



No. 20 Tee



No. 10 Elbow

1.0 PRODUCT DESCRIPTION

Available Sizes

- ¾ – 60"/20 – 1500 mm

Maximum Working Pressure

- Fitting pressure ratings are equivalent to the pressure ratings of the coupling used to install them.

Application

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

Pipe Materials

- Carbon Steel or Stainless Steel

NOTE

- 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.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

2.0 CERTIFICATION/LISTINGS



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.

3.0 SPECIFICATIONS - MATERIAL

Fitting: (specify choice)

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

Nipples: (specify choice)

- ☐ ¾ – 4"/20 – 100 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type F
- ☐ 5 – 6"/125 – 150 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type E or S, Gr. B
- ☐ 8 – 12"/200 – 300 mm: Carbon steel, Schedule 30 or 40, conforming to ASTM A-53, Type E or S, Gr. B

Flanged Adapter Nipples: (specify choice)

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

Fitting Coating: (specify choice)

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

Flanged Adapter Nipple Coating: (specify choice)

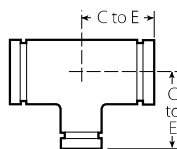
- ☐ Standard: None (Unfinished)
- ☐ Optional: Orange enamel, hot dip galvanized and others

4.4 DIMENSIONS

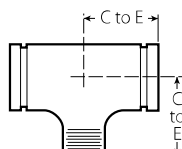
Reducing Tee

No. 25 Grooved Branch

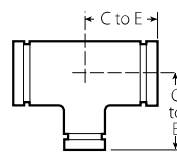
No. 29T Threaded Branch



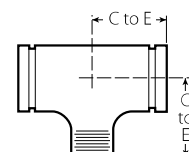
No. 25



No. 29T



No. 25



No. 29T

Size					No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each) lb kg
Nominal Size inches DN					C to E inches mm	C to E inches mm	
1 DN25	x	1 DN225	x	¾ DN20	2.25 (sw) 57	2.25 (sw) 57	1.0 0.5
1 ¼ DN32	x	1 ¼ DN32	x	1 DN25	2.75 (sw) 70	2.75 (sw) 70	1.3 0.6
1 ½ DN40	x	1 ½ DN40	x	¾ DN20	2.75 (sw) 70	2.75 (sw) 70	1.5 0.7
				1 DN25	2.75 (sw) 70	2.75 (sw) 70	1.5 0.7
				1 ¼ DN32	2.75 (sw) 70	2.75 (sw) 70	1.7 0.8
2 DN50	x	2 DN50	x	¾ DN20	3.25 83	3.25 83	2.5 1.1
				1 DN25	3.25 83	3.25 83	2.7 1.2
				1 ¼ DN32	3.25 (sw) 83	3.25 (sw) 83	1.8 0.8
				1 ½ DN40	3.25 83	3.25 (sw) 83	3.0 1.4
2 ½	x	2 ½	x	¾ DN20	3.75 (sw) 95	3.75 (sw) 95	3.9 1.8
				1 DN25	3.75 95	3.75 (sw) 95	3.8 1.7
				1 ¼ DN32	3.75 95	3.75 95	4.2 1.7
				1 ½ DN40	3.75 95	3.75 95	3.9 1.8
				2 DN50	3.75 95	3.75 (sw) 95	4.5 2.0
3 DN80	x	3 DN80	x	¾ DN20	4.25 (sw) 108	4.25 (sw) 108	5.7 2.6
				1 DN25	4.25 108	4.25 108	6.1 2.8
				1 ¼ DN32	4.25 108	4.25 108	8.0 3.6
				1 ½ DN40	4.25 108	4.25 (sw) 108	6.5 2.9
				2 DN50	4.25 108	4.25 (sw) 108	6.2 2.8
				2 ½	4.25 108	4.25 (sw) 108	6.4 2.9

⁷ For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

⁸ Cast fitting available. Contact Victaulic for details.

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

(sw) = Carbon Steel Segmentally Welded

Size				No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each) lb kg	
Nominal Size inches DN				C to E inches mm	C to E inches mm		
4 DN100	x	4 DN100	x	¾ DN20	5.00 (sw) 127	5.00 (sw) 127	8.0 3.6
				1 DN25	5.00 127	5.00 127	7.8 3.5
				1 ¼ DN32	5.00 (sw) 127	5.00 (sw) 127	9.6 4.4
				1 ½ DN40	5.00 127	5.00 127	10.2 4.6
				2 DN50	5.00 127	5.00 127	11.2 5.1
				2 ½	5.00 127	5.00 127	11.4 5.2
				3 DN80	5.00 127	5.00 127	11.6 5.3
				5 DN125	x	5 DN125	x
1 ½ DN40	5.50 (sw) 140	5.50 (sw) 140	14.3 6.5				
2 DN50	5.50 (sw) 140	5.50 (sw) 140	14.5 6.6				
2 ½	5.50 140	5.50 (sw) 140	15.2 6.9				
3 DN80	5.50 140	5.50 (sw) 140	16.6 7.5				
4 DN100	5.50 140	5.50 (sw) 140	16.7 7.6				
6 DN150	x	6 DN150	x				
				1 ½ DN40	6.50 (sw) 165	6.50 (sw) 165	24.0 10.9
				2 DN50	6.50 165	6.50 165	21.6 9.8
				2 ½	6.50 165	6.50 165	21.4 11.7
				3 DN80	6.50 165	6.50 165	26.5 12.0
				4 DN100	6.50 165	6.50 165	25.0 11.3
				5	6.50 165	6.50 165	23.2 10.5
				6 ½ DN165.1	x	6 ½ DN165.1	x
4 DN100	6.50 165	6.50 (sw) 165	25.0 11.3				

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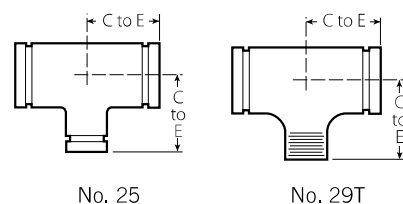
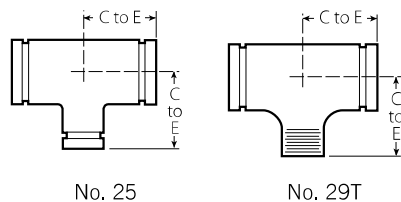
(sw) = Carbon Steel Segmentally Welded

4.4 DIMENSIONS (Continued)

Reducing Tee

No. 25 Grooved Branch

No. 29T Threaded Branch



Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)
Nominal Size inches DN	C to E inches mm	C to E inches mm	lb kg
8 DN200 x 8 DN200 x	1 ½ DN40	7.75 (sw) 197	33.0 15.0
	2 DN50	7.75 (sw) 197	33.5 15.2
	2 ½	7.75 (sw) 197	39.0 17.7
	3 DN80	7.75 (sw) 197	33.6 15.2
	4 DN100	7.75 197	41.8 19.0
	5	7.75 (sw) 197	34.0 15.4
	6 DN150	7.75 197	42.3 19.2
	165.1	7.75 (sw) 197	48.0 21.8
	10 DN250 x 10 DN250 x	9.00 229	62.0 28.1
	2 DN50	9.00 (sw) 229	62.0 28.1
10 DN250 x 10 DN250 x	2 ½	9.00 (sw) 229	62.4 28.3
	3 DN80	9.00 (sw) 229	60.0 27.2
	4 DN100	9.00 (sw) 229	61.0 27.7
	5	9.00 (sw) 229	52.0 23.6
	6 DN150	9.00 (sw) 229	59.0 26.8
	8 DN200	9.00 (sw) 229	64.7 29.3

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(sw) = Carbon Steel Segmentally Welded

Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)
Nominal Size inches DN	C to E inches mm	C to E inches mm	lb kg
12 DN300 x 12 DN300 x	1 DN25	10.00 (sw) 254	77.0 34.9
	2 DN50	10.00 (sw) 254	80.0 36.3
	2 ½	10.00 (sw) 254	78.0 35.4
	3 DN80	10.00 (sw) 254	82.0 37.2
	4 DN100	10.00 (sw) 254	80.0 36.3
	5	10.00 (sw) 254	75.0 34.0
	6 DN150	10.00 (sw) 254	75.0 34.0
	8 DN200	10.00 (sw) 254	80.0 36.3
	10 DN250	10.00 (sw) 254	84.0 38.1
	14 ⁸ DN350 x 14 DN350 x	11.00 (sw) 279	102.0 46.3
14 ⁸ DN350 x 14 DN350 x	6 DN150	11.00 (sw) 279	108.2 49.1
	8 DN200	11.00 279	112.0 50.8
	10 DN250	11.00 279	120.0 54.4
	12 DN300	11.00 279	129.1 58.6
	16 ⁸ DN400 x 16 DN400 x	12.00 305	130.0 59.0
	6 DN150	12.00 (sw) 305	133.5 60.6
	8 DN200	12.00 305	145.0 65.8
	10 DN250	12.00 305	149.5 67.8
16 ⁸ DN400 x 16 DN400 x	12 DN300	12.00 305	154.0 69.9
	14 DN350	12.00 (sw) 305	167.0 75.8

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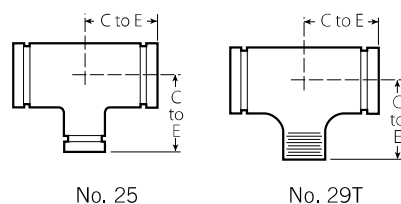
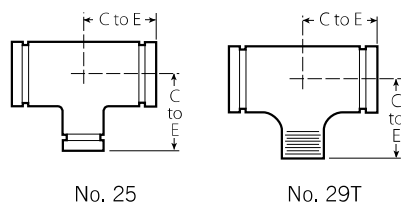
(sw) = Carbon Steel Segmentally Welded

4.4 DIMENSIONS (Continued)

Reducing Tee

No. 25 Grooved Branch

No. 29T Threaded Branch



Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)
Nominal Size inches DN	C to E inches mm	C to E inches mm	lb kg
18 ⁷ DN450 x 18 DN450 x 4 DN100	15.50 (sw) 394	15.50 (sw) 394	194.0 88.0
6 DN150	15.50 (sw) 394	15.50 (sw) 394	200.0 90.7
8 DN200	15.50 (sw) 394	15.50 (sw) 394	202.0 91.6
10 DN250	15.50 394	15.50 394	212.0 96.2
12 DN300	15.50 394	15.50 394	222.6 101.0
14 DN350	15.50 394	—	230.1 104.4
16 DN400	15.50 394	—	247.6 112.3
20 ⁷ DN500 x 20 DN500 x 6 DN150	17.25 438	17.25 438	240.0 108.9
8 DN200	17.25 438	17.25 438	244.0 110.7
10 DN250	17.25 438	17.25 438	256.0 116.1
12 DN300	17.25 438	17.25 438	264.0 119.8
14 DN350	17.25 438	—	275.0 124.7
16 DN400	17.25 438	—	288.6 130.9
18 DN450	17.25 438	—	297.0 134.7

Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)
Nominal Size inches DN	C to E inches mm	C to E inches mm	lb kg
24 ⁷ DN600 x 24 DN600 x 8 DN200	20.00 508	20.00 508	340.0 154.2
10 DN250	20.00 508	20.00 508	343.9 156.0
12 DN300	20.00 508	20.00 508	352.8 160.0
14 ⁹ DN350	20.00 508	—	360.0 163.3
16 DN400	20.00 508	—	378.0 171.5
18 ⁹ DN450	20.00 508	—	380.0 172.4
20 DN500	20.00 508	—	373.0 169.2
DN14 – 60 DN350 – 1500	For AGS fitting information, see publication 20.05 AGS [™]		

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⁸ Cast fitting available. Contact Victaulic for details.

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NOTES

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

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

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