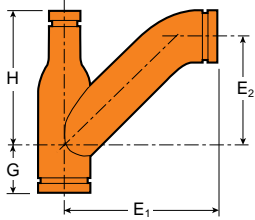


Fitting Size		E to E Inches mm	Approx. Weight Each Lbs. kg
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm		
¾ 20	1.050 26.9	2.00 51	1.0 0.5
1 25	1.315 33.7	2.06 52	1.0 0.5
1¼ 32	1.660 42.4	2.31 59	1.5 s 0.7
1½ 40	1.900 48.3	2.31 59	1.5 s 0.7
2 50	2.375 60.3	2.50 64	1.4 0.6
2½ 65	2.875 73.0	2.75 70	1.5 0.7
3 80	3.500 88.9	2.75 70	2.9 1.3
4 100	4.500 114.3	3.25 83	4.5 2.0

Available with British Standard Pipe threads, specify "BSP" clearly on order.
s = steel

No. 32-R Reducing Tee Wye

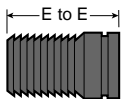
(Segmentally welded steel)



Nominal Size Inches/mm	Dimensions Inches/mm				Approx. Weight Each Lbs kg
	G	H	E ₁	E ₂	
4 X 3 X 3 100 X 80 X 80	3.50 89	9.50 241	10.75 273	5.75 146	16.0 7,3
X 4 X 100	3.75 95	10.50 267	13.63 346	8.13 206	16.0 7,3
5 X 3 X 3 125 X 80 X 80	1.25 32	9.75 248	11.50 292	7.63 194	25.0 11,3
X 5 X 125	4.00 102	12.50 318	16.13 410	11.13 283	43.4 19,5
5 X 4 X 3 125 X 100 X 80	1.88 48	9.13 232	11.88 302	6.88 175	21.0 9,5
X 4 X 100	1.88 48	9.13 232	12.75 324	7.25 184	25.0 11,3
6 X 4 X 6 150 X 100 X 150	4.50 114	14.00 356	18.25 464	11.50 292	61.0 27,7
6 X 5 X 3 150 X 125 X 80	1.25 32	10.75 273	13.00 330	8.00 203	27.0 12,2
X 4 X 100	1.25 32	10.75 273	13.88 352	8.38 213	31.0 14,1
8 X 6 X 4 200 X 150 X 100	1.00 25	12.00 304	14.75 375	9.25 235	45.0 20,4
8 X 6 X 8 200 X 150 X 200	6.00 152	18.00 457	23.25 591	15.25 387	112.0 50,8

No. 48 Hose Nipple

(Steel)



Fitting Size		E to E Inches mm	Approx. Weight Each Lbs. kg
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm		
¾ 20	1.050 26,9	3.12 79	0.3 0,1
1 25	1.315 33,7	3.38 86	0.4 0,2
1¼ 32	1.660 42,4	3.88 98	0.6 0,3
1½ 40	1.900 48,3	3.88 98	0.8 0,4
2 50	2.375 60,3	4.50 114	1.1 0,5
2½ 65	2.875 73,0	5.38 137	2.0 0,9
3 80	3.500 88,9	5.75 146	3.2 1,5
4 100	4.500 114,3	7.00 178	4.9 2,2
5 125	5.563 141,3	8.75 222	8.0 3,6
6 150	6.625 168,3	10.12 257	14.3 6,5
8 200	8.625 219,1	11.88 302	24.7 11,2
10 250	10.750 273,0	12.50 318	40.1 18,2
12 300	12.750 323,9	14.50 368	62.0 28,1

This product shall be manufactured by Victaulic Company. All products shall 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.