

# Grooved End Fittings

Victaulic offers a broad line of fittings in sizes through 48"/1200mm 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 permits 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 ductile iron, steel or segmentally welded steel depending on styles and size. Fittings are painted orange enamel with a galvanized finish available as an option, 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.



NO. 20 TEE



NO. 10 ELBOW



AGS – ADVANCED GROOVE SYSTEM

**Advanced Groove System** – For 14 – 24"/350 – 600mm piping systems, Victaulic now offers the Advanced Groove System (AGS). Refer to Section 20.05 for AGS fitting details.

**Stainless Steel** – Grooved end fittings are available in Schedule 10 Type 316 stainless steel (Schedule 5, 40 and Type 304 available as an option) 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 – 200mm. 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 – 300mm for use with “ES” grooved pipe and HP-70ES EndSeal couplings. “ES” fittings are painted black 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.

**JOB/OWNER**

System No. \_\_\_\_\_  
 Location \_\_\_\_\_

**CONTRACTOR**

Submitted By \_\_\_\_\_  
 Date \_\_\_\_\_

**ENGINEER**

Spec Sect \_\_\_\_\_ Para \_\_\_\_\_  
 Approved \_\_\_\_\_  
 Date \_\_\_\_\_

# Grooved End Fittings



NO. 10 ELBOW



NO. 20 TEE

## 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.

Size		Dimension – Feet/meters					
Nominal Size In./mm	Actual Outside Dia. In./mm	Elbows				Tees	
		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		
1 25	1.315 33.7	1.7 0.5	—	0.8 0.2	—	4.2 1.3	1.7 0.5
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
76.1 mm	3.000 76.1	4.3 1.3	—	2.1 0.7	—	10.8 3.3	4.3 1.3
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
108.0 mm	4.250 108.0	6.4 2.0	—	3.2 0.9	—	15.3 4.7	6.4 2.0
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
133.0 mm	5.250 133.0	8.1 2.5	—	4.1 1.2	—	20.0 6.2	8.1 2.5
139.7 mm	5.500 139.7	8.5 2.6	—	4.2 1.3	—	21.0 6.4	8.5 2.6
5 125	5.563 141.3	8.5 2.6	—	4.2 1.3	—	21.0 6.4	8.5 2.6
159.0 mm	6.250 159.0	9.4 2.9	—	4.9 1.5	—	25.0 7.6	9.6 2.9
165.1 mm	6.500 165.1	9.6 2.9	—	5.0 1.5	—	25.0 7.6	10.0 3.0
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
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
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
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
14 350	14.000 355.6	#	15.8 4.8	#	11.0 3.4	70.0 21.3	23.0 7.0
16 400	16.000 406.4	#	18.0 5.5	#	13.0 4.0	80.0 24.4	27.0 8.2
18 450	18.000 457.0	#	20.0 6.1	#	14.0 4.3	90.0 27.4	30.0 9.1
20 800	20.000 508.0	#	22.5 6.9	#	16.0 4.9	100.0 30.5	33.0 10.1
24 600	24.000 610.0	#	27.0 8.2	#	19.0 5.8	120.0 36.6	40.0 12.2
26 650	26.000 660.4	#	28.0 8.5	#	20.5 6.3	130.0 39.6	43.0 13.1
30 750	30.000 762.0	#	34.0 10.4	#	24.0 7.3	150.0 45.7	50.0 15.2
36 900	36.000 914.0	#	40.5 12.3	#	28.5 8.7	180.0 54.9	60.0 18.3
42 1050	42.000 1067.0	#	47.0 14.3	#	33.0 10.1	210.0 64.0	70.0 21.3

## Grooved End Fittings



NO. 10 ELBOW

NO. 20 TEE

### MATERIAL SPECIFICATIONS

**Fitting:** Ductile iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request.

- **Or:** Segmentally welded steel as shown under nipples

**Nipples:** (adapter, swaged & hose)

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

# Grooved End Fittings



NO. 10 ELBOW

NO. 20 TEE

## DIMENSIONS

### Elbows

**NO. 10** 90° Elbow

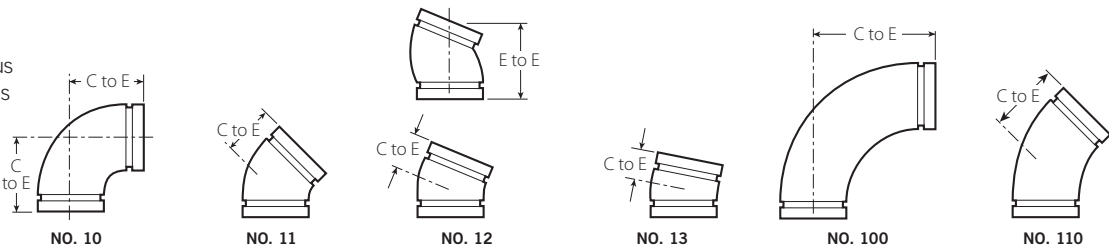
**NO. 11** 45° Elbow

**NO. 12** 22½° Elbow

**NO. 13** 11¼° Elbow

**NO. 100** 90° Long Radius

**NO. 110** 45° Long Radius  
(Ductile Iron \*)



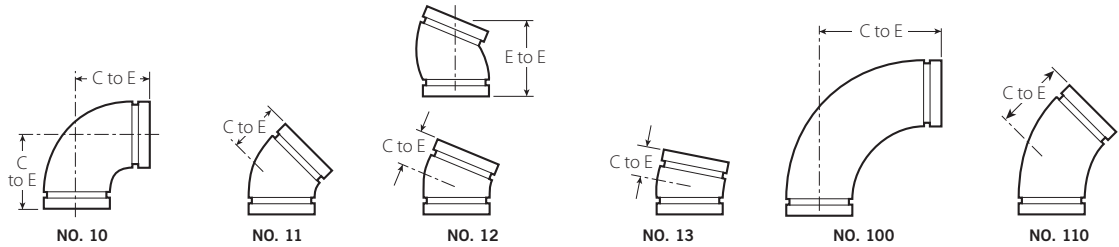
Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow (sw)		No. 13 11¼° Elbow (sw)		No. 100† 90° Long Radius Elbow (S)		No. 110† 45° Long Radius Elbow (S)	
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each 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	—	—	—	—	—
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	—	—	—	—
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	—	—	—	—
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 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	4.38 111	2.5 1.1	2.75 70	1.8 0.8
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	5.00 127	4.1 1.9	3.00 76	2.8 1.3
76.1 mm	3.000 76.1	3.75 95	3.7 1.7	2.25 57	3.4 1.5	—	—	—	—	—	—	—	—
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	5.88 149	6.0 2.7	3.38 86	4.9 2.2
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	—	—	—	—
4 100	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	7.50 191	12.3 5.6	4.00 102	7.3 3.3
108.0 mm	4.250 108.0	5.00 127	11.0 5.0	3.00 76	5.6 2.5	—	—	—	—	—	—	—	—
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	—	—	—	—
5 125	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	+ 18.2	8.3	+ 14.8	6.7
133.0 mm	5.250 133.0	5.50 140	11.7 5.3	3.25 83	8.3 3.8	—	—	—	—	—	—	—	—
139.7 mm	5.500 139.7	5.50 140	11.7 5.3	3.25 83	8.3 3.8	—	—	—	—	—	—	—	—
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	10.75 273	30.4 13.8	5.50 140	17.4 7.9
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	10.75 273	29.0 13.2	5.50 140	19.0 8.6

# Grooved End Fittings



NO. 10 ELBOW

NO. 20 TEE



Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow (sw)		No. 13 11¼° Elbow (sw)		No. 100† 90° Long Radius Elbow (S)		No. 110† 45° Long Radius Elbow (S)	
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg
8	8.625	7.75	29.9	4.25	20.4	7.75 @	20.0	2.00	10.1	14.25	66.0	7.25	36.0
200	219.1	197	13.6	108	9.3	197	9.1	51	4.6	362	30.0	184	16.3
10	10.750	9.00	63.3	4.75	37.5	4.38 sw	30.0	2.13 sw	11.8	15.00	107.0	6.25	57.0
250	273.0	229	28.7	121	17.0	111	13.6	54	5.3	381	48.5	159	25.9
12	12.750	10.00	74.0	5.25	66.7	4.88 sw	40.0	2.25 sw	29.3	18.00	156.0	7.50	90.0
300	323.9	254	33.6	133	30.3	124	18.1	57	13.3	457	70.8	191	40.8
14 #	14.000	14.00	136.0	5.75	65.0	5.00 sw	46.0	3.50 sw	32.0	21.00 s	164.0	8.75 s	82.0
350	355.6	355.6	61.7	146	29.5	127	20.9	89	14.5	533	74.4	222	37.2
377.0mm †	14.843 377.0	14.84 376.9	149.3 67.7	6.15 156.2	82.0 37.2	—	—	—	—	—	—	—	—
16 #	16.000	16.00	171.0	6.63	88.0	5.00 sw	58.0	4.00 sw	42.0	24.00 s	210.0	10.00 s	100.0
400	406.4	406.4	77.6	168	39.9	127	26.3	102	19.1	610	95.3	254	45.4
426.0mm †	16.772 426.0	16.77 426.0	198.6 90.1	6.95 176.5	101.3 45.9	—	—	—	—	—	—	—	—
18 #	18.000	18.00	228.0	7.46	108.0	5.50 sw	65.0	4.50 sw	53.2	27.00 s	273.0	11.25 s	135.0
450	457.0	457.2	103.4	189	50.0	140	29.5	114	24.1	686	123.8	286	61.2
480.0mm †	18.898 480.0	18.90 480.0	291.0 132.0	7.83 198.8	141.7 64.3	—	—	—	—	—	—	—	—
20 #	20.000	20.00	298.0	8.28	138.0	6.00 sw	78.6	5.00 sw	65.0	30.00 s	343.0	12.50 s	174.0
500	508.0	508.0	135.2	210	62.6	152	36.0	127	29.5	762	155.6	318	78.9
530.0mm †	20.866 530.0	20.87 530.0	355.0 161.0	8.64 219.4	179.0 81.2	—	—	—	—	—	—	—	—
24 #	24.000	24.00	438.0	9.94	221.0	7.00 sw	140.0	6.00 sw	60.0	36.00 s	516.0	15.00 s	251.0
550	610.0	609.6	198.7	252	100.2	178	63.5	152	27.2	914	234.1	381	113.9
630.0mm †	24.803 630.0	24.80 630.0	545.0 247.2	10.27 261.0	255.2 115.7	—	—	—	—	—	—	—	—
14 – 24 350 – 600	For AGS fitting information, see publication 20.05												

@ Gooseneck design, end-to-end dimension

\* (sw) Segmentally welded steel

# For use on cut grooved systems only. For 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 office.

† Chinese standard sizes

# Grooved End Fittings



NO. 10 ELBOW



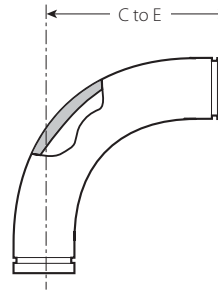
NO. 20 TEE

## Long Radius Elbow 3D

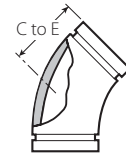
With added wall thickness at bend for abrasive services.

**NO. 100-3D** 90° Long Radius Elbow 3D

**NO. 110-3D** 45° Long Radius Elbow 3D (Ductile Iron)



NO. 100-3D



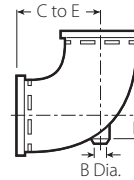
NO. 110-3D

Size		Wall Thickness – Inches/mm			No. 100-3D 90° Long Radius Elbow		No. 110-3D 45° Long Radius Elbow	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	In Non-critical Area	At Back Wear Area	Extra	C to E Inches mm	Approx. Weight Each Lbs. kg	C to E Inches mm	Approx. 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

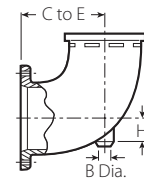
## Reducing Base Support Elbow

**NO. R-10G** Grv. × Grv.

**NO. R-10F** Grv. × Flange (Ductile Iron)



NO. R-10G



NO. R-10F

Size		No. R-10 Reducing Base Support Elbow			Approx. Weight Each	
Nominal Size Inches mm		C to E Inches mm	H Inches mm	B Diameter Inches mm	Grv. × Grv. Lbs. kg	Grv. × Flange Lbs. kg
6 150	× 4 100	9.00 229	1.25 32	1.50 38	19.0 8.6	33.0 15.0
	× 5 125	9.00 229	1.50 38	1.50 38	23.0 10.4	38.0 17.2
8 200	× 6 150	10.50 267	2.13 54	1.50 38	33.0 15.0	52.0 23.6
	× 8 200	12.00 305	2.40 61	1.50 38	61.0 27.7	88.0 39.9

# Grooved End Fittings



NO. 10 ELBOW



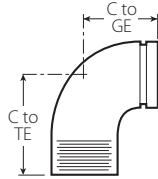
NO. 20 TEE

## Adapter Elbow

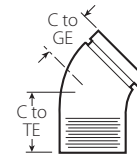
NO. 18 90° Adapter Elbow

NO. 19 45° Adapter Elbow

(Ductile Iron)



NO. 18



NO. 19

Size		No. 18 90° Adapter Elbow @			No. 19 45° Adapter Elbow @		
Nominal Size Inches mm	Actual Outside Diameter Inches 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

# Grooved End Fittings



NO. 10 ELBOW



NO. 20 TEE

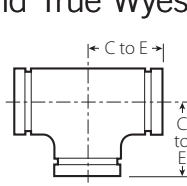
## Tees, Crosses and True Wyes

**NO. 20** Tee

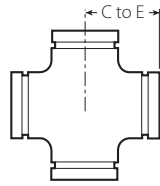
**NO. 35** Cross

**NO. 33** True Wye

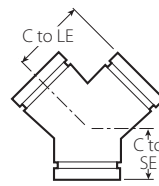
**NO. 29M** Tee with Threaded Branch (Ductile Iron \*)



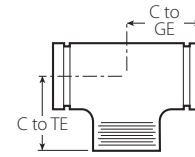
NO. 20



NO. 35



NO. 33



NO. 29M

Size		No. 20 Tee		No. 35 Cross (sw)		No. 33 True Wye (sw)			No. 29M Tee with Threaded Branch		
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Weight Each Lbs. kg	C to E Inches mm	Approx. Weight Each Lbs. kg	C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs. kg	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg
3/4 20	1.050 26.9	2.25 57	0.6 0.3	2.25 57	0.9 0.4	—	—	—	2.25 57	2.25 57	0.6 0.3
1 25	1.315 33.7	2.25 57	1.0 0.5	2.25 57	1.3 0.6	2.25 57	2.25 57	1.1 0.5	2.25 57	2.25 57	1.0 0.5
1 1/4 32	1.660 42.4	2.75 70	1.5 0.7	2.75 70	2.1 1.0	2.75 70	2.50 64	1.5 0.7	2.75 70	2.75 70	1.5 0.7
1 1/2 40	1.900 48.3	2.75 70	2.0 0.9	2.75 70	2.5 1.1	2.75 70	2.75 70	1.8 0.8	2.75 70	2.75 70	2.0 0.9
2 50	2.375 60.3	3.25 83	3.0 1.4	3.25 83	3.8 1.7	3.25 83	2.75 70	2.5 1.1	3.25 83	4.25 108	3.00 1.4
2 1/2 65	2.875 73.0	3.75 95	4.3 2.0	3.75 95	6.1 2.8	3.75 95	3.00 76	4.3 2.0	3.75 95	3.75 95	4.3 2.0
76.1 mm	3.000 76.1	3.75 95	5.2 2.4	—	—	—	—	—	3.75 95	3.75 95	5.2 (sw) 2.4
3 80	3.500 88.9	4.25 108	6.8 3.0	4.25 108	10.5 4.8	4.25 108	3.25 83	6.1 2.8	4.25 108	6.00 152	6.8 3.1
3 1/2 90	4.000 101.6	4.50 (sw) 114	7.9 3.6	4.50 114	11.5 5.2	4.50 114	3.50 89	9.6 4.4	4.50 114	4.50 114	7.9 (sw) 3.6
108.0 mm	4.250 108.0	5.00 127	15.5 7.0	—	—	—	—	—	5.00 127	5.00 127	15.5 7.0
4 100	4.500 114.3	5.00 127	11.9 5.4	5.00 127	15.8 7.2	5.00 127	3.75 95	10.0 4.5	5.00 127	7.25 184	11.9 5.4
4 1/2 120	5.000 127.0	5.25 (sw) 133	15.0 6.8	5.25 133	18.5 8.4	—	—	—	5.25 133	5.25 133	15.0 (sw) 6.8
133.0 mm	5.250 133.0	5.50 140	17.8 8.1	—	—	—	—	—	5.50 140	5.50 140	17.8 8.1
139.7 mm	5.500 139.7	5.50 140	17.8 8.1	—	—	—	—	—	5.50 140	5.50 140	17.8 8.1
5 125	5.563 141.3	5.50 140	17.8 8.1	5.50 140	20.0 9.1	5.50 140	4.00 102	15.0 6.8	5.50 140	5.50 140	17.8 (sw) 8.1
159.0 mm	6.250 159.0	6.50 165	27.1 12.3	—	—	—	—	—	6.50 165	6.50 165	27.1 12.3
165.1 mm	6.500 165.1	6.50 165	22.0 10.0	6.50 165	28.0 12.7	—	—	—	6.50 165	6.50 165	22.0 10.0
6 150	6.625 168.3	6.50 165	25.7 11.7	6.50 165	28.0 12.7	6.50 165	4.50 114	22.3 10.1	6.50 165	6.50 165	25.7 (sw) 11.7
8 200	8.625 219.1	7.75 197	47.6 21.6	7.75 197	48.0 21.8	7.75 197	6.00 152	36.0 16.3	7.75 197	7.75 197	47.6 (sw) 21.6
10 250	10.750 273.0	9.00 229	99.0 44.9	9.00 229	121.5 55.1	9.00 229	6.50 155	69.9 31.7	9.00 229	9.00 229	73.0 33.1
12 300	12.750 323.9	10.00 254	133.0 60.3	10.00 254	110.0 49.9	10.00 254	7.00 178	80.0 36.3	10.00 254	10.00 254	99.0 44.9

# Grooved End Fittings



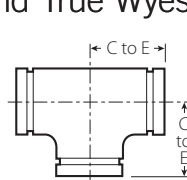
NO. 10 ELBOW



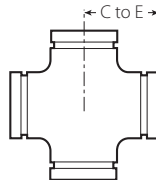
NO. 20 TEE

## Tees, Crosses and True Wyes

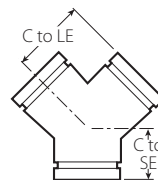
- NO. 20 Tee
- NO. 35 Cross
- NO. 33 True Wye
- NO. 29M Tee with Threaded Branch (Ductile Iron \*)



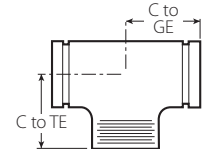
NO. 20



NO. 35



NO. 33



NO. 29M

Size		No. 20 Tee		No. 35 Cross (sw)		No. 33 True Wye (sw)			No. 29M Tee with Threaded Branch		
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Weight Each Lbs. kg	C to E Inches mm	Approx. Weight Each Lbs. kg	C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs. kg	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg
14 # 350	14.000 355.6	11.00 279	145.0 65.8	11.00 279	198.0 89.8	11.00 279	7.50 191	134.2 60.8	—	—	—
377.0mm	14.000 355.6	11.00 279	145.0 65.8	—	—	—	—	—	—	—	—
16 # 400	16.000 406.4	12.00 305	186.0 84.4	12.00 305	250.0 113.4	12.00 305	8.00 203	167.0 75.7	—	—	—
426.0mm †	16.000 406.4	12.00 305	186.0 84.4	—	—	—	—	—	—	—	—
18 # 450	18.000 457.0	14.00 356	256.0 116.1	15.50 394	350.0 158.8	15.50 394	8.50 216	234.0 106.1	—	—	—
480.0mm †	18.000 457.0	14.00 356	256.0 116.1	—	—	—	—	—	—	—	—
20 # 500	20.000 508.0	15.00 381	339.0 153.8	17.25 438	452.0 205.0	17.25 438	9.00 229	281.0 127.5	—	—	—
530.0mm †	20.000 508.0	15.00 381	339.0 153.8	—	—	—	—	—	—	—	—
24 # 550	24.000 610.0	17.00 432	473.0 214.5	20.00 508	795.0 360.6	20.00 508	10.00 254	523.0 237.2	—	—	—
630.0mm †	24.000 610.0	17.00 432	473.0 214.5	—	—	—	—	—	—	—	—
14 – 24 350 – 600	For AGS fitting information, see publication 20.05										

\* (sw) Segmentally welded steel

# For use on cut grooved systems only. For 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 office.

† Chinese standard sizes

**IMPORTANT NOTE:**

Fittings size 26 – 48"/650 – 1050mm are available roll grooved for installation with Style 770 large diameter pipe couplings, Contact Victaulic for details.

# Grooved End Fittings



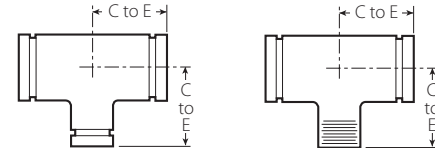
NO. 10 ELBOW

NO. 20 TEE

## Reducing Tee

NO. 25 Grooved Branch

NO. 29 Threaded Branch  
(Ductile Iron\*)



NO. 25

NO. 29

Size	Nominal Size Inches mm	No. 25 Std.	No. 29 w/ Thd. Branch	Approx. Weight Each
		C to E Inches mm	C to E Inches mm	Lbs. kg
1 25 × 1 × 3/4 20		+	+	1.0 0.5
		+	+	1.3 0.6
		+	+	1.5 0.7
1 1/4 32 × 1 1/4 32 × 1 25		+	+	1.5 0.7
		+	+	1.5 0.7
		+	+	1.7 0.8
1 1/2 40 × 1 1/2 40 × 3/4 20		+	+	1.5 0.7
		+	+	1.5 0.7
		+	+	1.7 0.8
		+	+	1.8 0.8
2 50 × 2 50 × 3/4 20		3.25 83	3.25 83	2.5 1.1
		3.25 83	3.25 83	2.7 1.2
		+	+	1.8 0.8
		3.25 83	3.25 (sw) 83	3.0 1.4
2 1/2 65 × 2 1/2 65 × 3/4 20		+	+	3.9 1.8
		3.75 95	3.75 (sw) 95	3.8 1.7
		+	+	4.2 1.7
		3.75 95	3.75 95	3.9 1.8
2 50 × 2 50 × 3/4 20		3.75 95	3.75 (sw) 95	4.5 2.0
		+	+	5.7 2.6
		4.25 108	4.25 108	6.1 2.8
		4.25 108	4.25 (sw) 108	6.5 2.9
3 80 × 3 80 × 3/4 20		+	+	8.0 3.6
		4.25 108	4.25 (sw) 108	6.5 2.9
		4.25 108	4.25 (sw) 108	6.2 2.8
		4.25 108	4.25 (sw) 108	6.4 2.9
4 100 × 4 100 × 3/4 20		+	+	8.0 3.6
		5.00 127	5.00 127	7.8 3.5

Size	Nominal Size Inches mm	No. 25 Std.	No. 29 w/ Thd. Branch	Approx. Weight Each
		C to E Inches mm	C to E Inches mm	Lbs. kg
4 100 × 4 100 × 1 1/4 32		+	+	9.6 4.4
		5.00 127	5.00 127	10.2 4.6
		5.00 127	5.00 127	11.2 5.1
		5.00 127	5.00 127	11.4 5.2
		5.00 127	5.00 127	11.6 5.3
5 125 × 5 125 × 1 25		+	+	14.0 6.4
		+	+	14.3 6.5
		5.50 (sw) 140	5.50 (sw) 140	14.5 6.6
		5.50 140	5.50 (sw) 140	15.2 6.9
		5.50 140	5.50 (sw) 140	16.6 7.5
		5.50 140	5.50 (sw) 140	16.7 7.6
6 150 × 6 150 × 1 25		+	+	23.0 10.4
		+	+	24.0 10.9
		6.50 165	6.50 165	21.6 9.8
		6.50 165	6.50 165	21.4 11.7
14 - 24 350 - 600		<b>AGS</b> For AGS fitting information, see publication 20.05		

+ Contact Victaulic for details.

\* Ductile iron except those that are marked (sw), which are segmentally welded steel.

# For use on cut grooved systems only. For 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 office.

**IMPORTANT NOTE:**

No. 29 Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

# Grooved End Fittings



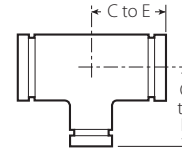
NO. 10 ELBOW



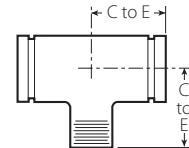
NO. 20 TEE

## Reducing Tee

**NO. 25** Grooved Branch  
**NO. 29** Threaded Branch  
 (Ductile Iron \*)



NO. 25



NO. 29

Size	No. 25 Std.	No. 29 w/ Thd. Branch	Approx. Weight Each
Nominal Size Inches mm	C to E Inches mm	C to E Inches mm	Lbs. kg
6 × 6 150 × 150	3 80	6.50 165	26.5 12.0
	4 100	6.50 165	25.0 11.3
	5 125	6.50 165	23.2 10.5
6½ × 6½ 165.1 × 165.1	3 80	6.50 (sw) 165	24.0 10.9
	4 100	6.50 (sw) 165	25.0 11.3
	8 × 8 200 × 200	1½ 40	+
8 × 8 200 × 200	2 50	7.75 (sw) 197	33.5 15.2
	2½ 65	+	39.0 17.7
	3 80	7.75 (sw) 197	33.6 15.2
	4 100	7.75 197	41.8 19.0
	5 125	7.75 (sw) 197	34.0 15.4
	6 150	7.75 197	42.3 19.2
	6.5 165.1	7.75 (sw) 197	48.0 21.8
10 × 10 250 × 250	1½ 40	+	62.0 28.1
	2 50	9.00 (sw) 229	62.0 28.1
	2½ 65	+	62.4 28.3
	3 80	+	60.0 27.2
	4 100	9.00 (sw) 229	61.0 27.7
	5 125	9.00 (sw) 229	52.0 23.6
	6 150	9.00 (sw) 229	59.0 26.8
	8 200	9.00 (sw) 229	64.7 29.3

Size	No. 25 Std.	No. 29 w/ Thd. Branch	Approx. Weight Each	
Nominal Size Inches mm	C to E Inches mm	C to E Inches mm	Lbs. kg	
12 × 12 300 × 300	1 25	+	77.0 34.9	
	2 50	+	80.0 36.3	
	2½ 65	+	78.0 35.4	
	3 80	10.00 (sw) 254	10.00 (sw) 254	82.0 37.2
	4 100	10.00 (sw) 254	10.00 (sw) 254	80.0 36.3
	5 125	10.00 (sw) 254	10.00 (sw) 254	75.0 34.0
	6 150	10.00 (sw) 254	10.00 (sw) 254	75.0 34.0
	8 200	10.00 (sw) 254	10.00 (sw) 254	80.0 36.3
	10 250	10.00 (sw) 254	10.00 (sw) 254	84.0 38.1
	# 14 × 14 350 × 350	4 100	+	102.0 46.3
6 150		+	108.2 49.1	
8 200		11.00 279	11.00 279	112.0 50.8
10 300		11.00 279	11.00 279	120.0 54.4
12 300		11.00 279	11.00 279	129.1 58.6
# 16 × 16 400 × 400	4 100	+	130.0 59.0	
14 - 24 350 - 600		<b>AGS</b> For AGS fitting information, see publication 20.05		

+ Contact Victaulic for details.

\* Ductile iron except those that are marked (sw), which are segmentally welded steel.

# For use on cut grooved systems only. For 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 office.

**IMPORTANT NOTE:**

No. 29 Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

# Grooved End Fittings

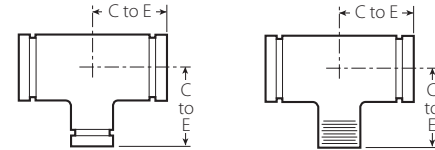


NO. 10 ELBOW

NO. 20 TEE

## Reducing Tee

**NO. 25** Grooved Branch  
**NO. 29** Threaded Branch  
 (Ductile Iron \*)



NO. 25

NO. 29

Size	Nominal Size Inches mm	No. 25 Std.		No. 29 w/ Thd. Branch		Approx. Weight Each				
		C to E Inches mm	C to E Inches mm	C to E Inches mm	C to E Inches mm	Lbs. kg	Lbs. kg			
# 16 400 × 16 400 × 6 150		+	+			133.5	60.6			
						12.00	12.00	145.0	65.8	
						10	12.00	12.00	149.5	67.8
						12	12.00	12.00	154.0	69.9
						14	305	305	167.0	75.8
						16	305	305	172.0	77.8
# 18 450 × 18 450 × 4 100		+	+			194.0	88.0			
						6	15.50	15.50	200.0	90.7
						8	15.50	15.50	202.0	91.6
						10	15.50	15.50	212.0	96.2
						12	15.50	15.50	222.6	101.0
						14	15.50	15.50	230.1	104.4
						16	15.50	15.50	247.6	112.3
						18	15.50	15.50	256.0	116.1
						20	15.50	15.50	264.0	119.8
						24	17.25	17.25	275.0	124.7

Size	Nominal Size Inches mm	No. 25 Std.		No. 29 w/ Thd. Branch		Approx. Weight Each				
		C to E Inches mm	C to E Inches mm	C to E Inches mm	C to E Inches mm	Lbs. kg	Lbs. kg			
# 20 500 × 20 500 × 16 400		—	—			288.6	130.9			
						17.25	17.25	297.0	134.7	
						18	17.25	300.0	136.0	
# 24 600 × 24 600 × 8 200		—	—			340.0	154.2			
						10	20.00	20.00	343.9	156.0
						12	20.00	20.00	352.8	160.0
						14	20.00	20.00	360.0	163.3
						16	20.00	20.00	378.0	171.5
						18	20.00	20.00	380.0	172.4
						20	20.00	20.00	373.0	169.2
						24	20.00	20.00	400.0	181.8
						30	20.00	20.00	450.0	204.5
						36	20.00	20.00	500.0	227.0
14 – 24 350 – 600		<b>AGS</b> For AGS fitting information, see publication 20.05								

+ Contact Victaulic for details.

\* Ductile iron except those that are marked (sw), which are segmentally welded steel.

# For use on cut grooved systems only. For 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 office.

**IMPORTANT NOTE:**

No. 29 Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

§ Cast fitting available. Contact Victaulic for details.

# Grooved End Fittings



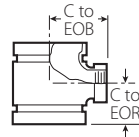
NO. 10 ELBOW



NO. 20 TEE

## Standpipe Tee

**NO. 27**  
(Ductile iron)



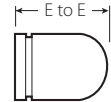
NO. 27

Size			No. 27 Standpipe Tee		
Nominal Size Inches	Inches	mm	C to EOR Inches	C to EOB Inches	Approx. Weight Each Lbs. kg
4	4	2 1/2	3.25	4.00	9.1
100	100	65	83	102	4.1
6	6	2 1/2	3.25	5.13	14.8
150	150	65	83	130	6.7

**IMPORTANT NOTE:**  
Available with British Standard Pipe Threads, specify "BSP" clearly on order.

## Bull Plug

**NO. 61**  
(Steel)



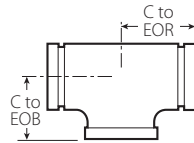
NO. 61

Size		No. 61 Bull Plug	
Nominal Size Inches	Actual Outside Diameter Inches	E to E Inches	Approx. Weight Each Lbs. kg
2	2.375	4.00	2.5
50	60.3	102	1.1
2 1/2	2.875	5.00	3.0
65	73.0	127	1.4
3	3.500	6.00	4.5
80	88.9	152	2.0
4	4.500	7.00	7.5
100	114.3	178	3.4
5	5.563	8.00	12.0
125	141.3	203	5.4
6	6.625	10.00	17.0
150	168.3	254	7.7

**IMPORTANT NOTES:**  
Steel dish caps available through 24"/600mm, contact Victaulic.  
No. 61 Bull Plugs should be used in vacuum service with Style 72 or 750 couplings

## Bullhead Tee

**NO. 21**  
(Ductile Iron)



NO. 21

Size			No. 21 Bullhead Tee		
Nominal Size Inches	Inches	mm	C to EOR Inches	C to EOB Inches	Approx. Weight Each Lbs. kg
5	5	8	7.75	5.50	28.7
125	125	200	197	140	13.0
6	6	8	7.75	6.50	37.5
150	150	200	197	165	17.0

# Grooved End Fittings



NO. 10 ELBOW

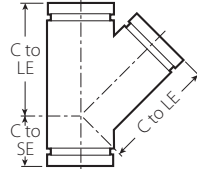


NO. 20 TEE

## 45° Lateral

### NO. 30

(Segmentally Welded Steel)



NO. 30

Size		No. 30 45° Lateral			Approx. Weight Each Lbs. kg
Nominal Size Inches mm	Actual Outside Diameter Inches mm	C to LE Inches mm	C to SE Inches mm		
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	
1 ¼ 32	1.660 42.4	5.75 146	2.50 64	2.5 (d) 1.1	
1 ½ 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	
2 ½ 65	2.875 73.0	7.75 197	3.00 76	9.0 94.1	
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	
3 ½ 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	
165.1 mm	6.500 165.1	14.00 356	4.50 114	43.6 19.8	

Size		No. 30 45° Lateral			Approx. Weight Each Lbs. kg
Nominal Size Inches mm	Actual Outside Diameter Inches mm	C to LE Inches mm	C to SE Inches mm		
6 150	6.625 168.3	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	
14 – 24 350 – 600	For AGS fitting information, see publication 20.05				

(d) Ductile iron

# For use on cut grooved systems only. For 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 office.

# Grooved End Fittings



NO. 10 ELBOW

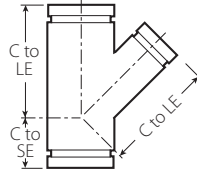


NO. 20 TEE

## 45° Reducing Lateral

### NO. 30-R

(Segmentally Welded Steel)



NO. 30-R

Size			No. 30-R 45° Reducing Lateral		
Nominal Size Inches	Inches	mm	C to LE Inches	C to SE Inches	Approx. Weight Each
					Lbs.
					kg
3	3	2	8.50	3.25	9.8
			216	83	4.4
		2½	8.50	3.25	9.8
		65	216	83	4.4
4	4	2	10.50	3.75	10.0
			267	95	4.5
		2½	10.50	3.75	10.0
		65	267	95	4.5
		3	10.50	3.75	18.3
		80	267	95	8.3
5	5	2	12.50	4.00	24.0
			318	102	10.9
		3	12.50	4.00	27.0
		80	318	102	212.2
		4	12.50	4.00	26.5
		100	318	102	12.0
		6	14.00	4.50	37.0
		80	356	114	16.8
		4	14.00	4.50	36.0
		100	356	114	16.3
		5	14.00	4.50	44.7
		125	356	114	20.3
		8	18.00	6.00	62.0
		4	18.00	6.00	28.1
		100	457	152	75.5
		5	18.00	6.00	34.2
		125	457	152	34.2
		6	18.00	6.00	82.0
		150	457	152	37.2
10	10	4	20.50	6.50	104.8
			521	165	147.5
		5	20.50	6.50	99.0
		125	521	165	44.9
		6	20.50	6.50	105.8
		150	521	165	48.0
		8	20.50	6.50	118.0
		200	521	165	53.5
12	12	5	23.00	7.00	122.0
			584	178	55.3
		6	23.00	7.00	137.0
		150	584	178	62.1
		8	23.00	7.00	147.0
		200	584	178	66.7
		10	23.00	7.00	167.0
		250	584	178	75.8

Size			No. 30-R 45° Reducing Lateral				
Nominal Size Inches	Inches	mm	C to LE Inches	C to SE Inches	Approx. Weight Each		
					Lbs.		
					kg		
# 14	14	4	26.50	7.50	172.0		
			673	191	78.0		
		6	26.50	7.50	187.0		
			150	673	191	84.8	
		8	26.50	7.50	205.8		
			200	673	191	93.4	
		10	26.50	7.50	235.0		
			250	673	191	106.6	
		12	26.50	7.50	250.0		
			300	673	191	113.4	
		# 16	16	6	29.00	8.00	215.0
					737	203	97.5
		8	29.00	8.00	252.5		
			200	737	203	114.5	
		10	29.00	8.00	265.0		
			250	737	203	120.2	
		12	29.00	8.00	295.0		
			300	737	203	133.8	
		14	29.00	8.00	305.0		
			350	737	203	138.3	
# 18	18	6	32.00	8.50	274.0		
			813	216	124.3		
		8	32.00	8.50	275.0		
			200	813	216	124.7	
		12	32.00	8.50	347.0		
			300	813	216	157.4	
14	32.00	8.50	350.0				
	350	813	216	158.8			
# 20	20	12	32.00	8.50	362.0		
			400	813	216	164.2	
		14	35.00	9.00	415.0		
			350	889	229	188.2	
		16	35.00	9.00	420.0		
			350	889	229	190.5	
		16	35.00	9.00	425.0		
			400	889	229	192.8	
# 24	24	16	40.00	10.00	425.0		
			600	1016	254	192.8	
		20	40.00	10.00	570.0		
		600	1016	254	258.6		
14 - 24 350 - 600			<b>AGS</b> For AGS fitting information, see publication 20.05				

# For use on cut grooved systems only. For 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 office.

# Grooved End Fittings



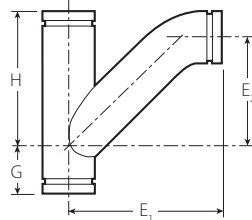
NO. 10 ELBOW



NO. 20 TEE

## Tee Wye

**NO. 32**  
(Segmentally Welded Steel)



NO. 32

Size			No. 32 Tee Wye				
Nominal Size Inches mm			G Inches mm	H Inches mm	E <sub>1</sub> Inches mm	E <sub>2</sub> Inches mm	Approx. Wgt. Each Lbs. kg
2 50	×	2 50	2.75 70	7.00 178	9.00 229	4.63 118	6.4 2.9
2½ 65	×	2½ 65	3.00 76	7.75 197	10.50 267	5.75 146	11.5 5.2
3 80	×	3 80	3.25 83	8.50 216	11.50 292	6.50 165	14.3 6.5
3½ 90	×	3½ 90	3.25 89	10.00 254	13.00 330	7.75 197	22.9 10.4
4 100	×	4 100	3.75 95	10.50 267	12.88 327	7.88 200	23.0 10.4
		3 80	3.75 95	10.50 267	13.63 346	8.13 207	26.0 11.8
5 125	×	3 80	4.00 102	12.50 318	14.25 362	9.25 235	29.0 13.2
		4 100	4.00 102	12.50 318	15.13 384	9.63 245	36.7 16.6
		5 125	4.00 102	12.50 318	16.13 410	10.00 254	48.0 21.8
6 150	×	3 80	4.50 114	14.00 356	15.31 389	10.31 262	37.3 16.9
		4 100	4.50 114	14.00 356	16.25 413	10.75 273	46.3 21.0
		5 125	4.50 114	14.00 356	17.25 438	11.13 283	55.0 24.9
		6 150	4.50 114	14.00 356	18.25 464	11.50 292	60.5 27.4

Size			No. 32 Tee Wye				
Nominal Size Inches mm			G Inches mm	H Inches mm	E <sub>1</sub> Inches mm	E <sub>2</sub> Inches mm	Approx. Wgt. Each Lbs. kg
8 200	×	3 80	6.00 152	18.00 457	18.19 462	13.19 335	76.0 34.5
		4 100	6.00 152	18.00 457	19.00 483	13.50 343	76.4 34.7
		5 125	6.00 152	18.00 457	20.00 508	13.88 352	85.6 38.8
		6 150	6.00 152	18.00 457	21.13 537	14.38 365	112.0 50.8
		8 200	6.00 152	18.00 457	23.25 591	15.25 387	127.1 57.7
10 250	×	3 80	6.50 165	20.50 521	19.88 505	14.88 378	96.0 43.5
		4 100	6.50 165	20.50 521	20.75 527	15.25 387	97.4 44.2
		5 125	6.50 165	20.50 521	21.88 556	15.75 400	115.0 52.2
10 250	×	6 150	6.50 165	20.50 521	22.88 581	16.13 410	133.1 60.4
		8 200	6.50 165	20.50 521	27.25 692	19.25 489	156.0 70.8
		10 250	6.50 165	20.50 521	27.25 692	18.00 457	190.0 86.2
12 300	×	12 300	7.00 178	23.00 584	31.00 787	20.50 521	240.0 108.9

# Grooved End Fittings



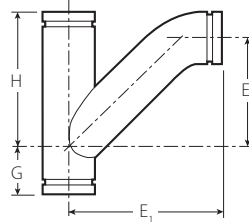
NO. 10 ELBOW



NO. 20 TEE

## Reducing Tee Wye

**NO. 32-R**  
(Segmentally Welded Steel)



NO. 32-R

Size			No. 32-R Reducing Tee Wye				
Nominal Size Inches	Inches	mm	G Inches	H Inches	E <sub>1</sub> Inches	E <sub>2</sub> Inches	Approx. Wgt. Each Lbs. kg
4	3	3	3.50	9.50	10.75	5.75	16.0
			89	241	273	146	7.3
100	80	80	3.75	10.50	13.63	8.13	16.0
			95	267	346	206	7.3
5	3	3	1.25	9.75	11.50	7.63	25.0
			32	248	292	194	11.3
125	80	80	4.00	12.50	16.13	11.13	43.4
			102	318	410	283	19.5
5	4	3	1.88	9.13	11.88	6.88	21.0
			48	232	302	175	9.5
125	100	80	1.88	9.13	12.75	7.25	25.0
			48	232	324	184	11.3

Size			No. 32-R Reducing Tee Wye				
Nominal Size Inches	Inches	mm	G Inches	H Inches	E <sub>1</sub> Inches	E <sub>2</sub> Inches	Approx. Wgt. Each Lbs. kg
6	4	6	4.50	14.00	18.25	11.50	61.0
			114	356	464	292	27.7
150	100	150	1.25	10.75	13.00	8.00	27.0
			32	273	330	203	12.2
6	5	3	1.25	10.75	13.88	8.38	31.0
			32	273	352	213	14.1
150	125	80	1.00	12.00	14.75	9.25	45.0
			25	304	375	235	20.4
8	6	4	6.00	18.00	23.25	15.25	112.0
			152	457	591	387	50.8
200	150	200	1.00	12.00	14.75	9.25	45.0
			25	304	375	235	20.4

# Grooved End Fittings



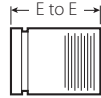
NO. 10 ELBOW



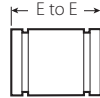
NO. 20 TEE

## Adapter Nipple

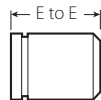
- NO. 40 Grv. x Thd.
- NO. 42 Grv. x Bev.
- NO. 43 Grv. x Grv.  
(Steel)



NO. 40 \*



NO. 43



NO. 42

Size		No. 40, 42, 43 Adapter Nipple (sw)	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg
3/4 20	1.050 26.9	3.00 76	0.3 0.1
1 25	1.315 33.7	3.00 76	0.4 0.2
1 1/4 32	1.660 42.4	4.00 102	0.8 0.4
1 1/2 40	1.900 48.3	4.00 102	0.9 0.4
2 50	2.375 60.3	4.00 102	1.2 0.5
2 1/2 65	2.875 73.0	4.00 102	1.9 0.9
3 80	3.500 88.9	4.00 102	2.5 1.1
3 1/2 90	4.000 101.6	4.00 102	2.1 0.9
4 100	4.500 114.3	6.00 152	5.5 2.5
5 125	5.563 141.3	6.00 152	7.4 3.4

Size		No. 40, 42, 43 Adapter Nipple (sw)	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg
6 150	6.625 168.3	6.00 152	9.5 4.3
8 200	8.625 219.1	6.00 152	14.2 6.4
10 250	10.750 273.0	8.00 203	27.0 12.2
12 300	12.750 323.9	8.00 203	33.0 15.0

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

### IMPORTANT NOTES:

For pump package nipples with 1 1/2"/40mm hole cut to receive Style 923 Vic-Let or Style 924 Vic-O-Well request special No. 40, 42 or 43 nipples and specify No. 40-H, 42-H or 43-H on order. NOTE: 4 - 12"/100 - 300mm diameter - 8"/200mm minimum length required.

# For use on cut grooved systems only. For 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 office.

# Grooved End Fittings



NO. 10 ELBOW



NO. 20 TEE

## Cap

**NO. 60**  
(Ductile Iron)



NO. 60

Size		No. 60 Cap	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	T Thickness Inches mm	Approx. Weight Each Lbs. kg
3/4 20	1.050 26.9	0.88 22	0.2 0.1
1 25	1.315 33.7	0.88 22	0.3 0.1
1 1/4 32	1.660 42.4	0.88 22	0.3 0.1
1 1/2 40	1.900 48.3	0.88 22	0.5 0.2
2 50	2.375 60.3	0.88 22	0.6 0.3
2 1/2 65	2.875 73.0	0.88 22	1.0 0.5
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
3 1/2 90	4.000 101.6	0.88 22	2.5 1.1
108.0 mm	4.250 108.0	1.00 25	2.3 1.0
4 100	4.500 114.3	1.00 25	2.5 1.1
4 1/2 120	5.000 127.0	1.00 25	2.5 1.1
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
5 125	5.563 141.3	1.00 25	4.6 2.1
159.0 mm	6.250 159.0	1.00 25	6.8 3.1

Size		No. 60 Cap	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	T Thickness Inches mm	Approx. Weight Each Lbs. kg
165.1 mm	6.500 165.1	1.00 25	7.3 3.3
6 150	6.625 168.3	1.00 25	6.1 2.8
8 200	8.625 219.1	1.19 30	13.1 5.9
10 250	10.750 273.0	1.25 32	21.0 9.5
12 300	12.750 323.9	1.25 32	35.6 16.2
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	*	*
14 - 24 350 - 600	<b>AGS™</b> For AGS fitting information, see publication 20.05		

**IMPORTANT NOTES:**

\* Steel dish caps available through 24"/600mm, 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, see pg. 35.

# For use on cut grooved systems only. For 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 office.

# Grooved End Fittings



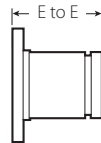
NO. 10 ELBOW



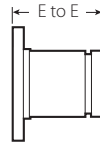
NO. 20 TEE

## Flanged Adapter Nipple

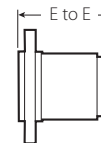
- NO. 41 ANSI Class 125 (Cast Iron)
- NO. 45F ANSI Class 150 Flat Face (Steel)
- NO. 45R ANSI Class 150 Raised Face (Steel)
- NO. 46F ANSI Class 300 Flat Face (Steel)
- NO. 46R ANSI Class 300 Raised Face (Steel)



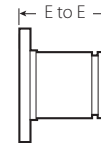
NO. 41



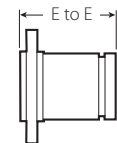
NO. 45F



NO. 45R



NO. 46F



NO. 46R

Size		No. 41 ANSI 125 Flange Adapter Nipple		No. 45F and No. 45R ANSI 150 Flange Adapter Nipple		No. 46F and No. 46R ANSI 300 Flange Adapter Nipple	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
¾ 20	1.050 26.9	3 76	—	3 76	2.3 1.0	3 76	3.3 1.5
1 25	1.315 33.7	3 76	2.5 1.1	3 76	2.7 1.2	3 76	3.9 1.8
1¼ 32	1.660 42.4	4 102	3.0 1.4	4 102	3.3 1.5	4 102	4.8 2.2
1½ 40	1.900 48.3	4 102	3.5 1.6	4 102	3.9 1.8	4 102	6.9 3.1
2 50	2.375 60.3	4 102	5.5 2.5	4 102	6.2 2.8	4 102	8.2 3.7
2½ 65	2.875 73.0	4 102	8.0 3.6	4 102	9.9 4.5	4 102	11.9 5.4
3 80	3.500 88.9	4 102	9.5 4.3	4 102	11.4 5.2	4 102	16.5 7.5
3½ 90	4.00 101.6	4 102	12.0 5.4	4 102	15.1 6.8	4 102	20.1 9.1
4 100	4.500 114.3	6 152	16.7 7.6	6 152	18.4 8.3	6 152	27.4 12.4
5 125	5.563 141.3	6 152	21.5 9.8	6 152	21.3 9.7	6 152	35.3 16.0
6 150	6.625 168.3	6 152	26.5 12.0	6 152	27.5 12.5	6 152	47.5 21.5
8 200	8.625 219.1	6 152	39.0 17.7	6 152	41.3 18.8	6 152	70.3 31.9
10 250	10.750 273.0	8 203	57.0 25.9	8 203	59.8 27.1	8 203	100.8 45.7
12 300	12.750 323.9	8 203	41.0 18.6	8 203	88.2 40.0	8 203	146.2 66.3
14 # 350	14.000 355.6	8 203	—	8 203	+	8 203	+
16 # 400	16.000 406.4	8 203	—	8 203	+	8 203	+
18 # 450	18.000 457.0	8 203	—	8 203	+	8 203	+
20 # 500	20.000 508.0	8 203	—	8 203	+	8 203	+
24 # 600	24.000 610.0	8 203	—	8 203	+	8 203	+
14 – 24 350 – 600	<b>AGS</b> For AGS fitting information, see publication 20.05						

**IMPORTANT NOTES:**

+ Contact Victaulic for details.

Flanged adapter nipples are supplied with standard rolled grooves.

Standard cut grooves or machining for rubber lining are optionally available. Contact Victaulic for details.

# For use on cut grooved systems only. For 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 office.

# Grooved End Fittings



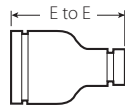
NO. 10 ELBOW



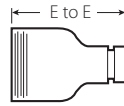
NO. 20 TEE

## Swaged Nipple

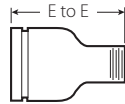
**NO. 53** Grv. x Grv.  
**NO. 54** Grv. x Thd.  
**NO. 55** Thd. x Grv.  
 (Steel)



NO. 53



NO. 55



NO. 54

Size		No. 53, 54 and 55 Swaged Nipples		
Nominal Size		E to E	Approx. Weight Each	
Inches		Inches	Lbs.	
mm		mm	kg	
2 50	x 1 25	6.50	2.0	
		165	0.9	
	1 1/4	6.50	2.0	
	32	165	0.9	
	1 1/2	6.50	2.0	
	40	165	0.9	
2 1/2 65	x 1 25	7.00	3.0	
		178	1.4	
		1 1/4	7.00	3.0
	32	178	1.4	
	1 1/2	7.00	3.0	
	40	178	1.4	
	2	7.00	3.0	
	50	178	1.4	
3 80	x 1 25	8.00	4.5	
		203	2.0	
		1 1/4	8.00	4.5
		32	203	2.0
		1 1/2	8.00	4.4
	40	203	2.0	
	2	8.00	4.5	
	50	203	2.0	
	2 1/2	8.00	4.5	
	65	203	2.0	
3 1/2 90	x 3 80	8.00	6.8	
		203	3.1	
4 100	x 1 25	9.00	7.5	
		229	3.4	
		1 1/4	9.00	7.5
		32	229	3.4
	1 1/2	9.00	7.5	
	40	229	3.4	
	2	9.00	7.5	
	50	229	3.4	
4 100	x 2 1/2 65	9.00	7.5	
		229	3.4	

Size		No. 53, 54 and 55 Swaged Nipples		
Nominal Size		E to E	Approx. Weight Each	
Inches		Inches	Lbs.	
mm		mm	kg	
4 100	x 3 80	9.00	7.5	
		229	3.4	
	3 1/2	9.00	7.5	
	90	229	3.4	
5 125	x 2 50	11.00	11.5	
		279	5.2	
	3	11.00	11.3	
	80	279	5.1	
	4	11.00	11.5	
	100	279	5.2	
6 150	x 1 25	12.00	17.0	
		305	7.7	
		1 1/4	12.00	17.0
		32	305	7.7
		1 1/2	12.00	17.2
		40	305	7.8
		2	12.00	17.4
		50	305	7.9
		2 1/2	12.00	17.4
		65	305	7.9
	3	12.00	17.4	
	80	305	7.9	
	4	12.00	17.5	
	100	305	7.9	
	4 1/2	12.00	17.5	
	120	305	7.9	
	5	12.00	17.5	
	125	305	7.9	
8 200	x 6 150		20.0	
		+	9.1	

+ Contact Victaulic for details.

# Grooved End Fittings



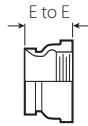
NO. 10 ELBOW



NO. 20 TEE

## Female Threaded Adapter

**NO. 80**  
(Ductile Iron \*)



NO. 80

Size		No. 80 Female Threaded Adapter	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg
3/4 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
1 1/4 32	1.660 42.4	2.31 (sw) 59	1.5 0.7
1 1/2 40	1.900 48.3	2.31 (sw) 59	1.5 0.7
2 50	2.375 60.3	2.50 64	1.4 0.6
2 1/2 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

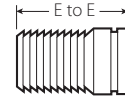
\* Ductile iron except those marked (sw) which are segmentally welded steel.

**IMPORTANT NOTE:**

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

## Hose Nipple

**NO. 48**  
(Segmentally Welded Steel)



NO. 48

Size		No. 48 Hose Nipple	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg
3/4 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
1 1/4 32	1.660 42.4	3.88 98	0.6 0.3
1 1/2 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
2 1/2 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

# Grooved End Fittings



NO. 10 ELBOW



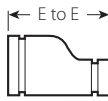
NO. 20 TEE

## Concentric/Eccentric Reducer

**NO. 50** Concentric  
**NO. 51** Eccentric  
(Ductile Iron  $\nabla$ )



NO. 50



NO. 51

Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size Inches mm		E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
1 1/4 32	x	3/4 20	+	1.9 0.9	—
		1 25	+	1.9 0.9	—
1 1/2 40	x	3/4 20	+	1.4 0.6	—
		1 25	2.50 *(sw) 64	0.8 0.4	8.50 216
		1 1/4 32	2.50 *(sw) 64	1.0 0.5	—
2 50	x	3/4 20	2.50 *(sw) 64	0.9 0.3	9.00 229
		1 25	2.50 *(sw) 64	0.7 0.3	9.00 229
		1 1/4 32	2.50 *(sw) 64	1.2 0.5	9.00 229
		1 1/2 40	2.50 *(sw) 64	1.0 0.5	9.00 229
		2 50	2.50 (sw) 64	3.9 1.8	9.50 241
2 1/2 65	x	3/4 20	+	1.3 0.6	+
		1 25	9.50 64	3.6 1.5	9.50 241
		1 1/4 32	2.50 *(sw) 64	3.3 1.5	9.50 241
		1 1/2 40	2.50 *(sw) 64	3.6 1.6	9.50 241
		2 50	2.50 (sw) 64	3.9 1.8	9.50 241
		2 1/2 65	2.50 *(sw) 64	1.8 0.8	3.50 (sw) 89
3 80	x	3/4 20	+	1.5 0.7	+
		1 25	2.50 *(sw) 64	1.3 0.6	9.50 241
		1 1/4 32	+	3.0 1.4	+
		1 1/2 40	2.50 *(sw) 64	5.1 2.3	9.50 241
		2 50	2.50 *(sw) 64	1.6 0.7	3.50 (sw) 89
		2 1/2 65	2.50 *(sw) 64	1.8 0.8	3.50 (sw) 89
		3 80	2.50 (sw) 64	2.1 1.0	—
		76.1	2.50 (sw) 64	2.1 1.0	—

Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size Inches mm		E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
3 1/2 90	x	3 80	2.50 (sw) 64	2.0 0.9	9.50 241
		4 100	3.00 *(sw) 76	3.0 1.4	13.00 330
4 100	x	1 25	+	4.6 2.1	—
		1 1/4 32	+	4.6 2.1	—
		1 1/2 40	10.00 254	6.9 3.1	10.00 254
		2 50	3.00 *(sw) 76	2.4 1.1	4.00 (sw) 102
		2 1/2 65	3.00 *(sw) 76	2.7 1.2	4.00 (sw) 102
		3 80	3.00 *(sw) 76	3.2 1.4	4.00 (sw) 102
5 125	x	2 50	11.00 279	9.0 4.1	11.00 279
		2 1/2 65	11.00 279	11.0 5.0	11.00 279
		3 80	4.00 (sw) 102	5.5 2.5	11.00 279
		4 100	3.50 (sw) 89	4.3 1.9	5.00 (sw) 127
		5 125	3.00 (sw) 76	2.9 1.3	10.00 254
6 150	x	2 50	11.00 279	9.0 4.1	11.00 279
		2 1/2 65	11.00 279	11.0 5.0	11.00 279
		3 80	4.00 (sw) 102	5.5 2.5	11.00 279
		4 100	3.50 (sw) 89	4.3 1.9	5.00 (sw) 127
		5 125	3.00 (sw) 76	2.9 1.3	10.00 254
		6 150	3.00 (sw) 76	2.9 1.3	10.00 254
		7 175	3.00 (sw) 76	2.9 1.3	10.00 254
		8 200	3.00 (sw) 76	2.9 1.3	10.00 254
8 200	x	2 1/2 65	16.00 *(sw) 406	7.9 3.6	12.00 305
		3 80	5.00 (sw) 127	9.3 4.2	12.00 305
		4 100	4.00 (sw) 102	6.5 2.9	5.50 (sw) 140
		5 125	4.00 (sw) 102	6.4 2.9	5.50 (sw) 140
		6 150	4.00 (sw) 102	6.4 2.9	5.50 (sw) 140

# Grooved End Fittings



NO. 10 ELBOW



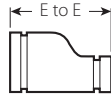
NO. 20 TEE

## Concentric/Eccentric Reducer

**NO. 50** Concentric  
**NO. 51** Eccentric  
 (Ductile Iron ‡)



NO. 50



NO. 51

Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size Inches	mm	E to E Inches	Approx. Weight Each Lbs. kg	E to E Inches	Approx. Weight Each Lbs. kg
8 200	× 4 100	5.00 (sw)	10.4	12.00	23.0
		127	4.8	305	10.4
		5.00 (sw)	11.6	12.00	23.0
		127	5.2	305	10.4
		6.00 (sw)	11.9	6.00 (sw)	24.0
		127	5.4	152	10.9
10 250	× 4 100	6.00 (sw)	19.7	13.00	32.0
		152	8.9	330	14.5
		+	34.3	+	34.6
			15.6		15.7
		6.00 (sw)	20.0	13.00	36.9
		152	9.1	330	16.7
		8.00 (sw)	22.0	7.00 (sw)	21.6
		152	10.0	178	9.8
12 300	× 4 100	+	44.0	14.00	48.0
			20.0	356	21.8
		7.00 (sw)	24.6	14.00	50.0
			11.2	356	22.7
		8.00 (sw)	52.0	14.00	53.5
		178	23.6	356	24.3
		10.00 (sw)	39.0	14.00	57.0
		178	17.7	356	25.9
# 14 350	× 6 150	13.00	65.0	13.00	60.0
		330	29.5	330	27.2
		8.00	65.0	13.00	60.0
		330	29.5	330	27.2
		10.00	66.0	13.00	65.0
		330	29.9	330	29.5
		12.00	68.0	13.00	66.0
		330	30.8	330	29.9
# 16 400	× 8 200	14.00	73.0	14.00	73.0
		356	33.1	355	33.1
		10 §	73.0	14.00	73.0
		250	33.1	355	33.1
		12.00	73.0	14.00	73.0
		356	33.1	355	33.1
		14.00	73.0	14.00	73.0
		356	33.1	355	33.1
# 18 450	× 10 250	15.00	91.0	15.00	91.0
		381	41.3	381	41.3

Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size Inches	mm	E to E Inches	Approx. Weight Each Lbs. kg	E to E Inches	Approx. Weight Each Lbs. kg
# 18 450	× 12 300	15.00	91.0	15.00	91.0
		381	41.3	381	41.3
		14.00	91.0	15.00	91.0
		350	41.3	381	41.3
		16.00	91.0	15.00	91.0
		400	41.3	381	41.3
# 20 500	× 10 250	20.00	110.0	20.00	177.0
		508	49.9	508	80.3
		12.00	120.0	20.00	120.0
		300	54.4	508	54.4
		14.00	149.0	20.00	149.0
		350	67.9	508	67.9
		16.00	120.0	20.00	120.0
		400	54.4	508	54.4
		18.00	136.0	20.00	136.0
		450	61.7	508	61.7
# 24 600	× 10 250	20.00	142.0	20.00	142.0
		508	64.4	508	64.4
		12.00	150.0	20.00	150.0
		300	68.0	508	68.0
		14.00	162.0	20.00	162.0
		350	73.5	508	73.5
		16.00	162.0	20.00	162.0
				400	73.5
		18.00	162.0	20.00	162.0
		450	73.5	508	73.5
		20.00	151.0	20.00	190.0
		500	68.5	508	86.2
14 - 24 350 - 600		<b>AGS™</b> For AGS fitting information, see publication 20.05			

+ Contact Victaulic for details.  
 \* Available with male threaded small end No. 52.  
 ‡ Ductile Iron except those marked (sw) which are segmentally welded steel.

**IMPORTANT NOTE:**

Steel eccentric reducers available through 30"/750mm, contact Victaulic for dimensions.  
 # For use on cut grooved systems only. For 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 office.  
 § cast fitting available for J.I.S. size. Contact Victaulic for details.

# Grooved End Fittings



NO. 10 ELBOW



NO. 20 TEE

## Small Threaded Reducer

**NO. 52**  
(Ductile Iron \*)



NO. 52



NO. 52F

Size	No. 52 Small Threaded Reducer			No. 52F Concentric Reducer with BSPT Female Threaded End	
	Nominal Size Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
1½ 40	1 25	2.50 64	0.8 0.4	—	—
	1¼ 32	2.50 64	0.9 0.4	—	—
2 50	¾ 20	2.50 64	0.9 0.4	—	—
	1 25	2.50 64	0.7 0.3	—	—
	1¼ 32	2.50 64	1.2 0.5	—	—
	1½ 40	2.50 64	1.0 0.5	—	—
2½ 65	1 25	+(sw)	1.0 0.5	—	—
	1¼ 32	2.50 (sw) 64	1.2 0.5	—	—
	1½ 40	2.50 (sw) 64	1.3 0.6	—	—
	2 50	3.00 76	1.4 0.6	—	—
76.1	48.3	63.5	0.8	63.5	0.77
	60	—	—	63.5	0.85
3 80	¾ 20	+(sw)	1.5 0.7	—	—
	1 25	2.50 64	1.3 0.6	—	—
	1½ 40	2.50 (sw) 64	1.5 0.7	—	—
	2 50	2.50 64	1.5 0.7	—	—
	2½ 65	2.50 64	2.4 1.1	—	—
88.9	42.4	63.5	0.9	63.5	0.82
	48.3	63.5	0.9	63.5	0.85
	60	—	—	63.5	0.89
4 100	1 25	3.00 76	2.3 1.0	—	—
	1½ 40	+(sw)	2.5 1.1	—	—
	2 50	3.00 76	2.6 1.2	—	—

Size	No. 52 Small Threaded Reducer			No. 52F Concentric Reducer with BSPT Female Threaded End	
	Nominal Size Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
4 100	2½ 65	3.00 76	2.6 1.2	—	—
	3 80	3.00 76	2.5 1.1	—	—
108	42.4	76.2	1.3	76.2	1.32
	48.3	76.2	1.3	76.2	1.35
	60	—	—	76.2	1.39
114.3	42.4	76.2	1.3	76.2	1.30
	48.3	76.2	1.3	76.2	1.34
	60	—	—	76.2	1.40
5 125	4 100	+	4.5 2.0	—	—
	133	60	—	114.3	2.17
139	60	—	—	114.3	2.26
6 150	1 25	4.00 102	5.5 2.5	—	—
	2 50	4.00 102	5.7 2.6	—	—
	2½ 65	4.00 102	5.8 2.6	—	—
	3 80	4.00 102	5.8 2.6	—	—
	4 100	+(sw)	6.5 2.9	—	—
	5 125	+(sw)	2.0 0.9	—	—
159	42.4	114.3	2.2	114.3	2.45
	48.3	114.3	2.2	114.3	2.51
	60	—	—	114.3	2.60
165.1	42.4	101.6	2.4	101.6	2.90
	48.3	101.6	2.6	101.6	2.95
	60	—	—	101.6	3.00
8 200	2 50	16.00 406	1.5 0.7	—	—
	2½ 65	16.00 406	1.7 0.8	—	—

+ Contact Victaulic for details.

\* Ductile iron except those marked (sw) which are segmentally welded steel.

**IMPORTANT NOTE:**

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





## Grooved End Fittings



NO. 10 ELBOW



NO. 20 TEE

### WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

### 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.

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