



No. 20 Tee



No. 10 Elbow

## 1.0 PRODUCT DESCRIPTION

### Available Sizes

- $\frac{3}{4}$  – 24"/DN20 – DN600

### Pipe Material

- Carbon steel

### Maximum Working Pressure

- Pressure ratings for Victaulic standard fittings conform to the ratings of Victaulic Style 77 couplings (refer to [publication 06.04](#) for more information).

### Application

- Connects pipe, provides change in direction and adapts sizes or components
- Supplied with Victaulic Original Groove System (OGS) grooves
- Exclusively for use with Victaulic couplings, valves, accessories and pipe which feature ends formed with the Victaulic OGS groove profile

### NOTES

- For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information.
- These fittings are not intended for use with Victaulic plain end couplings. Intended for use only in grooved piping systems. When connecting wafer or lug type butterfly valves directly to Victaulic fittings using Style 741 or Style 743 flange adapters, be sure to check disc clearance dimensions with I.D. dimension of fitting.

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

## 2.0 CERTIFICATION/LISTINGS



EN 10311  
CPR (EU)  
No. 305/2011

### NOTES

- When supplied as “hot dip galvanized” the following fittings are UL Classified in accordance with ANSI/NSF 61 and for use on cold +86°F/+30°C potable water service and ANSI/NSF 372: No. 10 90° Elbow, No. 11 45° Elbow, No. 12 22 ½° Elbow, No. 13 11 ¼° Elbow, No. 100 90° Long Radius Elbow, No. 110 45° Long Radius Elbow, No. 20 Tee, No. 25 Tee with Grooved Branch, No. 30 45° Lateral, No. 60 Cap, No. 50 Concentric Reducers, No. 51 Eccentric Reducers.
- The following Victaulic fittings are VdS approved: No.10 90° Elbow, No.11 45° Elbow, No.20 Tee and No.60 Cap.
- The following Victaulic fittings are LPCB approved: No.10 90° Elbow, No.11 45° Elbow, No.12 22 ½° Elbow, No.13 11 ¼° Elbow, No.30 45° Lateral, No.30-R Reducing Lateral, No.100 Long Radius Elbow, No.110 Long Radius Elbow, No.20 Tee, No.35 Cross, No.60 Cap, No.25 Reducing Tee, No.33 True Wye, No.50 Concentric Reducer, No.51 Eccentric Reducer and No.29M Tee with Threaded Branch.
- The following Victaulic fittings are FM approved: No.10 90° Elbow, No.11 45° Elbow, No.12 22 ½° Elbow, No.13 11 ¼° Elbow, No.30 45° Lateral, No.100 Long Radius Elbow, No.20 Tee, No.35 Cross, No.60 Cap, No.25 Reducing Tee and No.50 Concentric Reducer.
- Download [publication 10.01](#) for Fire Protection Certifications/Listings Reference Guide to view which sizes of the fittings listed above have active fire protection approvals.

## 3.0 SPECIFICATIONS – MATERIAL

### Fitting: (specify choice)

- Standard: Ductile iron conforming to ASTM A536, Grade 65-45-12.
- Optional: Segmentally welded carbon steel, standard wall, conforming to ASTM A53, Type E or S, Gr. B

### Nipples: (specify choice)

- ¾ – 6"/DN20 – DN150: Carbon steel, Schedule 40, conforming to ASTM A53, Type E or S, Gr. B
- 8 – 12"/DN200 – DN300: Carbon steel, standard wall, conforming to ASTM A53, Type E or S, Gr. B

### Flanged Adapter Nipples: (specify choice)

- Class 125 Flange: Cast iron conforming to ANSI B16.1
- Class 150 Flange: Carbon steel conforming to ANSI B16.5, raised or flat face
- Class 300 Flange: Carbon steel conforming to ANSI B16.5, raised or flat face

### Fitting Coating: (specify choice)

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

### Flanged Adapter Nipple Coating: (specify choice)

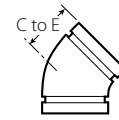
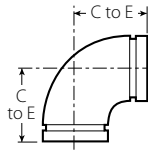
- Standard: None (Unfinished)
- Optional: Orange enamel, hot dip galvanized and others

## 4.0 DIMENSIONS

### Elbows

No. 10 90° Elbow

No. 11 45° Elbow



Size	No. 10 90° Elbow			No. 11 45° Elbow	
	Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm
¾ DN20	1.050 26.9	2.25 57	0.5 0.2	1.50 38	0.5 0.2
1 DN25	1.315 33.7	2.25 57	0.6 0.2	1.75 44	0.5 0.2
1¼ DN32	1.660 42.4	2.75 70	0.8 0.4	1.75 44	0.6 0.3
1½ DN40	1.900 48.3	2.75 70	1.0 0.5	1.75 44	0.8 0.4
2 DN50	2.375 60.3	3.25 83	1.8 0.8	2.00 51	1.3 0.6
2½	2.875 73.0	3.75 95	3.0 1.3	2.25 57	2.1 1.0
DN65	3.000 76.1	3.75 95	3.1 1.4	2.25 57	2.3 1.0
3 DN80	3.500 88.9	4.25 108	4.5 2.0	2.50 64	3.0 1.3
3½ DN90	4.000 101.6	4.50 114	5.6 2.5	2.75 70	4.0 1.8
	4.250 108.0	5.00 127	6.2 2.8	3.00 76	4.6 2.1
4 DN100	4.500 114.3	5.00 127	6.8 3.1	3.00 76	5.2 2.4
4½	5.000 127.0	5.00 127	8.6 3.9	3.13 79	5.9 2.7
	5.250 133.0	5.50 140	10.3 4.7	3.25 83	6.6 3.0
DN125	5.500 139.7	5.50 140	9.9 4.5	3.25 83	7.2 3.2
5	5.563 141.3	5.50 140	10.1 4.6	3.25 83	7.4 3.4
	6.000 152.4	6.50 (sw) 165	13.3 6.0	3.50 (sw) 89	9.5 4.3
	6.250 159.0	6.50 165	13.0 5.9	3.25 83	9.5 4.3
	6.500 165.1	6.50 165	15.5 7.0	3.50 89	9.7 4.4
6 DN150	6.625 168.3	6.50 165	15.3 6.9	3.50 89	10.2 4.6
200A	216.3	7.75 197	34.7 15.7	4.25 108	14.4 6.5

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(sw) = Carbon Steel Segmentally Welded

#### NOTE

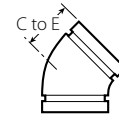
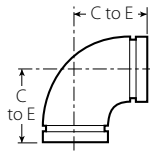
- All fittings are ductile iron unless otherwise noted with an (sw).

## 4.0 DIMENSIONS (CONTINUED)

### Elbows

No. 10 90° Elbow

No. 11 45° Elbow



Size	Actual Outside Diameter	No. 10 90° Elbow		No. 11 45° Elbow	
		C to E	Approx. Weight (Each)	C to E	Approx. Weight (Each)
Nominal inches DN	inches mm	inches mm	lb kg	inches mm	lb kg
8	8.625	7.75	27.5	4.25	18.6
DN200	219.1	197	12.5	108	8.4
250A	267.4	9.00	67.8	4.75	28.1
		229	30.7	121	12.7
10	10.750	9.00	50.0	4.75	37.5
DN250	273.0	229	22.7	121	17.0
300A	318.5	10.00	73.5	5.25	41.3
		254	33.3	133	18.7
12	12.750	10.00	79.3	5.25	45.0
DN300	323.9	254	36.0	133	20.4
14 <sup>1</sup>	14.000	14.00	146.0	5.80	78.0
DN350	355.6	356	66.2	147	35.4
	14.843	14.88	168.0	6.15	82.0
	377.0	378	76.2	156	37.2
16 <sup>1</sup>	16.000	16.00	190.0	6.63	88.2
DN400	406.4	406	86.2	168	40.0
	16.772	16.75	216.0	6.95	98.1
	426.0	425	98.0	177	44.5
18 <sup>1</sup>	18.000	18.00	241.0	7.46	123.0
DN450	457.2	457	109.3	189	55.8
	18.898	18.90	291.0	7.83	123.2
	480.0	480	132.0	199	55.9
20 <sup>1</sup>	20.000	20.00	296.0	8.28	151.0
DN500	508.0	508	134.3	210	68.5
	20.866	20.88	355.0	8.64	179.0
	530.0	530	161.0	219	81.2
22	22.000	25.00	386.0	12.11	210.0
DN550	558.8	635	175.1	308	95.3
24 <sup>1</sup>	24.000	24.00	475.0	9.94	240.0
DN600	609.6	610	215.5	252	108.9
	24.803	24.75	545.0	10.27	275.4
	630.0	629	247.2	261	124.9
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a>				

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(sw) = Carbon Steel Segmentally Welded

#### NOTE

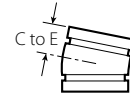
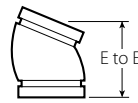
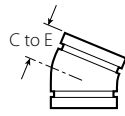
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## 4.0 DIMENSIONS (CONTINUED)

### Elbows

No. 12 22 1/2° Elbow

No. 13 11 1/4° Elbow



Size		No. 12 22 1/2° Elbow		No. 12G (GSNK) 22 1/2° Elbow		No. 13 11 1/4° Elbow	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
3/4 DN20	1.050 26.9	1.63 (sw) 41	0.4 0.2	NA	NA	1.38 (sw) 35	0.4 0.2
1 DN25	1.315 33.7	1.63 (sw) 41	0.5 0.2	3.25 83	0.6 0.3	1.38 (sw) 35	0.4 0.2
1 1/4 DN32	1.660 42.4	1.75 44	0.8 0.4	NA	NA	1.38 35	0.6 0.3
1 1/2 DN40	1.900 48.3	1.75 44	1.0 0.4	NA	NA	1.38 35	0.6 0.3
2 DN50	2.375 60.3	1.88 48	1.2 0.5	3.75 95	1.4 0.6	1.38 35	1.0 0.4
2 1/2	2.875 73.0	2.00 (sw) 51	2.4 1.1	4.00 102	2.0 0.9	1.50 38	1.6 0.7
DN65	3.000 76.1	2.25 57	2.5 1.1	NA	NA	1.50 38	1.7 0.8
3 DN80	3.500 88.9	2.25 (sw) 57	3.1 1.4	4.50 114	3.1 1.4	1.50 38	2.0 0.9
3 1/2 DN90	4.000 101.6	2.50 (sw) 64	4.0 1.8	NA	NA	1.75 (sw) 44	2.8 1.3
	4.250 108.0	2.88 (sw) 73	+	NA	NA	1.75 (sw) 44	+
4 DN100	4.500 114.3	2.88 73	4.8 2.2	5.25 133	4.8 2.2	1.75 44	3.3 1.5
4 1/2	5.000 127.0	2.88 (sw) 73	+	NA	NA	1.88 (sw) 48	+
	5.250 133.0	2.88 (sw) 73	+	NA	NA	2.00 (sw) 51	+
DN125	5.500 139.7	2.88 73	6.3 2.9	NA	NA	2.00 51	4.6 2.1
5	5.563 141.3	2.88 (sw) 73	7.8 3.5	NA	NA	2.00 (sw) 51	5.0 2.3
	6.000 152.4	3.13 (sw) 79	+	NA	NA	2.00 (sw) 51	+
	6.250 159.0	3.13 (sw) 79	+	NA	NA	2.00 (sw) 51	+
	6.500 165.1	3.13 79	10.4 4.7	NA	NA	2.00 51	7.1 3.2
6 DN150	6.625 168.3	3.13 (sw) 79	12.2 5.5	6.25 159	12.2 5.5	2.00 51	6.4 2.9

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(sw) = Carbon Steel Segmentally Welded

NA = Not Available

"+" = Contact Victaulic for details

#### NOTE

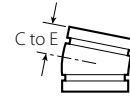
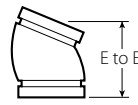
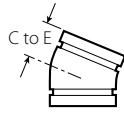
- All fittings are ductile iron unless otherwise noted with an (sw).

4.0 DIMENSIONS (CONTINUED)

Elbows

No. 12 22 1/2° Elbow

No. 13 11 1/4° Elbow



Size		No. 12 22 1/2° Elbow		No. 12G (GSNK) 22 1/2° Elbow		No. 13 11 1/4° Elbow	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
8 DN200	8.625 219.1	3.88 (sw) 98	20.0 9.1	7.75 197	18.1 8.2	2.00 51	8.2 3.7
10 DN250	10.750 273.0	4.38 111	30.0 13.6	NA	NA	2.13 54	11.8 5.3
12 DN300	12.750 323.9	4.88 124	40.0 18.1	NA	NA	2.25 57	29.3 13.3
14 <sup>1</sup> DN350	14.000 355.6	5.00 (sw) 127	46.0 20.9	NA	NA	3.50 (sw) 89	32.0 14.5
16 <sup>1</sup> DN400	16.000 406.4	5.00 (sw) 127	58.0 26.3	NA	NA	4.00 (sw) 102	42.0 19.1
18 <sup>1</sup> DN450	18.000 457.2	5.50 (sw) 140	65.0 29.5	NA	NA	4.50 (sw) 114	53.0 24.0
20 <sup>1</sup> DN500	20.000 508.0	6.00 (sw) 152	78.6 35.7	NA	NA	5.00 (sw) 127	65.0 29.5
22 <sup>1</sup> DN550	22.000 558.8	6.50 (sw) 165	125.0 56.7	NA	NA	5.50 (sw) 140	80.0 36.3
24 <sup>1</sup> DN600	24.000 609.6	7.00 (sw) 178	140.0 63.5	NA	NA	6.00 (sw) 152	94.5 42.9
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a> <b>AGS™</b>						

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(sw) = Carbon Steel Segmentally Welded

NA = Not Available

"+" = Contact Victaulic for details

NOTE

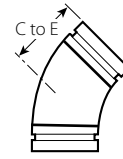
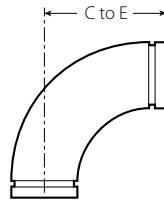
- All fittings are ductile iron unless otherwise noted with an (sw).

4.0 DIMENSIONS (CONTINUED)

Elbows

No. 100 90° Long Radius Elbow

No. 110 45° Long Radius Elbow



Size		No. 100 90° 1 ½D Long Radius Elbow		No. 110 45° 1 ½D Long Radius Elbow	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
¾ DN20	1.050 26.9	2.50 (s) 64	0.4 0.2	1.75 (s) 44	0.4 0.2
1 DN25	1.315 33.7	2.88 (s) 73	0.8 0.4	2.25 (s) 57	0.6 0.3
1¼ DN32	1.660 42.4	3.25 (s) 83	1.1 0.5	2.38 (s) 60	0.9 0.4
1½ DN40	1.900 48.3	3.63 (s) 92	2.2 1.0	2.50 (s) 64	1.1 0.5
2 DN50	2.375 60.3	4.38 111	2.6 1.2	2.75 70	1.9 0.9
2½	2.875 73.0	5.13 130	3.4 1.5	3.13 (s) 79	3.0 1.4
3 DN80	3.500 88.9	5.88 149	6.0 2.7	3.38 86	3.8 1.7
3½ DN90	4.000 101.6	6.63 (s) 168	8.7 3.9	3.63 (s) 92	5.6 2.5
4 DN100	4.500 114.3	7.50 191	10.8 4.9	4.00 102	7.4 3.4
5	5.563 141.3	9.25 235	18.0 8.2	4.25 108	14.8 6.7
	6.500 165.1	10.75 273	25.8 11.7	5.50 140	15.8 7.2
6 DN150	6.625 168.3	10.75 273	30.4 13.8	5.38 137	16.7 7.6
8 DN200	8.625 219.1	14.25 362	68.5 31.1	7.25 184	36.0 16.3
10 DN250	10.750 273.0	15.00 381	81.6 37.0	6.25 159	40.1 18.2
12 DN300	12.750 323.9	18.00 457	138.0 62.6	7.50 191	69.6 31.6
14¹ DN350	14.000 355.6	21.00 533	222.7 101.0	8.75 222	112.4 51.0
16¹ DN400	16.000 406.4	24.00 610	302.0 137.0	10.00 254	158.7 72.0
18¹ DN450	18.000 457.2	27.00 686	421.8 191.3	11.25 286	224.9 102.0
20¹ DN500	20.000 508.0	30.00 762	498.2 226.0	12.50 318	246.9 112.0
22¹ DN550	22.000 558.8	36.00 (s) 914	400.0 181.4	16.50 (s) 419	205.0 93.0
24¹ DN600	24.000 609.6	36.00 914	765.0 347.0	15.00 381	370.4 168.0
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a>				



¹ For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

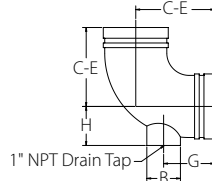
NOTE

- All fittings are ductile iron unless otherwise noted with an (s).

## 4.1 DIMENSIONS

### No. 10-DR

90° Drain Elbow



Size		No. 10-DR 90° Drain Elbow					Weight	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	ØB inches mm	G inches mm	H inches mm	Drain Tap NPT inches mm	Approx. (Each) lb kg	
2½	2.875 73.0	3.75 95	1.81 46	2.75 70	1.68 43	1 25	3.5 1.6	
3 DN80	3.500 88.9	4.25 108	1.81 46	2.75 70	2.13 54	1 25	4.8 2.2	
4 DN100	4.500 114.3	5.00 127	1.81 46	2.75 70	2.63 67	1 25	7.8 3.5	
6 DN150	6.625 168.3	6.50 165	1.81 46	2.75 70	3.65 93	1 25	18.1 8.2	
8 DN200	8.625 219.1	7.75 197	1.81 46	2.75 70	4.50 114	1 25	29.6 13.4	

**NOTE**

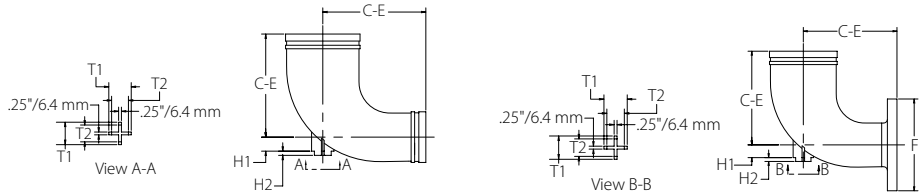
- ISO 7-R thread options are available; contact Victaulic.

## 4.2 DIMENSIONS

### Reducing Base Support Elbow

#### No. R-10G

#### No. R-10F



Size		No. R-10G 90° Reducing Base Support Elbow Groove x Groove							No. R-10F 90° Reducing Base Support Elbow Groove x Class 150 Flange*						
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	H1 inches mm	H2 inches mm	T1 inches mm	T2 inches mm	Approx. Weight (Each) lb kg	C to E inches mm	ØF inches mm	H1 inches mm	H2 inches mm	T1 inches mm	T2 inches mm	Approx. Weight (Each) lb kg	
6 x 4 DN150 x DN100	6.625 x 4.500	9.19	1.25	0.38	2.00	1.50	33.0	9.19	9.00	1.25	0.38	2.00	1.50	46.0	
	168.3 x 114.3	233	32	10	51	38	15.0	233	229	32	10	51	38	20.9	
	5	5.563	9.00	1.50	0.38	2.00	1.50	37.0	9.00	10.00	1.50	0.38	2.00	1.50	52.0
8 x 6 DN200 x DN150	8.625 x 6.625	10.50	2.13	0.38	2.00	1.50	51.0	10.50	11.00	2.13	0.38	2.00	1.50	70.0	
	219.1 x 168.3	267	54	10	51	38	23.1	267	279	54	10	51	38	31.8	
10 x 8 DN250 x DN200	10.750 x 8.625	12.00	2.38	0.38	2.00	1.50	88.0	12.00	13.50	2.38	0.38	2.00	1.50	118.0	
	273.0 x 219.1	305	60	10	51	38	39.9	305	343	60	10	51	38	53.5	

\* Contact Victaulic for additional flange end options.

For long radius base support elbow options, please refer to [publication 07.13](#).

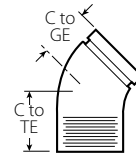
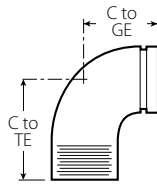


### 4.3 DIMENSIONS

#### Adapter Elbow

**No. 18** 90° Adapter Elbow

**No. 19** 45° Adapter Elbow



Size		No. 18 90° Adapter Elbow Groove x Male Thread <sup>1</sup>			No. 19 45° Adapter Elbow Groove x Male Thread <sup>1</sup>		
Nominal inches DN	Actual Outside Diameter inches mm	C to GE inches mm	C to TE inches mm	Approx. Weight (Each) inches mm	C to GE inches mm	C to TE inches mm	Approx. Weight (Each) lb kg
3/4 DN20	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 DN25	1.315 33.7	2.25 57	2.25 57	0.6 0.3	NA	NA	NA
1 1/4 DN32	1.660 42.4	2.75 70	2.75 70	1.2 0.5	NA	NA	NA
1 1/2 DN40	1.900 48.3	2.75 70	2.75 70	1.4 0.7	1.75 44	1.75 44	0.9 0.4
2 DN50	2.375 60.3	3.25 83	4.25 108	2.5 1.1	NA	NA	NA
2 1/2	2.875 73.0	3.75 95	3.75 95	3.7 1.7	2.25 57	2.25 57	2.3 1.0
3 DN80	3.500 88.9	4.25 108	6.00 152	6.6 3.0	2.50 64	4.25 108	5.0 2.3
4 DN100	4.500 114.3	5.00 127	7.25 184	10.0 4.5	NA	NA	NA
6 DN150	6.625 168.3	6.50 165	6.50 165	19.0 8.6	3.50 89	3.50 89	10.8 4.9

<sup>1</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

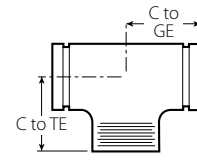
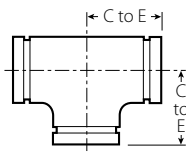
NA = Not Available

## 4.4 DIMENSIONS

### Tees, Crosses and True Wyes

#### No. 20

#### No. 29M



Size		No. 20 Tee		No. 29M Tee Groove x Male Thread <sup>2</sup> Branch		
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	C to GE inches mm	C to TE lb kg	Approx. Weight (Each) inches mm
¾ DN20	1.050 26.9	2.25 57	0.8 0.4	2.25 (sw) 57	2.25 (sw) 57	0.6 0.3
1 DN25	1.315 33.7	2.25 57	0.9 0.4	2.25 (sw) 57	2.25 (sw) 57	0.9 0.4
1¼ DN32	1.660 42.4	2.75 70	1.5 0.7	2.75 70	2.75 70	1.6 0.7
1½ DN40	1.900 48.3	2.75 70	1.7 0.8	2.75 70	2.75 70	1.8 0.8
2 DN50	2.375 60.3	3.25 83	2.8 1.3	3.25 83	4.25 108	3.5 1.6
2½	2.875 73.0	3.75 95	4.8 2.2	3.75 (sw) 95	3.75 (sw) 95	4.3 2.0
DN65	3.000 76.1	3.75 95	5.3 2.4	3.75 (sw) 95	3.75 (sw) 95	5.2 2.4
3 DN80	3.500 88.9	4.25 108	6.4 2.9	4.25 (sw) 108	4.25 (sw) 108	7.2 3.3
3½ DN90	4.000 101.6	4.50 (sw) 114	7.9 3.6	4.50 (sw) 114	4.50 (sw) 114	7.9 3.6
	4.250 108.0	5.00 127	12.0 5.4	5.00 (sw) 127	5.00 (sw) 127	15.5 7.0
4 DN100	4.500 114.3	5.00 127	11.3 5.1	5.00 127	7.25 184	16.3 7.4
4½	5.000 127.0	5.25 (sw) 133	15.0 6.8	5.25 (sw) 133	5.25 (sw) 133	15.0 6.8
	5.250 133.0	5.50 140	16.2 7.3	5.50 (sw) 140	5.50 (sw) 140	17.8 8.1
DN125	5.500 139.7	5.50 140	17.8 8.1	5.50 (sw) 140	5.50 (sw) 140	17.8 8.1
5	5.563 141.3	5.50 140	17.8 8.1	5.50 (sw) 140	5.50 (sw) 140	24.0 10.9
	6.000 152.4	6.50 (sw) 165	+	6.50 (sw) 165	6.50 (sw) 165	25.7 11.7
	6.250 159.0	6.50 (sw) 165	+	6.50 (sw) 165	6.50 (sw) 165	27.1 12.3
	6.500 165.1	6.50 165	25.0 11.3	6.50 (sw) 165	6.50 (sw) 165	28.0 12.7
6 DN150	6.625 168.3	6.50 165	25.7 11.7	6.50 (sw) 165	6.50 (sw) 165	33.0 15.0
200A	216.3	7.75 197	43.3 19.6	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(sw) = Carbon Steel Segmentally Welded

NA = Not Available

"+" = Contact Victaulic for details

#### NOTES

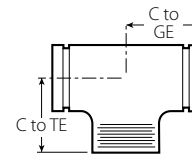
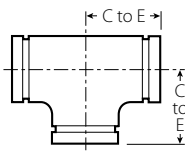
- All fittings are ductile iron unless otherwise noted with an (sw).


### 4.3 DIMENSIONS (CONTINUED)

#### Tees, Crosses and True Wyes

#### No. 20

#### No. 29M



Size		No. 20 Tee		No. 29M Tee Groove x Male Thread <sup>2</sup> Branch		
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	C to GE inches mm	C to TE lb kg	Approx. Weight (Each) inches mm
8 DN200	8.625 219.1	7.75 197	49.5 22.5	7.75 (sw) 197	7.75 (sw) 197	47.6 21.6
250A	267.4	9.00 229	66.0 29.9	NA	NA	NA
10 DN250	10.750 273.0	9.00 229	72.4 32.8	9.00 (sw) 229	9.00 (sw) 229	99.0 44.9
300A	318.5	10.00 254	95.0 43.1	NA	NA	NA
12 DN300	12.750 323.9	10.00 254	107.2 48.6	10.00 (sw) 254	10.00 (sw) 254	133.0 60.3
14 <sup>1</sup> DN350	14.000 355.6	11.00 (sw) 279	150.0 68.0	11.00 (sw) 279	11.00 (sw) 279	+
	14.843 377.0	11.50 292	159.3 72.3	NA	NA	NA
16 <sup>1</sup> DN400	16.000 406.4	12.00 (sw) 305	188.0 85.3	12.00 (sw) 305	12.00 (sw) 305	+
	16.772 426.0	13.00 330	211.6 96.0	NA	NA	NA
18 <sup>1</sup> DN450	18.000 457.2	15.50 (sw) 394	200.0 90.7	15.50 (sw) 394	15.50 (sw) 394	+
	18.898 480.0	14.57 370	211.6 96.0	NA	NA	NA
20 <sup>1</sup> DN500	20.000 508.0	17.25 (sw) 438	339.0 153.8	17.25 (sw) 438	17.25 (sw) 438	+
	20.866 530.0	15.39 391	382.0 173.3	NA	NA	NA
22 <sup>1</sup> DN550	22.000 558.8	19.00 (sw) 483	468.0 212.3	19.00 (sw) 483	19.00 (sw) 483	+
24 <sup>1</sup> DN600	24.000 609.6	20.00 (sw) 508	592.0 268.5	20.00 (sw) 508	20.00 (sw) 508	+
	24.803 630.0	17.37 441	502.0 227.7	NA	NA	NA
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a>					
						

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(sw) = Carbon Steel Segmentally Welded

NA = Not Available

"+" = Contact Victaulic for details

#### NOTES

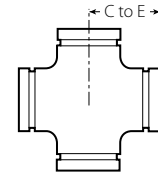
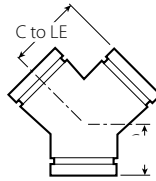
- All fittings are ductile iron unless otherwise noted with an (sw).

## 4.4 DIMENSIONS

### Tees, Crosses and True Wyes

No. 33

No. 35



Size		No. 33 True Wye			No. 35 Cross	
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
3/4 DN20	1.050 26.9	2.25 (sw) 57	2.00 (sw) 51	0.8 0.4	2.25 (sw) 57	0.9 0.4
1 DN25	1.315 33.7	2.25 (sw) 57	2.25 (sw) 57	1.1 0.5	2.25 (sw) 57	1.3 0.6
1 1/4 DN32	1.660 42.4	2.75 (sw) 70	2.50 (sw) 64	1.5 0.7	2.75 (sw) 70	2.1 1.0
1 1/2 DN40	1.900 48.3	2.75 (sw) 70	2.75 (sw) 70	1.8 0.8	2.75 (sw) 70	2.5 1.1
2 DN50	2.375 60.3	3.25 (sw) 83	2.75 (sw) 70	2.5 1.1	3.25 83	4.0 1.8
2 1/2	2.875 73.0	3.75 (sw) 95	3.00 (sw) 76	5.1 2.3	3.75 95	6.1 2.8
DN65	3.000 76.1	3.75 (sw) 95	3.25 (sw) 83	5.5 2.5	3.75 95	7.8 3.5
3 DN80	3.500 88.9	4.25 (sw) 108	3.25 (sw) 83	6.1 2.8	4.25 108	11.8 5.4
3 1/2 DN90	4.000 101.6	4.50 (sw) 114	3.50 (sw) 89	9.6 4.4	4.50 (sw) 114	11.5 5.2
	4.250 108.0	5.00 (sw) 127	3.75 (sw) 95	9.7 4.4	5.00 127	18.4 8.3
4 DN100	4.500 114.3	5.00 127	3.75 95	10.0 4.5	5.00 127	15.8 7.2
4 1/2	5.000 127.0	5.25 (sw) 133	4.00 (sw) 102	12.5 5.7	5.25 (sw) 133	18.5 8.4
	5.250 133.0	5.50 (sw) 140	4.00 (sw) 102	13.8 6.2	5.50 (sw) 140	19.0 8.6
DN125	5.500 139.7	5.50 (sw) 140	4.00 (sw) 102	15.0 6.8	5.50 (sw) 140	19.5 8.8
5	5.563 141.3	5.50 (sw) 140	4.00 (sw) 102	15.0 6.8	5.50 140	28.6 13.0
	6.000 152.4	6.50 (sw) 165	4.50 (sw) 114	17.5 7.9	6.50 (sw) 165	22.0 10.0
	6.250 159.0	6.50 (sw) 165	4.50 (sw) 114	19.9 9.0	6.50 165	41.4 18.8
	6.500 165.1	6.50 (sw) 165	4.50 (sw) 114	21.5 9.8	6.50 165	44.0 20.0
6 DN150	6.625 168.3	6.50 (sw) 165	4.50 (sw) 114	22.3 10.1	6.50 165	46.0 20.9
8 DN200	8.625 219.1	7.75 (sw) 197	6.00 (sw) 152	36.0 16.3	7.75 (sw) 197	48.0 21.8

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(sw) = Carbon Steel Segmentally Welded

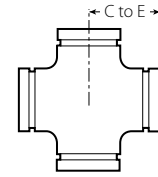
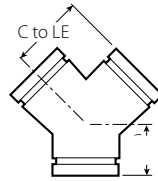
**NOTE**

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Tees, Crosses and True Wyes

No. 33  
No. 35



Size		No. 33 True Wye			No. 35 Cross	
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
10 DN250	10.750 273.0	9.00 (sw) 229	6.50 (sw) 165	54.5 24.7	9.00 (sw) 229	70.0 31.8
12 DN300	12.750 323.9	10.00 (sw) 254	7.00 (sw) 178	80.0 36.3	10.00 (sw) 254	110.0 49.9
14 <sup>1</sup> DN350	14.000 355.6	11.00 (sw) 279	7.50 (sw) 191	134.2 60.9	11.00 (sw) 279	198.0 89.8
16 <sup>1</sup> DN400	16.000 406.4	12.00 (sw) 305	8.00 (sw) 203	167.0 75.7	12.00 (sw) 305	250.0 113.4
18 <sup>1</sup> DN450	18.000 457.2	15.50 (sw) 394	8.50 (sw) 216	180.0 81.6	15.50 (sw) 394	350.0 158.8
20 <sup>1</sup> DN500	20.000 508.0	17.25 (sw) 438	9.00 (sw) 229	200.0 90.7	17.25 (sw) 438	452.0 205.0
22 <sup>1</sup> DN550	22.000 558.8	19.00 (sw) 483	9.50 (sw) 241	225.0 102.1	19.00 (sw) 483	624.0 283.0
24 <sup>1</sup> DN600	24.000 609.6	20.00 (sw) 508	10.00 (sw) 254	250.0 113.4	20.00 (sw) 508	795.0 360.6
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a>					

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.  
(sw) = Carbon Steel Segmentally Welded

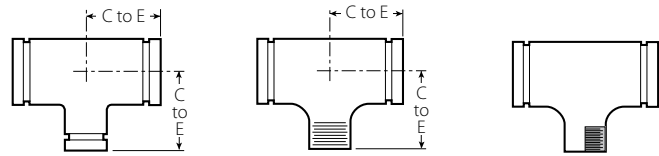
**NOTE**

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch								
Nominal inches DN			Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg						
1 DN25	x	1 DN25	x	3/4 DN20	1.315 33.7	x	1.315 33.7	x	1.050 26.9	2.25 (sw) 57	0.8 0.4	2.25 (sw) 57	0.8 0.4	NA	NA
1 1/4 DN32	x	1 1/4 DN32	x	3/4 DN20	1.660 42.4	x	1.660 42.4	x	1.050 26.9	2.75 (sw) 70	1.0 0.5	2.75 (sw) 70	1.0 0.5	NA	NA
				1 DN25			1.315 33.7		1.315 26.9	2.75 (sw) 70	1.3 0.6	2.75 (sw) 70	1.5 0.7	NA	NA
1 1/2 DN40	x	1 1/2 DN40	x	3/4 DN20	1.900 48.3	x	1.900 48.3	x	1.050 26.9	2.75 (sw) 70	1.5 0.7	2.75 (sw) 70	1.5 0.7	NA	NA
				1 DN25			1.315 33.7		1.315 26.9	2.75 (sw) 70	1.5 0.7	2.75 (sw) 70	1.8 0.8	NA	NA
				1 1/4 DN32			1.660 42.4		1.660 26.9	2.75 (sw) 70	2.1 1.0	2.75 (sw) 70	1.7 0.8	NA	NA
2 DN50	x	2 DN50	x	3/4 DN20	2.375 60.3	x	2.375 60.3	x	1.050 26.9	3.25 83	2.5 1.1	3.25 83	2.5 1.1	NA	NA
				1 DN25			1.315 33.7		1.315 26.9	3.25 83	2.7 1.2	3.25 83	2.7 1.2	NA	NA
				1 1/4 DN32			1.660 42.4		1.660 26.9	3.25 (sw) 83	2.3 1.0	3.25 (sw) 83	2.3 1.0	NA	NA
				1 1/2 DN40			1.900 48.3		1.900 26.9	3.25 83	3.2 1.5	3.25 83	3.2 1.5	NA	NA
2 1/2	x	2 1/2	x	3/4 DN20	2.875 73.0	x	2.875 73.0	x	1.050 26.9	3.75 (sw) 95	3.9 1.8	3.75 (sw) 95	3.0 1.4	NA	NA
				1 DN25			1.315 33.7		1.315 26.9	3.75 95	3.8 1.7	3.75 95	3.8 1.7	NA	NA
				1 1/4 DN32			1.660 42.4		1.660 26.9	3.75 95	4.0 1.8	3.75 95	4.0 1.8	NA	NA
				1 1/2 DN40			1.900 48.3		1.900 26.9	3.75 95	4.8 2.2	3.75 95	4.8 2.2	NA	NA
				2 DN50			2.375 60.3		2.375 26.9	3.75 95	4.5 2.0	3.75 95	4.5 2.0	NA	NA
DN65	x	DN65	x	3/4 DN20	3.000 76.1	x	3.000 76.1	x	1.050 26.9	3.75 (sw) 95	+	3.75 (sw) 95	+	NA	NA
				1 DN25			1.315 33.7		1.315 26.9	3.75 (sw) 95	+	3.75 (sw) 95	+	NA	NA
				1 1/4 DN32			1.660 42.4		1.660 26.9	3.75 (sw) 95	+	3.75 (sw) 95	+	NA	NA
				1 1/2 DN40			1.900 48.3		1.900 26.9	3.75 (sw) 95	+	3.75 (sw) 95	+	NA	NA
				2 DN50			2.375 60.3		2.375 26.9	3.75 95	4.6 2.1	3.75 95	4.6 2.1	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(sw) = Carbon Steel Segmentally Welded

NA = Not Available

"+" = Contact Victaulic for details

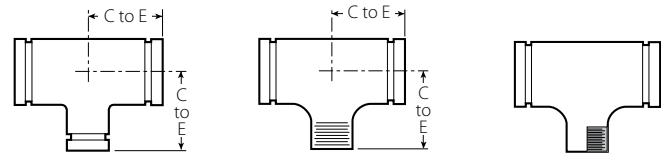
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size				No. 25 Grooved Branch Reducing Tee			No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch						
Nominal inches DN	Actual Outside Diameter			C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg						
	inches	mm	mm												
3 DN80	x	3 DN80	x	¾ DN20	3.500 88.9	x	3.500 88.9	x	1.050 26.9	4.25 (sw) 108	5.7 2.6	4.25 (sw) 108	5.7 2.6	NA	NA
				1 DN25			1.315 33.7		4.25 108	6.0 2.7	4.25 108	6.0 2.7	NA	NA	
				1¼ DN32			1.660 42.4		4.25 108	6.0 2.7	4.25 108	6.3 2.9	NA	NA	
				1½ DN40			1.900 48.3		4.25 108	6.6 3.0	4.25 108	6.6 3.0	NA	NA	
				2 DN50			2.375 60.3		4.25 108	6.2 2.8	4.25 108	6.2 2.8	4.25 108	6.2 2.8	
				2½			2.875 73.0		4.25 108	6.6 3.0	4.25 108	6.6 3.0	NA	NA	
							3.000 76.1		4.25 108	6.8 3.1	4.25 108	11.6 5.3	NA	NA	
							DN65								
3½ DN90	x	3½ DN90	x	¾ DN20	4.000 101.6	x	4.000 101.6	x	1.050 26.9	4.50 (sw) 114	+	4.50 (sw) 114	+	NA	NA
				1 DN25			1.315 33.7		4.50 (sw) 114	+	4.50 (sw) 114	+	NA	NA	
				1¼ DN32			1.660 42.4		4.50 (sw) 114	+	4.50 (sw) 114	+	NA	NA	
				1½ DN40			1.900 48.3		4.50 (sw) 114	+	4.50 (sw) 114	+	NA	NA	
				2 DN50			2.375 60.3		4.50 (sw) 114	+	4.50 (sw) 114	+	NA	NA	
				2½			2.875 73.0		4.50 (sw) 114	+	4.50 (sw) 114	+	NA	NA	
							3.500 88.9		4.50 (sw) 114	+	4.50 (sw) 114	+	NA	NA	
							DN80								
	x		x	1.050 26.9	4.250 108.0	x	4.250 108.0	x	1.050 26.9	5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+
				1.315 33.7			5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	
				1.660 42.4			5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	
				1.900 48.3			5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	
				2.375 60.3			5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	
				3.000 76.1			5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	5.00 (sw) 127	+	
				3.500 88.9			5.00 127	9.5 4.3	5.00 (sw) 127	+	NA	NA	NA	NA	

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(sw) = Carbon Steel Segmentally Welded

NA = Not Available

"+" = Contact Victaulic for details

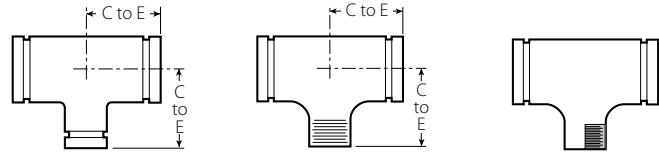
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

## 4.4 DIMENSIONS (CONTINUED)

### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch		
Nominal inches DN	Actual Outside Diameter inches mm		C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	
4 x 4 x 3/4 DN100 x DN100 x DN20	4.500 x 4.500 x 1.050 114.3 x 114.3 x 26.9	1.315	5.00	8.0	5.00 (sw)	9.3	NA	NA	
		DN25	33.7	127	3.6	127	4.2	NA	NA
		1 1/4	1.660	5.00 (sw)	8.9	5.00 (sw)	10.0	NA	NA
		DN32	42.4	127	4.0	127	4.5	NA	NA
		1 1/2	1.900	5.00	10.2	5.00	10.2	NA	NA
		DN40	48.3	127	4.6	127	4.6	NA	NA
		2	2.375	5.00	11.2	5.00	11.2	NA	NA
		DN50	60.3	127	5.1	127	5.1	NA	NA
		2 1/2	2.875	5.00	11.5	5.00	11.5	NA	NA
		DN65	73.0	127	5.2	127	5.2	NA	NA
5.250 x 5.250 x 1.050 133.0 x 133.0 x 26.9	5.250 x 5.250 x 1.050 133.0 x 133.0 x 26.9	1.315	5.50 (sw)	+	5.50 (sw)	+	5.50 (sw)	+	
		DN25	33.7	140	+	5.50 (sw)	+	5.50 (sw)	+
		1.660	5.50 (sw)	+	5.50 (sw)	+	5.50 (sw)	+	
		DN32	42.4	140	+	5.50 (sw)	+	5.50 (sw)	+
		1.900	5.50 (sw)	+	5.50 (sw)	+	5.50 (sw)	+	
		DN40	48.3	140	+	5.50 (sw)	+	5.50 (sw)	+
		2.375	5.50 (sw)	+	5.50 (sw)	+	NA	NA	
		DN50	60.3	140	+	5.50 (sw)	+	5.50 (sw)	+
3.500 x 5.250 x 1.050 88.9 x 133.0 x 26.9	3.500 x 5.250 x 1.050 88.9 x 133.0 x 26.9	76.1	5.50 (sw)	+	5.50 (sw)	+	5.50 (sw)	+	
		DN65	140	+	5.50 (sw)	+	5.50 (sw)	+	
		3.500	5.50 (sw)	+	5.50 (sw)	+	5.50 (sw)	+	
		DN80	88.9	140	+	5.50 (sw)	+	5.50 (sw)	+
4.250 x 5.250 x 1.050 108.0 x 133.0 x 26.9	4.250 x 5.250 x 1.050 108.0 x 133.0 x 26.9	108.0	5.50	12.9	5.50 (sw)	+	NA	NA	
		DN80	140	5.9	140	+	NA	NA	

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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#### NOTES

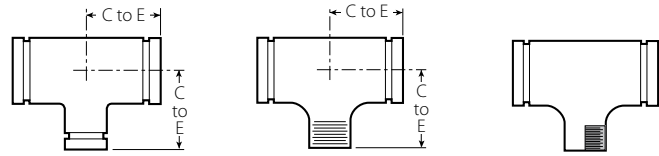
- All fittings are ductile iron unless otherwise noted with an (sw).



## 4.4 DIMENSIONS (CONTINUED)

### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee			No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch							
Nominal inches DN		Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg							
DN125	x DN125	x 3/4 DN20	5.500	139.7	1.050	26.9	5.50 (sw)	140	+	5.50 (sw)	140	+	NA	NA	
			1	DN25	1.315	33.7	5.50 (sw)	140	+	5.50 (sw)	140	+	NA	NA	
			1 1/4	DN32	1.660	42.4	5.50 (sw)	140	+	5.50 (sw)	140	+	NA	NA	
			1 1/2	DN40	1.900	48.3	5.50 (sw)	140	+	5.50 (sw)	140	+	NA	NA	
			2	DN50	2.375	60.3	5.50	140	13.5	6.1	5.50 (sw)	140	+	NA	NA
			DN65	3.000	76.1	5.50 (sw)	140	+	5.50 (sw)	140	+	NA	NA		
			3	DN80	3.500	88.9	5.50	140	13.8	6.3	5.50 (sw)	140	+	NA	NA
			4	DN100	4.250	108.0	5.50 (sw)	140	+	5.50 (sw)	140	+	NA	NA	
			5	DN125	5.000	127.0	5.50 (sw)	140	14.4	6.5	5.50 (sw)	140	+	NA	NA
			5	x 5	x 3/4 DN20	5.563	141.3	1.050	26.9	5.50 (sw)	140	+	5.50 (sw)	140	+
1	DN25	1.315	33.7	5.50 (sw)	140	14.0	6.4	5.50 (sw)	140	14.0	6.4	NA	NA		
1 1/4	DN32	1.660	42.4	5.50 (sw)	140	+	5.50 (sw)	140	+	NA	NA				
1 1/2	DN40	1.900	48.3	5.50 (sw)	140	14.3	6.5	5.50 (sw)	140	14.5	6.6	NA	NA		
2	DN50	2.375	60.3	5.50 (sw)	140	14.5	6.6	5.50 (sw)	140	14.5	6.6	NA	NA		
2 1/2	DN65	2.875	73.0	5.50	140	15.5	7.0	5.50	140	15.8	7.2	NA	NA		
3	DN80	3.500	88.9	5.50	140	12.6	5.7	5.50 (sw)	140	17.0	7.7	NA	NA		
4	DN100	4.500	114.3	5.50	140	16.0	7.3	5.50 (sw)	140	16.0	7.3	NA	NA		

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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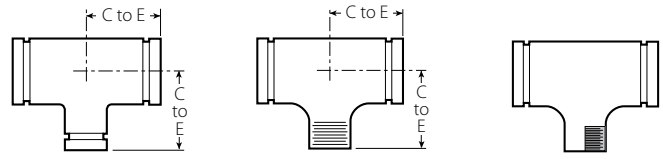
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size				No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch	
Nominal inches DN	Actual Outside Diameter inches mm			C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
6.000 152.4	x	6.000 152.4	1.050 26.9	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			1.315 33.7	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			1.660 42.4	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			1.900 48.3	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			2.375 60.3	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			3.000 76.1	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			3.500 88.9	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			4.250 108.0	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			4.500 114.3	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA
			5.250 133.0	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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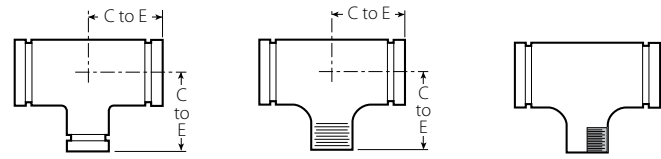
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size				No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch		
Nominal inches DN	Actual Outside Diameter			C to E	Approx. Weight (Each)	C to E	Approx. Weight (Each)	C to E	Approx. Weight (Each)	
	inches	mm		inches mm	lb kg	inches mm	lb kg	inches mm	lb kg	
6.250 159.0	x	6.250 159.0	x	1.050 26.9	6.50 (sw) 165	+	6.50 (sw) 165	+	6.50 (sw) 165	+
				1.315 33.7	6.50 (sw) 165	+	6.50 (sw) 165	+	6.50 (sw) 165	+
				1.660 42.4	6.50 (sw) 165	+	6.50 (sw) 165	+	6.50 (sw) 165	+
				1.900 48.3	6.50 (sw) 165	+	6.50 (sw) 165	+	6.50 (sw) 165	+
				2.375 60.3	6.50 (sw) 165	+	6.50 (sw) 165	+	6.50 (sw) 165	+
				3.000 76.1	6.50 (sw) 165	+	6.50 (sw) 165	+	6.50 (sw) 165	+
				3.500 88.9	6.50 165	18.5 8.4	6.50 (sw) 165	+	NA	NA
				4.250 108.0	6.50 165	18.5 8.4	6.50 (sw) 165	+	NA	NA
				4.500 114.3	6.50 165	12.1 5.5	6.50 (sw) 165	+	NA	NA
				5.250 133.0	6.50 165	19.0 8.6	6.50 (sw) 165	+	NA	NA
				6.500 165.1	x	6.500 165.1	x	1.050 26.9	6.50 (sw) 165	+
1.315 33.7	6.50 (sw) 165	10.8 4.9	6.50 (sw) 165					10.8 4.9	NA	NA
1.660 42.4	6.50 (sw) 165	11.0 5.0	6.50 (sw) 165					11.0 5.0	NA	NA
1.900 48.3	6.50 (sw) 165	11.3 5.1	6.50 (sw) 165					11.3 5.1	NA	NA
2.375 60.3	6.50 165	18.9 8.6	6.50 165					18.9 8.6	NA	NA
3.000 76.1	6.50 165	20.0 9.1	6.50 (sw) 165					+	NA	NA
3.500 88.9	6.50 165	24.3 11.0	6.50 (sw) 165					+	NA	NA
4.500 114.3	6.50 165	23.8 10.8	6.50 (sw) 165					+	NA	NA
5.500 139.7	6.50 165	26.0 11.8	6.50 (sw) 165					+	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

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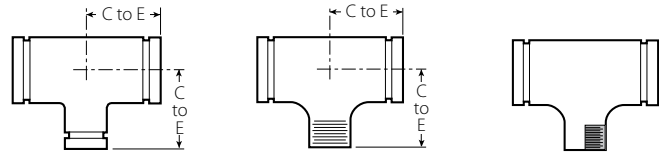
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch			
Nominal inches DN	Actual Outside Diameter inches mm		C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg		
6 x 6 x ¾ DN150 x DN150 x DN20	6.625 x 6.625 x 1.050 168.3 x 168.3 x 26.9	1	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA		
		DN25	1.315 33.7	6.50 (sw) 165	23.0 10.4	6.50 (sw) 165	23.0 10.4	NA	NA	
		1¼	1.660 42.4	6.50 (sw) 165	25.0 11.3	6.50 (sw) 165	25.0 11.3	NA	NA	
		1½	1.900 48.3	6.50 (sw) 165	25.0 11.3	6.50 (sw) 165	25.0 11.3	NA	NA	
		2	2.375 60.3	6.50 165	22.8 10.3	6.50 165	22.8 10.3	NA	NA	
		2½	2.875 73.0	6.50 165	23.8 10.8	6.50 165	25.2 11.4	NA	NA	
		DN65	3.000 76.1	6.50 (sw) 165	+	6.50 165	+	NA	NA	
		3	3.500 88.9	6.50 165	24.8 11.2	6.50 165	24.9 11.3	NA	NA	
		4	4.500 114.3	6.50 165	24.8 11.2	6.50 165	22.1 10.0	NA	NA	
		DN100	5.500 139.7	6.50 (sw) 165	+	6.50 (sw) 165	+	NA	NA	
		5	5.563 141.3	6.50 165	26.7 12.1	6.50 (sw) 165	26.7 12.1	NA	NA	
		200A x 200A x 65A	216.3 x 216.3 x 76.3	100A	7.75 (sw) 197	+	NA	NA	NA	NA
				165A	7.75 197	50.0 22.7	NA	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

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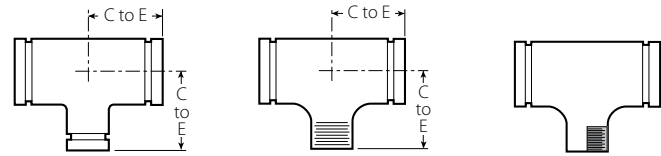
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch						
Nominal inches DN			C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg					
8 DN200	x	8 DN200	8.625 219.1	8.625 219.1	1.050 26.9	7.75 (sw) 197	+	7.75 (sw) 197	+	7.75 (sw) 197	+		
		¾ DN20			1.315 33.7	7.75 (sw) 197	+	7.75 (sw) 197	+	7.80 (sw) 198	+		
		1 DN25			1.660 42.4	7.75 (sw) 197	+	7.75 (sw) 197	+	7.80 (sw) 198	+		
		1¼ DN32			1.900 48.3	7.75 (sw) 197	33.0 15.0	7.75 (sw) 197	37.7 17.1	7.80 (sw) 198	+		
		1½ DN40			2.375 60.3	7.75 (sw) 197	33.5 15.2	7.75 (sw) 197	33.5 15.2	NA	NA		
		2 DN50			2.875 73.0	7.75 197	37.3 16.9	7.75 (sw) 197	34.0 15.4	NA	NA		
		2½			3.000 76.1	7.75 (sw) 197	37.5 17.0	NA	NA	7.80 (sw) 198	+		
		DN65			3.500 88.9	7.75 197	37.5 17.0	7.75 (sw) 197	33.6 15.2	NA	NA		
		3 DN80			4.250 108.0	7.75 197	48.9 22.2	NA	NA	NA	NA		
		4 DN100			4.500 114.3	7.75 197	42.9 19.5	7.75 (sw) 197	35.0 15.9	NA	NA		
					5.250 133.0	9.02 229	54.6 24.8	7.75 (sw) 197	+	NA	NA		
		DN125			5.500 139.7	7.75 (sw) 197	+	NA	NA	NA	NA		
		5			5.563 141.3	7.75 197	37.0 16.8	7.75 (sw) 197	37.0 16.8	NA	NA		
					6.250 159.0	7.75 197	51.6 23.4	7.75 (sw) 197	+	NA	NA		
					6.500 165.1	7.75 197	43.2 19.6	7.75 (sw) 197	+	NA	NA		
		6 DN150			6.625 168.3	7.75 197	48.5 22.0	7.75 (sw) 197	43.0 19.5	NA	NA		
					10.528 267.4	10.528 267.4	6.500 165.1	9.00 229	68.4 31.0	NA	NA	NA	NA
		250A	x	250A	x	250A	4 DN100	9.00 (sw) 229	+	NA	NA	NA	NA
				125A		139.8	9.00 (sw) 229	+	NA	NA	NA	NA	
				200A		216.3	9.00 229	82.0 37.2	NA	NA	NA	NA	

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

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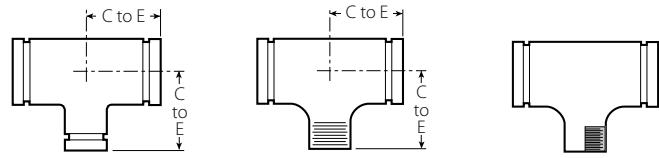
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch		
Nominal inches DN	Actual Outside Diameter inches mm		C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	
10 x 10 x DN250 x DN250 x 3/4 1 1 1/4 1 1/2 2 2 1/2  DN65 3 DN80  4 DN100   DN125  5  6 DN150 8 DN200	10.750	10.750	1.050	9.00 (sw) 229	+	9.00 (sw) 229	+	NA	NA
	1.315			9.00 (sw) 229	+	9.00 (sw) 229	+	NA	NA
	1.660			9.00 (sw) 229	+	9.00 (sw) 229	+	NA	NA
	1.900			9.00 (sw) 229	57.0 25.9	9.00 (sw) 229	57.0 25.9	NA	NA
	2.375			9.00 (sw) 229	62.0 28.1	9.00 (sw) 229	65.0 29.5	9.00 (sw) 229	+
	2.875			9.00 229	62.5 28.3	9.00 (sw) 229	53.0 24.0	NA	NA
	3.000			9.00 (sw) 229	71.2 32.3	NA	NA	NA	NA
	3.500			9.00 229	62.1 28.2	9.00 (sw) 229	60.0 27.2	NA	NA
	4.250			9.02 229	77.6 35.2	9.00 (sw) 229	+	NA	NA
	4.500			9.00 229	61.0 27.7	9.00 (sw) 229	61.0 27.7	NA	NA
	5.250			9.02 229	84.2 38.2	9.00 (sw) 229	+	NA	NA
	5.500			9.00 (sw) 229	+	9.00 (sw) 229	+	NA	NA
	6.250			9.02 229	84.9 38.5	9.00 (sw) 229	+	NA	NA
	5.563			9.00 (sw) 229	52.0 23.6	9.00 (sw) 229	52.0 23.6	NA	NA
	6.250			9.00 229	61.0 27.7	9.00 (sw) 229	+	NA	NA
6.500			9.00 229	64.2 29.1	9.00 (sw) 229	+	NA	NA	
6.625			9.00 229	59.0 26.8	9.00 (sw) 229	60.0 27.2	NA	NA	
8.625			9.00 229	64.7 29.3	9.00 (sw) 229	64.7 29.3	NA	NA	
300A x 300A x 150A 200A 250A	318.5	318.5	165.2	10.00 (sw) 254	+	NA	NA	NA	NA
			216.3	10.00 (sw) 254	+	NA	NA	NA	NA
			267.4	10.00 254	111.0 50.3	NA	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(sw) = Carbon Steel Segmentally Welded

NA = Not Available

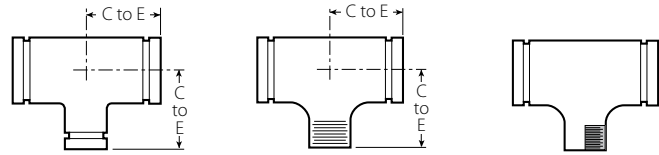
"+" = Contact Victaulic for details

#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

Reducing Tee  
 No. 25  
 No. 29T  
 No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch								
Nominal inches DN	Actual Outside Diameter inches mm		C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg							
12 DN300	x	12 DN300	x	¾ DN20	12.750 323.9	x	12.750 323.9	x	1.050 26.9	10.00 (sw) 254	+	NA	NA	10.00 (sw) 254	+
		1 DN25			1.315 33.7				10.00 (sw) 254	70.0 31.8		10.00 (sw) 254	77.0	10.00 (sw) 254	+
		1¼ DN32			1.660 42.4				10.00 (sw) 254	+		10.00 (sw) 254	+	10.00 (sw) 254	+
		1½ DN40			1.900 48.3				10.00 (sw) 254	+		10.00 254	+	10.00 254	+
		2 DN50			2.375 60.3				10.00 (sw) 254	78.0 35.4		10.00 (sw) 254	78.0 35.4	10.00 (sw) 254	+
		2½			2.875 73.0				10.00 (sw) 254	80.0 36.3		10.00 (sw) 254	80.0 36.3	NA	NA
		DN65			3.000 76.1				10.00 (sw) 254	+		10.00 (sw) 254	+	10.00 (sw) 254	+
		3 DN80			3.500 88.9				10.00 (sw) 254	80.0 36.3		10.00 (sw) 254	86.5 39.2	NA	NA
		4 DN100			4.250 108.0				10.00 254	+		10.00 (sw) 254	+	NA	NA
		5 DN125			4.500 114.3				10.00 (sw) 254	86.7 39.3		10.00 (sw) 254	77.0 34.9	NA	NA
		6 DN150			5.250 133.0				10.00 254	130.0 59.0		10.00 (sw) 254	+	NA	NA
		8 DN200			5.500 139.7				10.00 (sw) 254	81.8 37.1		10.00 (sw) 254	+	NA	NA
		10 DN250			5.563 141.3				10.00 (sw) 254	75.0 34.0		10.00 (sw) 254	75.0 34.0	NA	NA
					6.250 159.0				10.00 254	125.6 57.0		10.00 (sw) 254	+	NA	NA
					6.500 165.1				10.00 (sw) 254	+		10.00 (sw) 254	+	NA	NA
					6.625 168.3				10.00 254	88.5 40.2		10.00 (sw) 254	75.0 34.0	NA	NA
					8.625 219.1				10.00 254	80.0 36.3		10.00 (sw) 254	80.0 36.3	NA	NA
					10.750 273.0				10.00 254	123.5 56.0		10.00 (sw) 254	84.0 38.1	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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NA = Not Available

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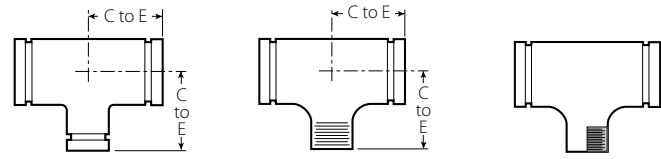
**NOTES**

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch	
Nominal inches DN	Actual Outside Diameter inches mm		C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
14 <sup>1</sup> x 14 x 4 DN350 DN350 DN100	14.000 x 14.000 x 4.500 355.6 355.6 114.3	6	11.00 (sw)	102.0	11.00 (sw)	102.0	NA	NA
		DN150	11.00 (sw)	108.2	11.00 (sw)	108.2	NA	NA
		8	11.00 (sw)	112.0	11.00 (sw)	112.0	NA	NA
		DN200	11.00 (sw)	120.0	11.00 (sw)	120.0	NA	NA
		10	11.00 (sw)	129.1	11.00 (sw)	129.1	NA	NA
		DN250	11.00 (sw)	129.1	11.00 (sw)	129.1	NA	NA
14 <sup>1</sup> x 14 x 4 DN350 DN350 DN100	14.843 x 14.843 x 4.500 377.0 377.0 114.3	6	11.00	142.4	NA	NA	NA	NA
		DN150	11.00	145.5	NA	NA	NA	NA
		8	11.00	166.0	NA	NA	NA	NA
		DN200	11.00	149.9	NA	NA	NA	NA
		10	11.00	68.0	NA	NA	NA	NA
		DN250	11.00	144.6	NA	NA	NA	NA
16 <sup>1</sup> x 16 x 4 DN400 DN400 DN100	16 x 16 x 4.500 DN400 DN400 114.3	6	12.00 (sw)	130.0	12.00 (sw)	130.0	NA	NA
		DN150	12.00 (sw)	133.5	12.00 (sw)	133.5	NA	NA
		8	12.00 (sw)	145.0	12.00 (sw)	145.0	NA	NA
		DN200	12.00 (sw)	149.5	12.00 (sw)	149.5	NA	NA
		10	12.00 (sw)	67.8	12.00 (sw)	67.8	NA	NA
		DN250	12.00 (sw)	154.0	12.00 (sw)	154.0	NA	NA
16 <sup>1</sup> x 16 x 4 DN400 DN400 DN100	16.772 x 16.772 x 4.500 426.0 426.0 114.3	6	12.00 (sw)	167.0	NA	NA	NA	NA
		DN150	12.00 (sw)	167.0	NA	NA	NA	NA
		8	12.83	189.6	NA	NA	NA	NA
		DN200	12.83	213.9	NA	NA	NA	NA
		10	12.83	97.0	NA	NA	NA	NA
		DN250	12.83	224.9	NA	NA	NA	NA
16 <sup>1</sup> x 16 x 4 DN400 DN400 DN100	16.772 x 16.772 x 4.500 426.0 426.0 114.3	12	12.83	102.0	NA	NA	NA	NA
		DN300	12.83	102.0	NA	NA	NA	NA
		14	12.83	227.1	NA	NA	NA	NA
		DN350	12.83	227.1	NA	NA	NA	NA
		14	12.83	103.0	NA	NA	NA	NA
		DN350	12.83	103.0	NA	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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#### NOTES

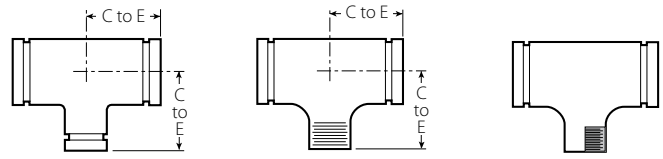
- All fittings are ductile iron unless otherwise noted with an (sw).



### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

No. 25  
No. 29T  
No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch	
Nominal inches DN	Actual Outside Diameter inches mm		C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
18 <sup>1</sup> x 18 x 4 DN450 x DN450 x DN100	18.000 x 18.000 x 4.500 457.2 x 457.2 x 114.3		15.50 (sw) 394	194.0 88.0	15.50 (sw) 394	194.0 88.0	NA	NA
			15.50 (sw) 394	200.0 90.7	15.50 (sw) 394	200.0 90.7	NA	NA
			15.50 (sw) 394	202.6 91.9	15.50 (sw) 394	202.0 91.6	NA	NA
			15.50 (sw) 394	212.0 96.2	15.50 (sw) 394	212.0 96.2	NA	NA
			15.50 (sw) 394	222.6 101.0	15.50 (sw) 394	222.6 101.0	NA	NA
			15.50 (sw) 394	230.1 104.4	NA	NA	NA	NA
			15.50 (sw) 394	247.6 112.3	NA	NA	NA	NA
	18.898 x 18.898 x 4.250 480.0 x 480.0 x 108.0		14.75 375	282.4 128.1	NA	NA	NA	NA
			14.75 375	283.0 128.4	NA	NA	NA	NA
			14.75 375	283.3 128.5	NA	NA	NA	NA
			14.75 375	285.1 129.3	NA	NA	NA	NA
			14.75 375	293.8 133.2	NA	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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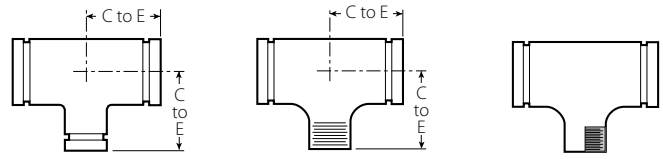
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

- No. 25
- No. 29T
- No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch				
Nominal inches DN		Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg			
20 <sup>1</sup> DN500	x 20 DN500	x 6 DN150	20.000 508.0	x 20.000 508.0	x 6.625 168.3	17.25 (sw) 438	240.0 108.9	17.25 (sw) 438	240.0 108.9	NA	NA
		8 DN200			8.625 219.1	17.25 (sw) 438	244.0 110.7	17.25 (sw) 438	244.0 110.7	NA	NA
		10 DN250			10.750 273.0	17.25 (sw) 438	256.0 116.1	17.25 (sw) 438	256.0 116.1	NA	NA
		12 DN300			12.750 323.9	17.25 (sw) 438	264.3 119.9	17.25 (sw) 438	264.0 119.7	NA	NA
		14 DN350			14.000 355.6	17.25 (sw) 438	275.0 124.7	NA	NA	NA	NA
		16 DN400			16.000 406.4	17.25 (sw) 438	288.6 130.9	NA	NA	NA	NA
		18 DN450			18.000 457.2	17.25 (sw) 438	297.0 134.7	NA	NA	NA	NA
			20.866 530.0	x 20.866 530.0	x 6.250 159.0	17.25 438	368.2 167.0	NA	NA	NA	NA
					8.625 219.1	17.25 438	401.3 182.0	NA	NA	NA	NA
					10.750 273.0	17.25 438	379.2 172.0	NA	NA	NA	NA
					12.750 323.9	17.25 438	401.2 182.0	NA	NA	NA	NA
					14.843 377.0	17.25 438	383.6 174.0	NA	NA	NA	NA
					16.772 426.0	17.25 438	401.2 182.0	NA	NA	NA	NA
					18.898 480.0	17.25 438	399.2 181.1	NA	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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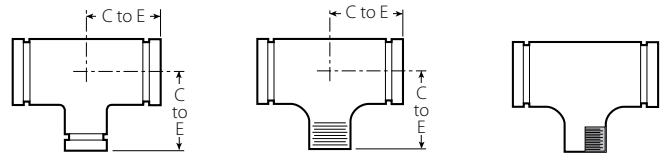
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

### 4.4 DIMENSIONS (CONTINUED)

#### Reducing Tee

- No. 25
- No. 29T
- No. 29F



Size			No. 25 Grooved Branch Reducing Tee		No. 29T Reducing Tee Groove x Male Thread <sup>2</sup> Branch		No. 29F <sup>2</sup> Reducing Tee Groove x Female Thread <sup>2</sup> Branch	
Nominal inches DN	Actual Outside Diameter inches mm		C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
24 <sup>1</sup> x 24 x 8 DN600 x DN600 x DN200	24.000 x 24.000 x 8.625 609.6 x 609.6 x 219.1		20.00 (sw) 508	340.0 154.2	20.00 (sw) 508	340.0 154.2	NA	NA
			20.00 (sw) 508	343.9 156.0	20.00 (sw) 508	343.9 156.0	NA	NA
			20.00 (sw) 508	352.8 160.0	20.00 (sw) 508	352.8 160.0	NA	NA
			20.00 508	+ -	NA	NA	NA	NA
			20.00 (sw) 508	378.0 171.5	NA	NA	NA	NA
			20.00 508	+ -	NA	NA	NA	NA
			20.00 (sw) 508	400.0 181.4	NA	NA	NA	NA
	24.803 x 24.803 x 6.250 630.0 x 630.0 x 159.0		20.00 508	559.2 253.6	NA	NA	NA	NA
			20.00 508	559.2 253.6	NA	NA	NA	NA
			20.00 508	562.2 255.0	NA	NA	NA	NA
			20.00 508	562.2 255.0	NA	NA	NA	NA
			20.00 508	586.4 266.0	NA	NA	NA	NA
			20.00 508	579.8 263.0	NA	NA	NA	NA
			20.00 508	568.8 258.0	NA	NA	NA	NA
			20.00 508	574.3 260.5	NA	NA	NA	NA
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a>							



<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

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NA = Not Available

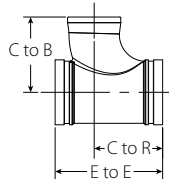
"+" = Contact Victaulic for details

#### NOTES

- All fittings are ductile iron unless otherwise noted with an (sw).

4.5 DIMENSIONS (CONTINUED)

Pitcher Tee  
No. 29P



Size				No. 29P Pitcher Tee Groove x Female Thread Branch									
Nominal inches DN		Actual Outside Diameter inches mm		C to R inches mm	E to E inches mm	C to B inches mm	Approx. Weight (Each) lb kg						
4	x	4	x	2 1/2	4.500	x	4.500	x	2.875	4.75	7.50	5.25	10.1
DN100		DN100			114.3		114.3		73.0	121	191	133	4.6

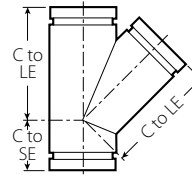
NOTE

- All fittings are ductile iron unless otherwise noted with an (sw).

## 4.6 DIMENSIONS

### 45° Lateral

#### No. 30



Size	No. 30 45° Lateral			
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg
¾ DN20	1.050 26.9	4.50 (sw) 114	2.00 (sw) 51	0.9 0.4
1 DN25	1.315 33.7	5.00 (sw) 127	2.25 (sw) 57	1.7 0.8
1¼ DN32	1.660 42.4	5.75 (sw) 146	2.50 (sw) 64	2.5 1.1
1½ DN40	1.900 48.3	6.25 (sw) 159	2.75 (sw) 70	3.5 1.6
2 DN50	2.375 60.3	7.00 (sw) 178	2.75 (sw) 70	5.1 2.3
2½	2.875 73.0	7.75 (sw) 197	3.00 (sw) 76	9.0 4.1
DN65	3.000 76.1	8.50 (sw) 216	3.25 (sw) 83	9.8 4.4
3 DN80	3.500 88.9	8.50 216	3.25 83	10.3 4.6
3½ DN90	4.000 101.6	10.00 (sw) 254	3.50 (sw) 89	22.0 10.0
	4.250 108.0	10.50 (sw) 267	3.75 (sw) 95	22.1 10.0
4 DN100	4.500 114.3	10.50 267	3.75 95	17.9 8.1
4½	5.000 127.0	12.50 (sw) 318	4.00 (sw) 102	23.8 10.8
	5.250 133.0	12.50 (sw) 318	4.00 (sw) 102	25.3 11.5
DN125	5.500 139.7	12.50 (sw) 318	4.00 (sw) 102	26.8 12.1
5	5.563 141.3	12.50 (sw) 318	4.00 (sw) 102	29.8 13.5
	6.000 152.4	14.00 (sw) 356	4.50 (sw) 114	33.8 15.3
	6.250 159.0	14.00 (sw) 356	4.50 (sw) 114	36.8 16.7
	6.500 165.1	14.00 (sw) 356	4.50 (sw) 114	43.6 19.8
6 DN150	6.625 168.3	14.00 356	4.50 114	43.6 19.8

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(sw) = Carbon Steel Segmentally Welded

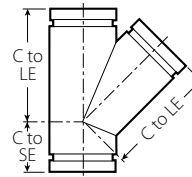
**NOTE**

- All fittings are ductile iron unless otherwise noted with an (sw).

4.6 DIMENSIONS (CONTINUED)

45° Lateral

No. 30



Size		No. 30 45° Lateral		
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg
8 DN200	8.625 219.1	18.00 (sw) 457	6.00 (sw) 152	73.0 33.1
10 DN250	10.750 273.0	20.50 (sw) 521	6.50 (sw) 165	105.0 47.6
12 DN300	12.750 323.9	23.00 (sw) 584	7.00 (sw) 178	165.0 74.8
14 <sup>1</sup> DN350	14.000 355.6	26.50 (sw) 673	7.50 (sw) 191	276.0 125.2
16 <sup>1</sup> DN400	16.000 406.4	29.00 (sw) 737	8.00 (sw) 203	344.2 156.1
18 <sup>1</sup> DN450	18.000 457.2	32.00 (sw) 813	8.50 (sw) 216	429.0 194.6
20 <sup>1</sup> DN500	20.000 508.0	35.00 (sw) 889	9.00 (sw) 229	500.0 226.8
22 <sup>1</sup> DN550	22.000 558.8	38.00 (sw) 965	9.50 (sw) 241	610.0 276.7
24 <sup>1</sup> DN600	24.000 609.6	40.00 (sw) 1016	10.00 (sw) 254	715.0 324.3

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(sw) = Carbon Steel Segmentally Welded

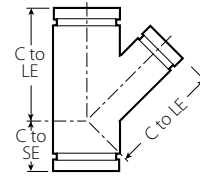
NOTE

- All fittings are ductile iron unless otherwise noted with an (sw).

## 4.7 DIMENSIONS

### 45° Reducing Lateral

#### No. 30-R SWS



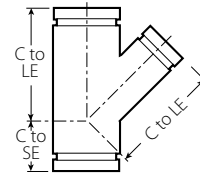
Size				No. 30-R SWS 45° Reducing Lateral (sw)								
Nominal inches DN				Actual Outside Diameter inches DN			C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg			
3 DN80	x	3 DN80	x	2 DN50	3.500 88.9	x	3.500 88.9	x	2.375 60.3	8.50 216	3.25 83	9.8 4.4
									2.875 73.0	8.50 216	3.25 83	9.8 4.4
4 DN100	x	4 DN100	x	2 DN50	4.500 114.3	x	4.500 114.3	x	2.375 60.3	10.50 267	3.75 95	10.0 4.5
									2.875 73.0	10.50 267	3.75 95	10.0 4.5
				3 DN80					3.500 88.9	10.50 267	3.75 95	18.3 8.3
									4.500 114.3	12.50 318	4.00 102	27.0 12.2
5	x	5	x	2 DN50	5	x	5	x	2.375 60.3	12.50 318	4.00 102	24.0 10.9
									3.500 88.9	12.50 318	4.00 102	27.0 12.2
				4 DN100					4.500 114.3	12.50 318	4.00 102	26.5 12.0
									5.563 141.3	14.00 356	4.50 114	37.0 16.8
6 DN150	x	6 DN150	x	3 DN80	6.625 168.3	x	6.625 168.3	x	3.500 88.9	14.00 356	4.50 114	37.0 16.8
									4.500 114.3	14.00 356	4.50 114	36.0 16.3
				4 DN100					5.563 141.3	14.00 356	4.50 114	44.7 20.3
									6.625 168.3	18.00 457	6.00 152	58.0 26.3
8 DN200	x	8 DN200	x	3 DN80	8.625 219.1	x	8.625 219.1	x	3.500 88.9	18.00 457	6.00 152	58.0 26.3
									4.500 114.3	18.00 457	6.00 152	62.0 28.1
				4 DN100					5.563 141.3	18.00 457	6.00 152	75.5 34.2
									6.625 168.3	18.00 457	6.00 152	82.0 37.2
10 DN250	x	10 DN250	x	4 DN100	10.750 273.0	x	10.750 273.0	x	4.500 114.3	20.50 521	6.50 165	104.8 47.5
									5.563 141.3	20.50 521	6.50 165	105.0 47.6
				5 DN150					6.625 168.3	20.50 521	6.50 165	105.8 48.0
									8.625 219.1	20.50 521	6.50 165	118.0 53.5
12 DN300	x	12 DN300	x	4 DN100	12.750 323.9	x	12.750 323.9	x	4.500 114.3	23.00 584	7.00 178	135.0 61.2
									5.563 141.3	23.00 584	7.00 178	122.0 55.3
				5 DN150					6.625 168.3	23.00 584	7.00 178	137.0 62.1
									8.625 219.1	23.00 584	7.00 178	147.0 66.7
				6 DN150					10.750 273.0	23.00 584	7.00 178	167.0 75.7
									12.750 323.9	23.00 584	7.00 178	

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.  
(sw) = Carbon Steel Segmentally Welded

### 4.7 DIMENSIONS (CONTINUED)

#### 45° Reducing Lateral

#### No. 30-R SWS



Size				No. 30-R SWS 45° Reducing Lateral (sw)												
Nominal inches DN		Actual Outside Diameter inches DN		C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg										
14 <sup>1</sup> DN350	x	14 DN350	x	4 DN100	14.000 355.6	x	14.000 355.6	x	4.500 114.3	26.50 673	7.50 191	176.0 79.8				
				6 DN150			6.625 168.3	26.50 673	7.50 191	187.0 84.8						
				8 DN200			8.625 219.1	26.50 673	7.50 191	210.0 95.3						
				10 DN250			10.750 273.0	26.50 673	7.50 191	235.0 106.6						
				12 DN300			12.750 323.9	26.50 673	7.50 191	252.0 114.3						
				16 <sup>1</sup> DN400	x	16 DN400	x	6 DN150	16.000 406.4	x	16.000 406.4	x	6.625 168.3	29.00 737	8.00 203	215.0 97.5
								8 DN200			8.625 219.1	29.00 737	8.00 203	252.5 114.5		
10 DN250			10.750 273.0					29.00 737	8.00 203	265.0 120.2						
12 DN300			12.750 323.9					29.00 737	8.00 203	295.0 133.8						
14 DN350			16.000 406.4					29.00 737	8.00 203	305.0 138.3						
18 <sup>1</sup> DN450	x	18 DN450	x					6 DN150	18.000 457.2	x	18.000 457.2	x	6.625 168.3	32.00 813	8.50 216	274.0 124.3
								8 DN200			8.625 219.1	32.00 813	8.50 216	275.0 124.7		
				10 DN250			10.750 273.0	32.00 813	8.50 216	285.0 129.3						
				12 DN300			12.750 323.9	32.00 813	8.50 216	347.0 157.4						
				14 DN350			14.000 355.6	32.00 813	8.50 216	350.0 158.8						
				16 DN400			16.000 406.4	32.00 813	8.50 216	362.0 164.2						
				20 <sup>1</sup> DN500	x	20 DN500	x	10 DN250	20.000 508.0	x	20.000 508.0	x	10.750 273.0	35.00 889	9.00 229	410.0 186.0
								12 DN300			12.750 323.9	35.00 889	9.00 229	415.0 188.2		
14 DN350			14.000 355.6					35.00 889	9.00 229	420.0 190.5						
16 DN400			16.000 406.4					35.00 889	9.00 229	425.0 192.8						
24 <sup>1</sup> DN600	x	24 DN600	x					16 DN400	24.000 609.6	x	24.000 609.6	x	16.000 406.4	40.00 1016	10.00 254	556.0 252.2
				20 DN500			20.000 508.0	40.00 1016	10.00 254	715.0 324.3						
				For AGS fitting information, see <a href="#">publication 20.05</a>												



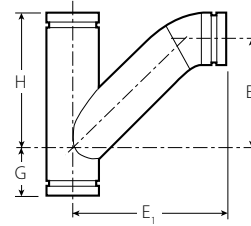
<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.  
(sw) = Carbon Steel Segmentally Welded



## 4.8 DIMENSIONS

### Tee Wye

#### No. 32



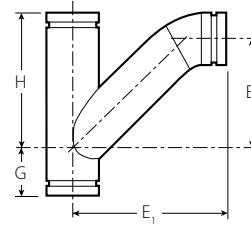
Size				No. 32 Tee Wye (sw)					Approx. Weight (Each)					
Nominal inches DN		Actual Outside Diameter inches mm		G inches mm	H inches mm	E1 inches mm	E2 inches mm	lb	kg					
2 DN50	x	2 DN50	x	2 DN50	2.375 60.3	x	2.375 60.3	x	2.375 60.3	2.75 70	7.00 178	9.00 229	4.63 117	6.4 2.9
2½	x	2½	x	2½	2.875 73.0	x	2.875 73.0	x	2.875 73.0	3.00 76	7.75 197	10.50 267	5.75 146	11.5 5.2
3 DN80	x	3 DN80	x	2 DN50	3.500 88.9	x	3.500 88.9	x	2.375 60.3	3.25 83	8.50 216	10.38 264	6.00 152	12.5 5.7
				3 DN80					3.500 88.9	3.25 83	8.50 216	11.50 292	6.50 165	14.3 6.5
3½ DN90	x	3½ DN90	x	3½ DN90	4.000 101.6	x	4.000 101.6	x	4.000 101.6	3.25 83	10.00 254	13.00 330	7.75 197	15.0 6.8
4 DN100	x	4 DN100	x	1 DN25	4.500 114.3	x	4.500 114.3	x	1.315 33.7	3.75 95	10.50 267	12.25 311	8.38 213	17.0 7.7
				2 DN50					2.375 60.3	3.75 95	10.50 267	11.88 302	7.50 191	20.0 9.1
				3 DN80					3.500 88.9	3.75 95	10.50 267	12.88 327	7.88 200	23.0 10.4
				4 DN100					4.500 114.3	3.75 95	10.00 254	13.63 346	8.13 206	26.0 11.8
				5 DN150					5.563 141.3	4.00 102	12.50 318	16.13 410	10.00 254	48.0 21.8
6 DN150	x	6 DN150	x	2 DN50	6.625 168.3	x	6.625 168.3	x	2.375 60.3	4.50 114	14.00 356	14.13 359	9.75 248	29.0 13.2
				3 DN80					3.500 88.9	4.50 114	14.00 356	15.31 389	10.31 262	37.3 16.9
				4 DN100					4.500 114.3	4.50 114	14.00 356	16.25 413	10.75 273	46.3 21.0
				5 DN150					5.563 141.3	4.50 114	14.00 356	17.25 438	11.13 283	55.0 25.0
				6 DN150					6.625 168.3	4.50 114	14.00 356	18.25 464	11.50 292	60.5 27.4
				8 DN200					8.625 219.1	6.00 152	18.00 457	21.13 537	14.38 365	112.0 50.8
8 DN200	x	8 DN200	x	2 DN50	8.625 219.1	x	8.625 219.1	x	2.375 60.3	6.00 152	18.00 457	17.00 432	12.63 321	70.0 31.8
				3 DN80					3.500 88.9	6.00 152	18.00 457	18.19 462	13.19 335	76.0 34.5
				4 DN100					4.500 114.3	6.00 152	18.00 457	19.00 483	13.50 343	76.4 34.6
				5 DN150					5.563 141.3	6.00 152	18.00 457	20.00 508	13.88 352	85.6 38.8
				6 DN150					6.625 168.3	6.00 152	18.00 457	21.13 537	14.38 365	112.0 50.8
				8 DN200					8.625 219.1	6.00 152	18.00 457	23.25 591	15.25 387	127.9 58.0

(sw) = Carbon Steel Segmentally Welded

## 4.8 DIMENSIONS

### Tee Wye

#### No. 32



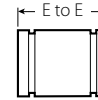
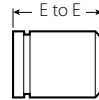
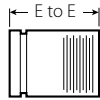
Size				No. 32 Tee Wye (sw)				Approx. Weight (Each) lb kg			
Nominal inches DN		Actual Outside Diameter inches mm		G inches mm	H inches mm	E1 inches mm	E2 inches mm				
10 x DN250	10 x DN250	2 DN50	10.750 x 273.0	2.375 x 60.3	6.50 165	20.50 521	18.75 476	14.38 365	90.0 40.8		
		3 DN80		3.500 88.9	6.50 165	20.50 521	19.88 505	14.88 378	96.0 43.5		
		4 DN100		4.500 114.3	6.50 165	20.50 521	20.75 527	15.25 387	97.4 44.2		
		5		5.563 141.3	6.50 165	20.50 521	21.88 556	15.75 400	115.0 52.2		
		6 DN150		6.625 168.3	6.50 165	20.50 521	22.88 581	16.13 410	133.1 60.4		
		8 DN200		8.625 219.1	6.50 165	20.50 521	27.25 692	19.25 489	156.0 70.8		
		10 DN250		10.750 273.0	6.50 165	20.50 521	27.25 692	18.00 457	190.0 86.2		
		12 x DN300	12 x DN300	2 DN50	12.750 x 323.9	2.375 x 60.3	7.00 178	23.00 584	20.75 527	16.38 416	120.0 54.4
				3 DN80		3.500 88.9	7.00 178	23.00 584	21.75 552	16.75 425	125.0 56.7
				4 DN100		4.500 114.3	7.00 178	23.00 584	22.63 575	17.13 435	127.0 57.6
5				5.563 141.3	7.00 178	23.00 584	23.63 600	17.50 445	143.0 64.9		
6 DN150				6.625 168.3	7.00 178	23.00 584	24.78 629	18.03 458	165.0 74.8		
8 DN200				8.625 219.1	7.00 178	23.00 584	26.92 684	18.92 481	176.0 79.8		
10 DN250				10.750 273.0	7.00 178	23.00 584	29.00 737	19.75 502	200.0 90.7		
12 DN300				12.750 323.9	7.00 178	23.00 584	31.00 787	20.50 521	240.0 108.9		

(sw) = Carbon Steel Segmentally Welded

## 4.9 DIMENSIONS

### Adapter Nipple

No. 40  
No. 42  
No. 43



Size		No. 40 Adapter Nipple Groove x Male Thread <sup>2</sup> (s)		No. 42 Adapter Nipple Groove x Bevel (s)		No. 43 Adapter Nipple Groove x Groove (s)	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
¾ DN20	1.050 26.9	3.00 76	0.3 0.1	3.00 76	0.3 0.1	3.00 76	0.3 0.1
1 DN25	1.315 33.7	3.00 76	0.4 0.2	3.00 76	0.4 0.2	3.00 76	0.4 0.2
1¼ DN32	1.660 42.4	4.00 102	0.8 0.3	4.00 102	0.8 0.3	4.00 102	0.8 0.3
1½ DN40	1.900 48.3	4.00 102	0.9 0.4	4.00 102	0.9 0.4	4.00 102	0.9 0.4
2 DN50	2.375 60.3	4.00 102	1.2 0.6	4.00 102	1.2 0.6	4.00 102	1.2 0.6
2½	2.875 73.0	4.00 102	1.9 0.9	4.00 102	1.9 0.9	4.00 102	1.9 0.9
DN65	3.000 76.1	4.00 102	2.0 0.9	4.00 102	2.0 0.9	4.00 102	2.0 0.9
3 DN80	3.500 88.9	4.00 102	2.5 1.1	4.00 102	2.5 1.1	4.00 102	2.5 1.1
3½ DN90	4.000 101.6	4.00 102	3.0 1.4	4.00 102	3.0 1.4	4.00 102	3.0 1.4
	4.250 108.0	6.00 152	4.9 2.2	6.00 152	4.9 2.2	6.00 152	4.9 2.2
4 DN100	4.500 114.3	6.00 152	5.4 2.5	6.00 152	5.4 2.5	6.00 152	5.4 2.5
4½	5.000 127.0	6.00 152	6.3 2.8	6.00 152	6.3 2.8	6.00 152	6.3 2.8
	5.250 133.0	6.00 152	6.9 3.1	6.00 152	6.9 3.1	6.00 152	6.9 3.1
DN125	5.500 139.7	6.00 152	7.2 3.3	6.00 152	7.2 3.3	6.00 152	7.2 3.3
5	5.563 141.3	6.00 152	7.3 3.3	6.00 152	7.3 3.3	6.00 152	7.3 3.3
	6.000 152.4	6.00 152	8.6 3.9	6.00 152	8.6 3.9	6.00 152	8.6 3.9
	6.250 159.0	6.00 152	9.0 4.1	6.00 152	9.0 4.1	6.00 152	9.0 4.1
	6.500 165.1	6.00 152	9.3 4.2	6.00 152	9.3 4.2	6.00 152	9.3 4.2
6 DN150	6.625 168.3	6.00 152	9.5 4.3	6.00 152	9.5 4.3	6.00 152	9.5 4.3
8 DN200	8.625 219.1	6.00 152	14.3 6.5	6.00 152	14.3 6.5	6.00 152	14.3 6.5
10 DN250	10.750 273.0	8.00 203	22.8 10.3	8.00 203	22.8 10.3	8.00 203	22.8 10.3
12 DN300	12.750 323.9	8.00 203	33.1 15.0	8.00 203	33.1 15.0	8.00 203	33.1 15.0

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(s) = Carbon Steel Segmentally Welded

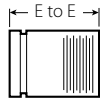
#### NOTE


- For pump package nipples with 1½"/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"/DN100 – N300 diameter – 8"/200mm length required.

## 4.9 DIMENSIONS (CONTINUED)

### Adapter Nipple

No. 40  
No. 42  
No. 43



Size		No. 40 Adapter Nipple Groove x Male Thread <sup>2</sup> (s)		No. 42 Adapter Nipple Groove x Bevel (s)		No. 43 Adapter Nipple Groove x Groove (s)	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
14 <sup>1</sup> DN350	14.000 355.6	8.00 203	36.5 16.5	8.00 203	36.5 16.5	8.00 203	36.5 16.5
16 <sup>1</sup> DN400	16.000 406.4	8.00 203	41.8 19.0	8.00 203	41.8 19.0	8.00 203	41.8 19.0
18 <sup>1</sup> DN450	18.000 457.2	8.00 203	47.2 21.4	8.00 203	47.2 21.4	8.00 203	47.2 21.4
20 <sup>1</sup> DN500	20.000 508.0	8.00 203	52.5 23.8	8.00 203	52.5 23.8	8.00 203	52.5 23.8
22 <sup>1</sup> DN550	22.000 558.8	8.00 203	57.9 26.3	8.00 203	57.9 26.3	8.00 203	57.9 26.3
24 <sup>1</sup> DN600	24.000 609.6	8.00 203	63.2 28.7	8.00 203	63.2 28.7	8.00 203	63.2 28.7
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a> 						

<sup>1</sup> For 14"/DN350 and larger roll grooved systems for carbon steel pipe, Victaulic offers fittings for the Advanced Groove System (AGS). Refer to [publication 20.05](#) for more information. For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(s) = Carbon Steel Segmentally Welded

**NOTE**

- 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"/DN100 – N300 diameter – 8"/200mm length required.

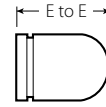
## 4.10 DIMENSIONS

### Cap

#### No. 60

### Bull Plug

#### No. 61



Size		No. 60 Cap		No. 61 Bull Plug (s)	
Nominal	Actual Outside Diameter	T	Approx. Weight (Each)	E to E	Approx. Weight (Each)
inches DN	inches mm	inches mm	lb kg	inches mm	lb kg
¾ DN20	1.050 26.9	0.91 (s) 23	0.2 0.1	NA	NA
1 DN25	1.315 33.7	0.79 20	0.2 0.1	NA	NA
1 ¼ DN32	1.660 42.4	0.79 20	0.4 0.2	NA	NA
1 ½ DN40	1.900 48.3	0.79 20	0.4 0.2	NA	NA
2 DN50	2.375 60.3	0.88 22	0.7 0.3	4.00 102	2.6 1.2
2 ½	2.875 73.0	0.88 22	1.2 0.5	5.00 127	3.0 1.4
DN65	3.000 76.1	0.88 22	1.2 0.5	NA	NA
3 DN80	3.500 88.9	0.88 22	1.7 0.7	6.00 152	4.5 2.0
3 ½ DN90	4.000 101.6	0.88 22	1.9 0.9	NA	NA
	4.250 108.0	0.92 23	2.6 1.2	NA	NA
4 DN100	4.500 114.3	0.92 23	3.1 1.4	7.00 178	7.5 3.4
4 ½	5.000 127.0	1.00 (s) 25	5.4 2.4	NA	NA
	5.250 133.0	0.92 23	3.9 1.8	NA	NA
DN125	5.500 139.7	0.92 23	4.5 2.0	NA	NA
5	5.563 141.3	0.92 23	4.9 2.2	8.00 203	11.5 5.2
	6.250 159.0	0.92 23	5.7 2.6	NA	NA
	6.500 165.1	0.92 23	6.2 2.8	NA	NA
6 DN150	6.625 168.3	0.92 23	6.4 2.9	10.00 254	18.0 8.2
200A	216.3	1.13 29	17.4 7.9	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

### NOTES

- All fittings are ductile iron unless otherwise noted with an (s).
- No. 60 cap is not suitable for use in vacuum service with Style 72 or Style 750 couplings. No. 61 bull plugs should be used.
- Steel dish caps available through 24"/DN600, contact Victaulic.
- No. 60 Caps are available with taps. Tap sizes range from ½" up to 4" maximum, depending on the diameter of the cap, and can be provided centered or offset to suit the application. Contact Victaulic for pricing and availability. All tapped caps are non-cancellable and non-returnable.

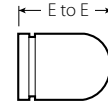
## 4.10 DIMENSIONS


### Cap

#### No. 60

### Bull Plug

#### No. 61



Size		No. 60 Cap		No. 61 Bull Plug (s)	
Nominal inches DN	Actual Outside Diameter inches mm	T inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
8 DN200	8.625 219.1	1.13 29	13.6 6.2	12.00 305	29.0 13.2
10 DN250	10.750 273.0	1.13 29	23.6 10.7	10.00 254	39.0 17.7
12 DN300	12.750 323.9	1.25 32	38.5 17.5	NA	NA
14 <sup>1</sup> DN350	14.000 355.6	9.50 (s) 241	42.0 19.1	NA	NA
16 <sup>1</sup> DN400	16.000 406.4	10.00 (s) 254	45.0 20.4	NA	NA
18 <sup>1</sup> DN450	18.000 457.2	11.00 (s) 279	58.0 26.3	NA	NA
20 <sup>1</sup> DN500	20.000 508.0	12.00 (s) 305	67.5 30.6	NA	NA
22 <sup>1</sup> DN550	22.000 558.8	13.00 (s) 330	+	NA	NA
24 <sup>1</sup> DN600	24.000 609.6	13.50 (s) 343	105.0 47.6	NA	NA
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a> 				

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

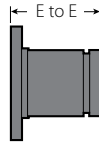
#### NOTES

- All fittings are ductile iron unless otherwise noted with an (s).
- No. 60 cap is not suitable for use in vacuum service with Style 72 or Style 750 couplings. No. 61 bull plugs should be used.
- Steel dish caps available through 24"/DN600, contact Victaulic.
- No. 60 Caps are available with taps. Tap sizes range from 1/2" up to 4" maximum, depending on the diameter of the cap, and can be provided centered or offset to suit the application. Contact Victaulic for pricing and availability. All tapped caps are non-cancellable and non-returnable.

## 4.11 DIMENSIONS

### Flanged Adapter Nipple

#### No. 41



Size		No. 41 ANSI Class 125 Flange Adapter Nipple Flat Face (s)		No. 41-DN PN10/16 Flange Adapter Nipple Flat Face (s)	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
3/4 DN20	1.050 26.9	3.00 76	+ 2.0 0.9	NA 3.00 76	NA 2.6 1.2
1 DN25	1.315 33.7	3.00 76	2.0 0.9	3.00 76	2.6 1.2
1 1/4 DN32	1.660 42.4	4.00 102	3.0 1.4	3.00 76	4.1 1.9
1 1/2 DN40	1.900 48.3	4.00 102	3.5 1.6	NA	NA
2 DN50	2.375 60.3	4.00 102	5.5 2.5	4.00 102	6.2 2.8
2 1/2	2.875 73.0	4.00 102	8.0 3.6	NA	NA
DN65	3.000 76.1	NA	NA	4.00 102	7.1 3.2
3 DN80	3.500 88.9	4.00 102	9.5 4.3	4.00 102	9.0 4.1
3 1/2 DN90	4.000 101.6	4.00 102	+ NA	NA	NA
	4.250 108.0	NA	NA	NA	NA
4 DN100	4.500 114.3	6.00 152	16.7 7.6	6.00 152	12.8 5.8
4 1/2	5.000 127.0	NA	NA	NA	NA
	5.250 133.0	NA	NA	NA	NA
DN125	5.500 139.7	NA	NA	6.00 152	16.8 7.6
5	5.563 141.3	6.00 152	21.5 9.8	NA	NA
	6.500 165.1	NA	NA	NA	NA
6 DN150	6.625 168.3	6.00 152	26.5 12.0	6.00 152	20.5 9.3
200A	216.3	NA	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

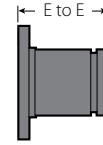
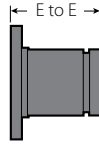
NA = Not Available

"+" = Contact Victaulic for details

4.11 DIMENSIONS (CONTINUED)

Flanged Adapter Nipple

No. 41



Size		No. 41 ANSI Class 125 Flange Adapter Nipple Flat Face (s)		No. 41-DN PN10/16 Flange Adapter Nipple Flat Face (s)	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
8 DN200	8.625 219.1	6.00 152	39.0 17.7	6.00 152	30.8 14.0
250A	267.4	NA	NA	NA	NA
10 DN250	10.750 273.0	8.00 203	64.2 29.1	8.00 203	46.3 21.0
300A	318.5	NA	NA	NA	NA
12 DN300	12.750 323.9	8.00 203	87.0 39.5	8.00 203	58.7 26.6

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

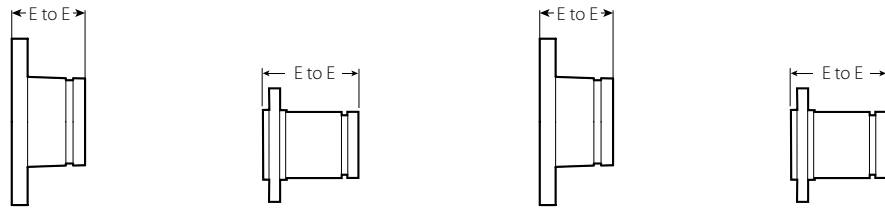
"+" = Contact Victaulic for details



4.11 DIMENSIONS (CONTINUED)

Flanged Adapter Nipple

- No. 45F
- No. 45R
- No. 45FE
- No. 45RE



Size		No. 45F ANSI Class 150 Flange Adapter Nipple Flat Face		No. 45R ANSI Class 150 Flange Adapter Nipple Raised Face		No. 45FE PN10/16 Flange Adapter Nipple Flat Face		No. 45R PN10/16 Flange Adapter Nipple Raised Face	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
¾ DN20	1.050 26.9	3.00 (s) 76	2.0 0.9	3.00 (s) 76	2.0 0.9	NA	NA	NA	NA
1 DN25	1.315 33.7	3.00 (s) 76	2.7 1.2	3.00 (s) 76	2.7 1.2	NA	NA	NA	NA
1¼ DN32	1.660 42.4	4.00 (s) 102	3.6 1.6	4.00 (s) 102	3.6 1.6	NA	NA	NA	NA
1½ DN40	1.900 48.3	4.00 (s) 102	3.9 1.8	4.00 (s) 102	3.9 1.8	2.52 64	+	2.52 64	+
2 DN50	2.375 60.3	4.00 102	6.0 2.7	4.00 102	6.0 2.7	2.52 64	+	2.52 64	+
2½	2.875 73.0	4.00 102	9.9 4.5	4.00 102	9.9 4.5	NA	NA	NA	NA
DN65 <sup>2</sup>	3.000 76.1	NA	NA	NA	NA	2.52 64	+	2.52 64	+
3 DN80	3.500 88.9	4.00 102	11.7 5.3	4.00 102	11.7 5.3	2.52 64	+	2.52 64	+
3½ DN90	4.000 101.6	4.00 (s) 102	13.8 6.3	4.00 (s) 102	13.8 6.3	NA	NA	NA	NA
	4.250 108.0	NA	NA	NA	NA	NA	NA	NA	NA
4 DN100	4.500 114.3	6.00 152	18.5 8.4	6.00 152	18.5 8.4	2.76 70	+	2.76 70	+
DN125	5.500 139.7	NA	NA	NA	NA	2.76 70	+	2.76 70	+
5	5.563 141.3	6.00 (s) 152	21.4 9.7	6.00 (s) 152	21.4 9.7	NA	NA	NA	NA
	6.500 165.1	NA	NA	NA	NA	2.76 70	+	2.76 70	+
6 DN150	6.625 168.3	6.00 152	29.0 13.2	6.00 152	29.0 13.2	2.76 70	+	2.76 70	+
8 DN200	8.625 219.1	6.00 152	42.0 19.1	6.00 152	42.0 19.1	3.15 80	+	3.15 80	+
10 DN250	10.750 273.0	8.00 203	64.2 29.1	8.00 203	64.2 29.1	3.15 80	+	3.15 80	+
12 DN300	12.750 323.9	8.00 203	88.2 40.0	8.00 203	88.2 40.0	3.15 80	+	3.15 80	+
14 <sup>1</sup> DN350	14.000 355.6	8.00 (s) 203	126.4 57.3	8.00 203	126.4 57.3	NA	NA	NA	NA
16 <sup>1</sup> DN400	16.000 406.4	8.00 (s) 203	150.0 68.0	8.00 203	150.0 68.0	NA	NA	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

<sup>2</sup> The DN65 size of No. 45FE and 45RE Flange Adapter Nipples is supplied with eight bolt holes.

(s) = Carbon Steel

NA = Not Available

\*+ = Contact Victaulic for details

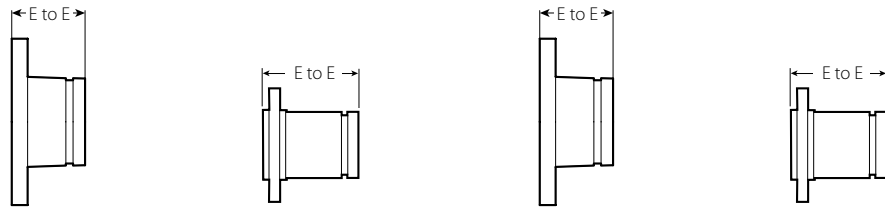
NOTE


- All fittings are ductile iron unless otherwise noted with an (s).

4.11 DIMENSIONS (CONTINUED)

Flanged Adapter Nipple

- No. 45F
- No. 45R
- No. 45FE
- No. 45RE



Size		No. 45F ANSI Class 150 Flange Adapter Nipple Flat Face		No. 45R ANSI Class 150 Flange Adapter Nipple Raised Face		No. 45FE PN10/16 Flange Adapter Nipple Flat Face		No. 45R PN10/16 Flange Adapter Nipple Raised Face	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
18 <sup>1</sup> DN450	18.000 457.2	8.00 (s) 203	177.0 80.3	8.00 (s) 203	177.0 80.3	NA	NA	NA	NA
20 <sup>1</sup> DN500	20.000 508.0	8.00 (s) 203	218.0 98.9	8.00 (s) 203	218.0 98.9	NA	NA	NA	NA
24 <sup>1</sup> DN600	24.000 609.6	8.00 (s) 203	283.0 128.4	8.00 (s) 203	283.0 128.4	NA	NA	NA	NA
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a> 								

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

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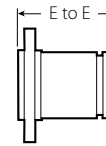
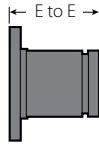
NOTE


- All fittings are ductile iron unless otherwise noted with an (s).

4.16 DIMENSIONS (CONTINUED)

Flange Adapter Nipple

No 46F  
No 46R



Size		No. 46F ANSI Class 300 Flange Adapter Nipple Flat Face (s)		No. 46R ANSI Class 300 Flange Adapter Nipple Raised Face (s)	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
3/4 DN20	1.050 26.9	3.00 76	3.3 1.5	3.00 76	+ +
1 DN25	1.315 33.7	3.00 76	3.9 1.8	3.00 76	3.9 1.8
1 1/4 DN32	1.660 42.4	4.00 102	4.8 2.2	4.00 102	4.8 2.2
1 1/2 DN40	1.900 48.3	4.00 102	6.9 3.1	4.00 102	6.9 3.1
2 DN50	2.375 60.3	4.00 102	8.1 3.7	4.00 102	8.1 3.7
2 1/2	2.875 73.0	4.00 102	11.9 5.4	4.00 102	11.9 5.4
3 DN80	3.500 88.9	4.00 102	16.5 7.5	4.00 102	16.5 7.5
3 1/2 DN90	4.000 101.6	4.00 102	20.1 9.1	4.00 102	20.1 9.1
4 DN100	4.500 114.3	6.00 152	27.4 12.4	6.00 152	27.4 12.4
5	5.563 141.3	6.00 152	35.3 16.0	6.00 152	35.3 16.0
6 DN150	6.625 168.3	6.00 152	47.5 21.5	6.00 152	47.5 21.5
8 DN200	8.625 219.1	6.00 152	68.0 30.8	6.00 152	68.0 30.8
10 DN250	10.750 273.0	8.00 203	100.8 45.7	8.00 203	100.8 45.7
12 DN300	12.750 323.9	8.00 203	148.0 67.1	8.00 203	148.0 67.1
14 <sup>1</sup> DN350	14.000 355.6	8.00 203	180.0 81.8	NA	NA
16 <sup>1</sup> DN400	16.000 406.4	8.00 203	237.0 107.5	NA	NA
18 <sup>1</sup> DN450	18.000 457.2	8.00 203	297.0 134.7	NA	NA
20 <sup>1</sup> DN500	20.000 508.0	8.00 203	+ +	NA	NA
22 <sup>1</sup> DN550	22.000 558.8	8.00 203	+ +	NA	NA
24 <sup>1</sup> DN600	24.000 609.6	8.00 203	+ +	NA	NA
14 – 60 DN350 – DN1500	For AGS fitting information, see <a href="#">publication 20.05</a> 				

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

+ = Contact Victaulic for details

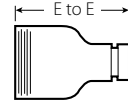
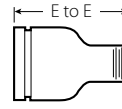
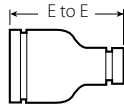
## 4.12 DIMENSIONS

### Swaged Nipple

No. 53

No. 54

No. 55



Size			No. 53 Swage Nipple Groove x Groove (s)		No. 54 Swage Nipple Groove x Male Thread <sup>1</sup> (s)		No. 55 Swage Nipple Male Thread <sup>1</sup> x Groove (s)	
Nominal inches DN		Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
2 DN50	x ¾ DN20	2.375 60.3	1.050 26.9	6.50 165	2.0 0.9	NA	NA	NA
	1 DN25		1.315 33.7	6.50 165	2.0 0.9	6.50 165	2.0 0.9	6.50 165
	1¼ DN32		1.660 42.4	6.50 165	2.0 0.9	6.50 165	2.0 0.9	6.50 165
	1½ DN40		1.900 48.3	6.50 165	2.0 0.9	6.50 165	2.0 0.9	6.50 165
	2½ DN50		2.375 60.3	7.00 178	3.0 1.4	7.00 178	3.0 1.4	7.00 178
2½ DN65	x 1 DN25	2.875 73.0	1.315 33.7	7.00 178	3.0 1.4	7.00 178	3.0 1.4	7.00 178
	1¼ DN32		1.660 42.4	7.00 178	3.0 1.4	7.00 178	3.0 1.4	7.00 178
	1½ DN40		1.900 48.3	7.00 178	3.0 1.4	7.00 178	3.0 1.4	7.00 178
	2 DN50		2.375 60.3	7.00 178	3.0 1.4	7.00 178	3.0 1.4	7.00 178
	2½ DN65		2.875 73.0	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
3 DN80	x 1 DN25	3.500 88.9	1.315 33.7	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
	1¼ DN32		1.660 42.4	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
	1½ DN40		1.900 48.3	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
	2 DN50		2.375 60.3	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
	2½ DN65		2.875 73.0	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
	3 DN80		3.500 88.9	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
	3½ DN90		4.000 101.6	8.00 203	4.5 2.0	8.00 203	4.5 2.0	8.00 203
4 DN100	x 1 DN25	4.500 114.3	1.315 33.7	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	1¼ DN32		1.660 42.4	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	1½ DN40		1.900 48.3	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	2 DN50		2.375 60.3	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	2½ DN65		2.875 73.0	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	3 DN80		3.500 88.9	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	3½ DN90		4.000 101.6	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	4 DN100		4.500 114.3	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	4½ DN110		5.000 127.0	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229
	5 DN120		5.500 139.7	9.00 229	7.5 3.4	9.00 229	7.5 3.4	9.00 229

<sup>1</sup> Available with British Standard Pipe Threads, specify BSP clearly on order.

(s) = Carbon Steel

NA = Not Available

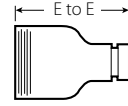
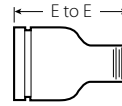
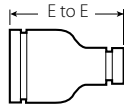
## 4.12 DIMENSIONS

### Swaged Nipple

No. 53

No. 54

No. 55



Size		No. 53 Swage Nipple Groove x Groove (s)		No. 54 Swage Nipple Groove x Male Thread <sup>1</sup> (s)		No. 55 Swage Nipple Male Thread <sup>1</sup> x Groove (s)		
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	
5 x 2 DN50	5.563 x 2.375 141.3 x 60.3	11.00	11.5	11.00	11.5	11.00	11.5	
	3 DN80	11.00	11.5	11.00	11.5	11.00	11.5	
	4 DN100	11.00	11.5	11.00	11.5	11.00	11.5	
			279	5.2	279	5.2	279	5.2
6 x 1 DN150	1.315 x 1.315 33.7 x 33.7	12.00	17.0	12.00	17.0	12.00	17.0	
	1 ¼ DN32	12.00	17.0	12.00	17.0	12.00	17.0	
	1 ½ DN40	12.00	17.2	12.00	17.2	12.00	17.0	
	2 DN50	12.00	17.4	12.00	17.4	12.00	17.4	
	2 ½	12.00	17.4	12.00	17.4	12.00	17.4	
	3 DN80	12.00	17.4	12.00	17.4	12.00	17.4	
	3 ½ DN90	12.00	17.5	12.00	17.5	NA	NA	
	4 DN100	12.00	17.5	12.00	17.5	12.00	17.5	
	4 ½	12.00	17.5	12.00	17.5	NA	NA	
	5	12.00	17.5	12.00	17.5	12.00	17.5	
	5.563 x 1.315 141.3 x 33.7	12.00	17.5	12.00	17.5	12.00	17.5	
			305	7.9	305	7.9	305	7.9
	8 x 6 DN200 DN150	8.625 x 6.625 219.1 x 168.3	12.00	29.0	12.00	29.0	12.00	29.0
			305	13.2	305	13.2	305	13.2

<sup>1</sup> Available with British Standard Pipe Threads, specify BSP clearly on order.

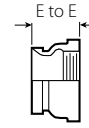
(s) = Carbon Steel

NA = Not Available

### 4.13 DIMENSIONS

#### Female Threaded Adapter

#### No. 80



Size		No. 80 Adapter Groove x Female Thread <sup>1</sup>		
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	
¾ DN20	1.050 26.9	2.00 (s) 51	0.6 0.3	
1 DN25	1.315 33.7	2.08 53	0.4 0.2	
1¼ DN32	1.660 42.4	2.29 58	0.6 0.3	
1½ DN40	1.900 48.3	2.29 58	1.0 0.5	
2 DN50	2.375 60.3	2.50 64	1.5 0.7	
2½	2.875 73.0	2.75 70	1.8 0.8	
DN65	3.000 76.1	2.75 70	2.2 1.0	
3 DN80	3.500 88.9	2.75 70	2.8 1.3	
4 DN100	4.500 114.3	3.25 83	4.5 2.0	

<sup>1</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(s) = Carbon Steel

**NOTE**

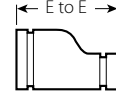
- All fittings are ductile iron unless otherwise noted with an (s).

### 4.15 DIMENSIONS

#### Concentric/Eccentric Reducer

No. 50

No. 51



Size			No. 50 Concentric Reducer		No. 51 Eccentric Reducer				
Nominal inches DN		Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg			
1 DN25	x	¾ DN20	1.315 33.7	x	1.050 26.9	8.00 (s) 203	+	8.00 (s) 203	+
1 ¼ DN32	x	¾ DN20	1.660 42.4	x	1.050 26.9	8.00 (s) 203	1.3 0.6	8.00 (s) 203	1.3 0.6
						2.50 64	0.6 0.3	8.00 (s) 203	1.4 0.6
1 ½ DN40	x	¾ DN20	1.900 48.3	x	1.050 26.9	8.50 (s) 216	1.5 0.7	8.50 (s) 216	1.5 0.7
						2.50 64	0.8 0.4	8.50 (s) 216	1.7 0.8
						2.50 64	0.9 0.4	8.50 (s) 216	1.8 0.8
						2.50 64	0.9 0.4	8.50 (s) 216	1.8 0.8
2 DN50	x	¾ DN20	2.375 60.3	x	1.050 26.9	2.50 64	0.8 0.4	9.00 (s) 229	2.2 1.0
						2.50 64	0.7 0.3	9.00 (s) 229	2.3 1.0
						2.50 64	0.8 0.4	9.00 (s) 229	2.5 1.1
						2.50 64	1.2 0.5	3.50 89	1.1 0.5
						2.50 64	0.7 0.3	9.00 (s) 229	2.3 1.0
2 ½	x	¾ DN20	2.875 73.0	x	1.050 26.9	9.50 (s) 241	+	9.50 (s) 241	+
						2.50 64	1.4 0.6	9.50 (s) 241	3.4 1.5
						2.50 64	1.4 0.6	3.50 89	1.3 0.6
						2.50 64	1.4 0.6	9.50 (s) 241	3.8 1.7
						2.50 64	1.5 0.7	3.50 89	1.6 0.7
						2.50 64	0.7 0.3	9.50 (s) 241	2.3 1.0
						2.50 64	0.7 0.3	9.50 (s) 241	2.3 1.0
DN65	x	1 DN25	3.000 76.1	x	1.315 33.7	2.50 64	+	9.50 (s) 241	+
						2.50 64	+	9.50 (s) 241	+
						2.50 64	+	9.50 (s) 241	+
						2.50 64	+	9.50 (s) 241	+
						2.50 64	+	9.50 (s) 241	+

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

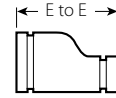
**NOTES**

- All fittings are ductile iron unless otherwise noted with an (s).
- Available with make threaded small end No. 52
- Steel eccentric reducers available through 30"/DN750, contact Victaulic for dimensions.

4.15 DIMENSIONS (CONTINUED)

Concentric/Eccentric Reducer

No. 50  
No. 51



Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer		
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	
3 DN80	x 3/4 DN20	3.500 x 1.050 88.9 26.9	9.50 (s) 241	+	9.50 (s) 241	
		1.315 33.7	2.50 64	1.8 0.8	9.50 (s) 241	
		1.660 42.4	2.50 64	1.4 0.6	9.50 (s) 241	
		1.900 48.3	2.50 64	2.0 0.9	9.50 (s) 241	
		2.375 60.3	2.50 64	1.6 0.7	3.50 89	
		2.875 73.0	2.50 64	1.7 0.7	3.50 89	
		3.000 76.1	2.50 64	2.1 1.0	9.50 (s) 241	
		4.000 x 3.500 101.6 88.9	2.50 64	2.1 1.0	10.00 (s) 254	7.0 3.2
		4.250 x 2.875 108.0 73.0	3.50 89	+	NA	NA
3.000 76.1	3.50 89		+	NA	NA	
3.500 88.9	3.50 89		+	NA	NA	
4 DN100	x 1 DN25	4.500 x 1.315 114.3 33.7	3.00 76	3.0 1.4	10.00 (s) 254	
		1.660 42.4	10.00 (s) 254	+	10.00 (s) 254	
		1.900 48.3	3.00 76	2.6 1.2	10.00 (s) 254	
		2.375 60.3	3.00 76	3.4 1.5	4.00 102	
		3.000 76.1	3.00 76	3.3 1.5	4.00 102	
		2.875 73.0	3.00 76	3.3 1.5	4.00 102	
		3.500 88.9	3.00 76	3.2 1.5	4.00 102	
		4.000 101.6	3.00 76	3.0 1.4	10.00 (s) 254	
		5.250 x 4.250 133.0 108.0	4.50 114	+	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

NOTES

- All fittings are ductile iron unless otherwise noted with an (s).
- Available with make threaded small end No. 52
- Steel eccentric reducers available through 30"/DN750, contact Victaulic for dimensions.

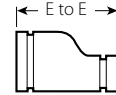


### 4.15 DIMENSIONS

#### Concentric/Eccentric Reducer

No. 50

No. 51



Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer		
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	
DN125 x 2 DN50	5.500 139.7	2.375 60.3	11.00 (s) 279	11.00 (s) 279		
		3.000 76.1	4.50 114	11.00 (s) 279	10.7 4.9	
		3.500 88.9	4.50 114	11.00 (s) 279	+	
		4.500 114.3	4.50 114	5.00 127	+	
5 x 2 DN50	5.563 141.3	2.375 60.3	11.00 (s) 279	11.00 (s) 279	10.1 4.6	
		2.875 73.0	4.00 102	11.00 279	10.8 4.9	
		3.500 88.9	4.00 102	11.00 (s) 279	11.1 5.0	
		4.000 101.6	11.00 (s) 279	11.00 (s) 279	+	
		4.500 114.3	3.50 89	4.3 2.0	5.00 127	5.5 2.5
	6.250 159.0	3.500 88.9	4.50 114	NA	NA	
		4.250 108.0	4.00 102	NA	NA	
		4.500 114.3	4.00 102	NA	NA	
		5.250 133.0	4.00 102	NA	NA	
	6.500 165.1	2.375 60.3	4.00 102	11.50 (s) 292	NA	
		3.000 76.1	4.00 102	10.50 (s) 292	18.1 8.2	
		3.500 88.9	4.00 102	5.50 140	6.1 2.8	
		4.500 114.3	4.00 102	5.50 140	6.8 3.1	
		5.500 139.7	4.00 102	5.6 140	8.0 3.6	
		5.563 141.3	4.00 102	6.4 2.9	7.5 3.4	
		6.250 159.0	4.00 102	6.6 3.0	NA	NA

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

**NOTES**

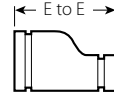
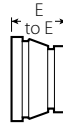
- All fittings are ductile iron unless otherwise noted with an (s).
- Available with make threaded small end No. 52
- Steel eccentric reducers available through 30"/DN750, contact Victaulic for dimensions.

## 4.15 DIMENSIONS

### Concentric/Eccentric Reducer

No. 50

No. 51



Size		Actual Outside Diameter		No. 50 Concentric Reducer		No. 51 Eccentric Reducer			
Nominal inches DN		inches	mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg		
6 DN150	x	1 DN25	6.625	1.315	4.00	6.2	11.50 (s)	+	
			168.3	33.7	102	2.8	292		
					1.900	11.50 (s)	+	11.50 (s)	+
					48.3	292		292	
					2.375	4.00	6.6	11.50 (s)	14.2
					60.3	102	3.0	292	6.4
					2.875	4.00	6.4	11.50 (s)	14.2
					73.0	102	2.9	292	6.4
					3.000	11.50 (s)	+	11.50 (s)	+
					76.1	292		292	
					3.500	4.00	6.4	5.50	7.4
					88.9	102	2.9	140	3.4
					4.500	4.00	5.8	5.50	7.8
					114.3	102	2.6	140	3.5
			5.500	4.00	6.4	5.50	8.1		
			139.7	102	2.9	140	3.7		
			5.563	4.00	6.4	5.50	8.1		
			141.3	102	2.9	140	3.7		
			6.500	4.00	7.2	11.50 (s)	+		
			165.1	102	3.3	292			
			8.515	3.500	5.00	+	NA	NA	
			216.3	88.9	127				
				4.500	5.00	+	NA	NA	
				114.3	127				
				5.500	4.50	+	NA	NA	
				139.7	114				
200A	x	165A	216.3	6.500	5.00	9.5	NA	NA	
				165.1	127	4.3			

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

#### NOTES

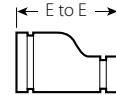
- All fittings are ductile iron unless otherwise noted with an (s).
- Available with make threaded small end No. 52
- Steel eccentric reducers available through 30"/DN750, contact Victaulic for dimensions.

### 4.15 DIMENSIONS

#### Concentric/Eccentric Reducer

No. 50

No. 51



Size			No. 50 Concentric Reducer				No. 51 Eccentric Reducer			
Nominal inches DN		Actual Outside Diameter inches mm	E to E inches mm		Approx. Weight (Each) lb kg		E to E inches mm		Approx. Weight (Each) lb kg	
8 DN200	x 2 1/2		8.625 x 219.1	2.875 73.0	12.00 (s) 305	+	12.00 (s) 305	+		
		76.1 mm			76.1	12.00 (s) 305	+	12.00 (s) 305	+	
	3 DN80	3.500 88.9	5.00 127	9.3 4.2	12.00 (s) 305	22.0 10.0				
			4.250 108.0	5.00 127	11.5 5.2	NA NA				
	4 DN100	4.500 114.3	5.00 127	10.4 4.7	6.00 152	10.5 4.8				
			5.500 139.7	5.00 127	11.7 5.3	12.00 (s) 305 24.5 11.1				
	5	5.563 141.3	5.00 127	11.6 5.3	12.00 (s) 305	23.8 10.8				
			6.250 159.0	4.50 114	11.9 5.4	NA NA				
	6 DN150	6.500 165.1	4.50 114	12.6 5.7	6.00 152	12.8 5.8				
			6.625 168.3	5.00 127	11.9 5.4	6.00 152 13.2 6.0				
	10 DN250	x 4 DN100	10.750 x 273.0	4.500 114.3	6.25 159	20.1 9.1	13.00 (s) 330	33.8 15.3		
				5.500 139.7	13.00 (s) 330	+	13.00 (s) 330	35.7 16.2		
5		5.563 141.3	13.00 (s) 330	35.8 16.2	13.00 (s) 330	35.8 16.2				
			6.500 165.1	6.00 152	+	13.00 (s) 330	+			
6 DN150		6.625 168.3	6.00 152	22.0 10.0	13.00 (s) 330	36.9 16.7				
			8.625 219.1	6.00 152	23.0 10.4	7.00 178	37.0 16.8			
250A x 200A		267.4 x 216.3	6.00 152	23.0 10.4	NA NA	NA NA				
12 DN300	x 4 DN100	12.750 x 323.9	4.500 114.3	14.00 (s) 356	48.0 21.8	14.00 (s) 356	48.0 21.8			
			6.500 165.1	14.00 (s) 356	+	14.00 (s) 356	+			
	6 DN150	6.625 168.3	7.00 178	25.0 11.3	14.00 (s) 356	50.2 22.8				
			8.625 219.1	7.00 178	38.0 17.2	14.00 (s) 356	53.5 24.3			
	10 DN200	10.750 273.0	7.00 178	38.0 17.2	14.00 (s) 356	56.5 25.6				
			7.00 178	38.0 17.2	14.00 (s) 356	56.5 25.6				

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

**NOTES**

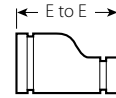
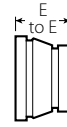
- All fittings are ductile iron unless otherwise noted with an (s).
- Available with make threaded small end No. 52
- Steel eccentric reducers available through 30"/DN750, contact Victaulic for dimensions.

## 4.15 DIMENSIONS

### Concentric/Eccentric Reducer

No. 50

No. 51



Size			No. 50 Concentric Reducer		No. 51 Eccentric Reducer				
Nominal inches DN		Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg			
300A	x	250A	318.5	x	216.3	7.00 178	38.0 17.2	NA	NA
14 <sup>1</sup> DN350	x	6 DN150	14.000 355.6	x	6.625 168.3	13.00 330	63.1 28.6	13.00 330	77.2 35.0
		8 DN200			8.625 219.1	13.00 330	72.7 33.0	13.00 330	81.6 37.0
					10.528 267.4	13.00 330	80.5 36.5	13.00 330	88.2 40.0
		10 DN200			10.750 273.0	13.00 330	80.5 36.5	13.00 330	88.2 40.0
					12.539 318.5	13.00 330	81.6 37.0	13.00 330	90.4 41.0
		12 DN300			12.750 323.9	13.00 330	81.6 37.0	13.00 330	90.4 41.0
16 <sup>1</sup> DN400	x	8 DN200	16.000 406.4	x	8.625 219.1	14.00 356	80.5 36.5	14.00 356	99.2 45.0
		250A			267.4	14.00 356	93.0 42.2	NA	NA
					10.750 273.0	14.00 356	93.0 42.2	14.00 356	99.2 45.0
		10 DN200			12.539 318.5	14.00 356	100.3 45.5	14.00 356	103.6 47.0
					12.750 323.9	14.00 356	100.3 45.5	14.00 356	103.6 47.0
		12 DN300			14.000 355.6	14.00 356	100.3 45.5	14.00 356	108.0 49.0
		14 DN350							
18 <sup>1</sup> DN450	x	10 DN200	18.000 457.2	x	10.750 273.0	15.00 381	112.4 51.0	15.00 381	125.7 57.0
		12 DN300			12.750 323.9	15.00 381	122.4 55.5	15.00 381	134.5 61.0
		14 DN350			14.000 355.6	15.00 381	122.4 55.5	15.00 381	136.7 62.0
		16 DN400			16.000 406.4	15.00 381	126.8 57.5	15.00 381	143.3 65.0

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

#### NOTES

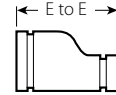
- All fittings are ductile iron unless otherwise noted with an (s).
- Available with make threaded small end No. 52
- Steel eccentric reducers available through 30"/DN750, contact Victaulic for dimensions.


### 4.15 DIMENSIONS

#### Concentric/Eccentric Reducer

No. 50

No. 51



Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer				
Nominal inches DN		Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg		
20 <sup>1</sup> DN500	x 10 DN200	20.000 508.0	x 10.750 273.0	20.00 508	160.0 72.6	20.00 508	172.0 78.0	
	300A		318.5	20.00 508	162.3 73.6	NA	NA	
	12		12.750	20.00 508	162.3 73.6	20.00 508	183.0 83.0	
	14 DN300		14.000	20.00 508	177.5 80.5	20.00 508	191.8 87.0	
	16 DN350		16.000	20.00 508	176.4 80.0	20.00 508	200.6 91.0	
	18 DN400		18.000	20.00 508	205.0 93.0	20.00 508	209.4 95.0	
	20 DN450		20.000	20.00 508	222.7 101.0	20.00 508	222.7 101.0	
	24 <sup>1</sup> DN600		x 10 DN200	24.000 609.6	x 10.750 273.0	20.00 508	222.7 101.0	20.00 508
12 DN300	12.750	20.00 508	209.4 95.0		20.00 508	238.1 108.0		
14 DN350	14.000	20.00 508	213.8 97.0		20.00 508	246.9 112.0		
16 DN400	16.000	20.00 508	215.8 97.9		20.00 508	251.3 114.0		
18 DN450	18.000	20.00 508	229.3 104.0		20.00 508	244.7 111.0		
20 DN500	20.000	20.00 508	+		20.00 508	275.6 125.0		
14 – 60 DN350 – DN1500		For AGS fitting information, see <a href="#">publication 20.05</a> 						

<sup>1</sup> For 14"/DN350 and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

#### NOTES

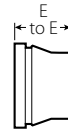
- All fittings are ductile iron unless otherwise noted with an (s).
- Available with make threaded small end No. 52
- Steel eccentric reducers available through 30"/DN750, contact Victaulic for dimensions.

## 4.16 DIMENSIONS

### Small Threaded Reducer

No. 52

No. 52F



Size			No. 52 Concentric Reducer Groove x Male Thread <sup>1</sup>		No. 52F Concentric Reducer Groove x Female BSPT Thread			
Nominal inches DN		Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg		
1 ¼ DN32	x	1 DN25	1.660 42.4	x 1.315 33.7	NA	NA	2.50 64	0.4 0.2
1 ½ DN40	x	1 DN25	1.900 48.3	x 1.315 33.7	2.50 64	0.8 0.4	NA	NA
		1 ¼ DN32		1.660 42.4	2.50 64	0.9 0.4	NA	NA
2 DN50	x	¾ DN20	2.375 60.3	x 1.050 26.9	2.56 65	0.8 0.4	NA	NA
		1 DN25		1.315 33.7	2.50 64	0.9 0.4	NA	NA
		1 ¼ DN32		1.660 42.4	2.50 64	0.9 0.4	NA	NA
		1 ½ DN40		1.900 48.3	2.50 64	1.0 0.5	NA	NA
2 ½	x	1 DN25	2.875 73.0	x 1.315 33.7	2.50 64	1.1 0.5	NA	NA
		1 ¼ DN32		1.660 42.4	2.50 64	1.6 0.7	NA	NA
		1 ½ DN40		1.900 48.3	2.50 64	1.6 0.7	NA	NA
		2 DN50		2.375 60.3	2.50 64	1.8 0.8	NA	NA
DN65	x	1 DN25	3.000 76.1	x 1.315 33.7	2.50 64	1.8 0.8	NA	NA
		1 ¼ DN32		1.660 42.4	2.50 64	1.8 0.8	NA	NA
		1 ½ DN40		1.900 48.3	2.50 64	1.8 0.8	2.50 64	1.8 0.8
		2 DN50		2.375 60.3	2.50 64	1.8 0.8	2.50 64	2.0 0.9

<sup>1</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

#### NOTE

- All fittings are ductile iron unless otherwise noted with an (s).

## 4.16 DIMENSIONS

### Small Threaded Reducer No. 52 No. 52F



Size				No. 52 Concentric Reducer Groove x Male Thread <sup>1</sup>		No. 52F Concentric Reducer Groove x Female BSPT Thread	
Nominal inches DN		Actual Outside Diameter inches mm		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
3 DN80	x ¾ DN25	3.500 88.9	1.050	9.50 (s)	+	NA	NA
			26.9	241			
	1 DN25		1.315	2.50	1.8	NA	NA
			33.7	64	0.8		
	1 ¼ DN32		1.660	2.50	1.5	2.50	2.0
			42.4	64	0.7	64	0.9
	1 ½ DN40		1.900	2.50	2.2	2.50	2.0
			48.3	64	1.0	64	0.9
	2 DN50		2.375	2.50	2.0	2.50	2.0
			60.3	64	0.9	64	0.9
2 ½		2.875	2.50	2.4	NA	NA	
		73.0	64	1.1			
DN65		3.000	2.50	2.4	2.50	2.0	
		76.1	64	1.1	64	0.9	
		4.250 108.0	1.660	NA	NA	3.00	2.9
			42.4			76	1.3
			1.900	NA	NA	3.00	3.1
			48.3			76	1.4
			2.375	3.00	1.3	3.00	3.1
			60.3	76	0.6	76	1.4
			2.875	3.00	1.3	NA	NA
			73.0	76	0.6		
3.000	3.00	1.3	NA	NA			
		76.1	76	0.6			
		3.500	3.50	3.4	NA	NA	
		88.9	89	1.5			
4 DN100	x 1 DN25	4.500 114.3	1.315	3.00	3.0	NA	NA
			33.7	76	1.4		
	1 ¼ DN32		1.660	NA	NA	3.00	3.3
			42.4			76	1.5
	1 ½ DN40		1.900	3.00	2.7	3.00	3.3
			48.3	76	1.2	76	1.5
	2 DN50		2.375	3.00	3.5	3.00	3.5
			60.3	76	1.6	76	1.6
	2 ½		2.875	3.00	3.5	NA	NA
			73.0	76	1.6		
DN65		3.000	3.00	2.9	NA	NA	
		76.1	76	1.3			
3 DN80		3.500	3.00	3.5	NA	NA	
		88.9	76	1.6			

<sup>1</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

**NOTE**

- All fittings are ductile iron unless otherwise noted with an (s).

## 4.16 DIMENSIONS

### Small Threaded Reducer No. 52 No. 52F



Size			No. 52 Concentric Reducer Groove x Male Thread <sup>1</sup>		No. 52F Concentric Reducer Groove x Female BSPT Thread	
Nominal inches DN	Actual Outside Diameter inches mm		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
		5.250 x 3.500 133.0 88.9	4.50 114	4.6 2.1	NA	NA
DN125 x DN65		5.500 x 3.000 139.7 76.1	4.50 114	4.4 2.0	NA	NA
	3 DN80		3.500 88.9	4.50 114	4.4 2.0	NA NA
5 x DN50	2	5.563 x 2.375 141.3 60.3	11.00 (s) 279	3.5 1.6	NA	NA
	3 DN80		3.500 88.9	11.00 (s) 279	3.6 1.6	NA NA
	4 DN100		4.500 114.3	11.00 (s) 279	11.9 5.4	NA NA
	6.250 x 159.0	1.660 42.4	NA	NA	4.50 114	5.5 2.5
		1.900 48.3	NA	NA	4.50 114	5.5 2.5
		2.375 60.3	NA	NA	4.50 114	5.5 2.5
		3.000 76.1	4.50 114	5.1 2.3	NA	NA
		3.500 88.9	4.75 121	5.5 2.5	NA	NA
	6.500 x 165.1	1.660 42.4	NA	NA	4.00 102	6.4 2.9
		1.900 48.3	NA	NA	4.00 102	6.6 3.0
		2.375 60.3	4.00 102	5.5 2.5	4.00 102	6.6 3.0
		3.000 76.1	4.00 102	5.9 2.7	NA	NA
		3.500 88.9	4.00 102	6.6 3.0	NA	NA

<sup>1</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(s) = Carbon Steel

NA = Not Available

"+" = Contact Victaulic for details

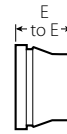
**NOTE**

- All fittings are ductile iron unless otherwise noted with an (s).



## 4.16 DIMENSIONS

### Small Threaded Reducer No. 52 No. 52F



Size				No. 52 Concentric Reducer Groove x Male Thread <sup>1</sup>		No. 52F Concentric Reducer Groove x Female BSPT Thread	
Nominal inches DN		Actual Outside Diameter inches mm		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
6 DN150	x 1 DN25	6.625 168.3	x 1.315 33.7	4.00 102	5.5 2.5	NA	NA
	2 DN50		2.375 60.3	4.00 102	6.7 3.0	NA	NA
	2½		2.875 73.0	4.00 102	5.8 2.6	NA	NA
	3 DN80		3.500 88.9	4.00 102	8.0 3.6	NA	NA
	4 DN100		4.500 114.3	11.50 (s) 292	15.9 7.2	NA	NA
	5		5.563 141.3	11.50 (s) 292	20.0 9.1	NA	NA
8 DN200	x 4 DN100	6.625 168.3	x 4.500 114.3	12.00 (s) 305	22.9 10.4	NA	NA
	6 DN150		6.625 168.3	12.00 (s) 305	25.0 11.3	NA	NA

<sup>1</sup> Available with British Standard Pipe Threads, specify "BSP" clearly on order.

(s) = Carbon Steel

NA = Not Available

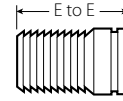
"+" = Contact Victaulic for details

**NOTE**

- All fittings are ductile iron unless otherwise noted with an (s).

4.16 DIMENSIONS (CONTINUED)

Hose Nipple  
No. 48



Size		No. 48 Hose Nipple (s)		
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	
¾ DN20	1.050 26.9	3.13 79	0.3 0.1	
1 DN25	1.315 33.7	3.38 86	0.4 0.2	
1¼ DN32	1.660 42.4	3.88 98	0.6 0.3	
1½ DN40	1.900 48.3	3.88 98	0.8 0.4	
2 DN50	2.375 60.3	4.50 114	1.0 0.4	
2½	2.875 73.0	5.38 137	2.0 0.9	
3 DN80	3.500 88.9	5.75 146	3.1 1.4	
4 DN100	4.500 114.3	7.00 178	4.9 2.2	
5	5.563 141.3	8.75 222	8.0 3.6	
6 DN150	6.625 168.3	10.13 257	14.3 6.5	
8 DN200	8.625 219.1	11.88 302	24.7 11.2	
10 DN250	10.750 273.0	12.50 318	41.0 18.6	
12 DN300	12.750 323.9	14.50 368	62.0 28.1	

(s) = Carbon Steel

## 5.0 PERFORMANCE

### 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		90° Elbows		45° Elbows		Tees	
Nominal inches DN	Actual Outside Diameter inches mm	No. 10 Std. Radius feet meters	No. 100 1 ½ D Long Radius feet meters	No. 11 Std. Radius feet meters	No. 110 1 ½ D Long Radius feet meters	Branch feet meters	Run feet meters
¾ DN20	1.050 26.9	1.4 0.4	–	0.7 0.2	–	3.3 1.0	1.4 0.4
1 DN25	1.315 33.7	1.7 0.5	–	0.8 0.2	–	4.2 1.3	1.7 0.5
1 ¼ DN32	1.660 42.4	3.8 1.1	–	4.5 1.4	–	6.1 1.9	1.5 0.5
1 ½ DN40	1.900 48.3	5.5 1.7	–	3.7 1.1	–	6.1 1.9	1.2 0.4
2 DN50	2.375 60.3	3.6 1.1	2.5 0.8	1.8 0.5	1.1 0.3	8.5 2.6	3.6 1.1
DN65	3.000 76.1	4.3 1.3	–	2.3 0.7	–	10.8 3.3	4.3 1.3
3 DN80	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
	4.250 108.0	6.4 2.0	–	3.2 1.0	–	15.3 4.7	6.4 2.0
4 DN100	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
	5.250 133.0	8.1 2.5	–	4.1 1.3	–	20.0 6.1	8.1 2.5
DN125	5.500 139.7	8.5 2.6	–	4.2 1.3	–	21.0 6.4	8.5 2.6
5	5.563 141.3	8.5 2.6	–	4.2 1.3	–	21.0 6.4	8.5 2.6
	6.250 159.0	9.4 2.9	–	4.9 1.5	–	25.0 7.6	9.6 2.9
	6.500 165.1	9.6 2.9	–	5.0 1.5	–	25.0 7.6	10.0 3.0
6 DN150	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 DN200	8.625 219.1	13.1 4.0	9.8 3.0	6.5 2.0	4.0 1.2	33.1 10.1	13.1 4.0
10 DN250	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 DN300	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 DN350	14.000 355.6	24.5 <sup>1</sup> 7.5	15.8 4.8	18.5 <sup>1</sup> 5.6	11.0 3.4	70.0 21.3	23.0 7.0
16 DN400	16.000 406.4	28.0 <sup>1</sup> 8.5	18.0 5.5	21.0 <sup>1</sup> 6.4	13.0 4.0	80.0 24.4	27.0 8.2
18 DN450	18.000 457.2	31.0 <sup>1</sup> 9.4	20.0 6.1	23.5 <sup>1</sup> 7.2	14.0 4.3	90.0 27.4	30.0 9.1
20 DN500	20.000 508.0	34.0 <sup>1</sup> 10.4	22.5 6.9	25.5 <sup>1</sup> 7.8	16.0 4.9	100.0 30.5	33.0 10.1
24 DN600	24.000 609.6	42.0 <sup>1</sup> 12.8	27.0 8.2	29.5 <sup>1</sup> 9.0	19.0 5.8	120.0 36.6	40.0 12.2

<sup>1</sup> Fitting flow data for 14-24/DN350-DN600 size No. 10 and No. 11 Elbows is based on fittings for Style 07 and Style 77 couplings. For flow data on AGS fittings (No. W10 and No. W11 Elbows), refer to publication 20.05.

## 6.0 NOTIFICATIONS

### WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Always reference Victaulic [publication I-ENDCAP](#) for important end cap installation safety instructions.
- Wear safety glasses, hardhat, foot protection, and hearing protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

## 7.0 REFERENCE MATERIALS



Galvanized  
[Publication 07.01](#) for Original Groove Fittings  
[Publication 20.05](#) for AGS Fittings



Plain End  
[Publication 14.04](#)



Extra Heavy EndSeal "ES"  
[Publication 07.03](#)



Stainless Steel  
[Publication 17.16](#)



Fabricated Steel Fittings  
[Publication 07.04](#)



AGS - Advanced Groove System  
from 14 – 60"/DN350 – DN1500  
[Publication 20.05](#)



Shouldered Ends  
[Publication 07.06](#)



Aluminum  
[Publication 21.03](#)



XL fittings for abrasive services  
[Publication 07.07](#)



Copper  
[Publication 22.04](#)



Victaulic Base Support Elbows  
[Publication 07.13](#)



Ductile Iron for AWWA size pipe  
[Publication 23.05](#)

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**User Responsibility for Product Selection and Suitability**

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

**Installation**

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [victaulic.com](#).

**Warranty**

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

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