



No. 20 Tee



No. 10 Elbow

1.0 PRODUCT DESCRIPTION

Available Sizes

- ¾ – 60"/DN20 – DN1500

Maximum Working Pressure

- Pressure ratings for Victaulic standard fittings conform to the ratings of Victaulic Style 177N couplings (refer to [publication 06.24](#) for more information).

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		Spec Section		Paragraph	
Submitted By		Date		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 A536, Grade 65-45-12.
- Optional: Segmentally welded steel as shown under nipples

Nipples: (specify choice)

- ¾ – 4"/DN20 – DN100: Carbon steel, Schedule 40, conforming to ASTM A53, Type F
- 5 – 6"/DN125 – DN150: Carbon steel, Schedule 40, conforming to ASTM A53, Type E or S, Gr. B
- 8 – 12"/DN200 – DN300: Carbon steel, Schedule 30 or 40, 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)

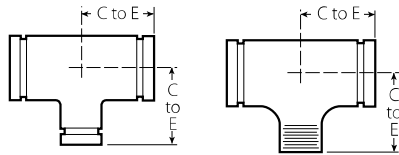
- Standard: None (Unfinished)
- Optional: Orange enamel, hot dip galvanized and others

4.4 DIMENSIONS

Reducing Tee

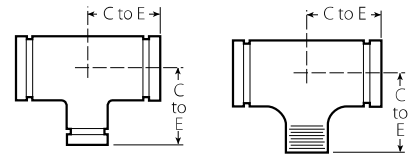
No. 25 Grooved Branch

No. 29T Threaded Branch



No. 25

No. 29T



No. 25

No. 29T

Size			No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)	
Nominal inches DN			C to E inches mm	C to E inches mm		
1 DN25	x	1 DN25	2.25 (sw) 57	2.25 (sw) 57	1.0 0.5	
1 1/4 DN32	x	1 1/4 DN32	2.75 (sw) 70	2.75 (sw) 70	1.3 0.6	
1 1/2 DN40	x	1 1/2 DN40	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 1/4 DN32	2.75 (sw) 70	2.75 (sw) 70	1.7 0.8
2 DN50	x	2 DN50	3.25 83	3.25 83	2.5 1.1	
			1 DN25	3.25 83	3.25 83	2.7 1.2
			1 1/4 DN32	3.25 (sw) 83	3.25 (sw) 83	1.8 0.8
			1 1/2 DN40	3.25 83	3.25 (sw) 83	3.0 1.4
2 1/2	x	2 1/2	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 1/4 DN32	3.75 95	3.75 95	4.2 1.7
			1 1/2 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	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 1/4 DN32	4.25 108	4.25 108	8.0 3.6
			1 1/2 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 1/2	4.25 108	4.25 (sw) 108	6.4 2.9

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

(sw) = Carbon Steel Segmentally Welded

NOTE

- Cast fitting available. Contact Victaulic for details.

Size			No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)				
Nominal inches DN			C to E inches mm	C to E inches mm					
4 DN100	x	4 DN100	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 1/4 DN32	5.00 (sw) 127	5.00 (sw) 127	9.6 4.4			
			1 1/2 DN40	5.00 127	5.00 127	10.2 4.6			
			2 DN50	5.00 127	5.00 127	11.2 5.1			
			2 1/2	5.00 127	5.00 127	11.4 5.2			
			3 DN80	5.00 127	5.00 127	11.6 5.3			
			5	x	5	5.50 (sw) 140	5.50 (sw) 140	14.0 6.4	
						1 1/2 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 1/2	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				6.50 (sw) 165	6.50 (sw) 165	23.0 10.4	
			1 1/2 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 1/2	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 1/2	x	6 1/2	6.50 165	6.50 (sw) 165	24.0 10.9				
			4 DN100	6.50 165	6.50 (sw) 165	25.0 11.3			

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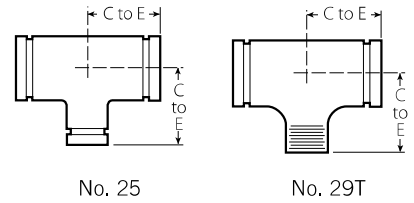
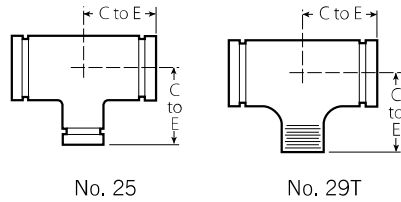
NOTE

- Cast fitting available. Contact Victaulic for details.

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 inches DN			C to E inches mm	C to E inches mm	lb kg		
8 DN200	x	8 DN200	1 1/2 DN40	7.75 (sw)	7.75 (sw)	33.0	
				197	197	15.0	
				2 DN50	7.75 (sw)	7.75 (sw)	33.5
				197	197	15.2	
				2 1/2	7.75 (sw)	7.75 (sw)	39.0
				197	197	17.7	
				3 DN80	7.75 (sw)	7.75 (sw)	33.6
				197	197	15.2	
				4 DN100	7.75	7.75	41.8
				197	197	19.0	
10 DN250	x	10 DN250	1 1/2 DN40	9.00	9.00	62.0	
				229	229	28.1	
				2 DN50	9.00 (sw)	9.00 (sw)	62.0
				229	229	28.1	
				2 1/2	9.00 (sw)	9.00 (sw)	62.4
				229	229	28.3	
				3 DN80	9.00 (sw)	9.00 (sw)	60.0
				229	229	27.2	
				4 DN100	9.00 (sw)	9.00 (sw)	61.0
				229	229	27.7	
165.1mm				9.00 (sw)	9.00 (sw)	52.0	
				229	229	23.6	
				6 DN150	9.00 (sw)	9.00 (sw)	59.0
				229	229	26.8	
				8 DN200	9.00 (sw)	9.00 (sw)	64.7
				229	229	29.3	

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 (sw) = Carbon Steel Segmentally Welded

NOTE

- Cast fitting available. Contact Victaulic for details.

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

² 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.

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NOTE

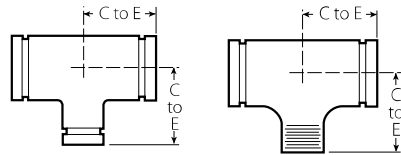
- Cast fitting available. Contact Victaulic for details.

4.4 DIMENSIONS (CONTINUED)

Reducing Tee

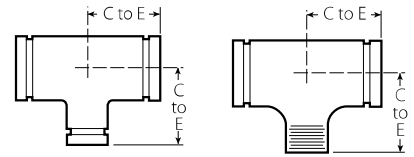
No. 25 Grooved Branch

No. 29T Threaded Branch



No. 25

No. 29T



No. 25

No. 29T

Size		No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)		
Nominal inches DN		C to E inches mm	C to E inches mm	lb kg		
18 ² DN450	x 18 DN450	4 DN100	15.50 (sw) 394	194.0 88.0		
		6 DN150	15.50 (sw) 394	200.0 90.7		
		8 DN200	15.50 (sw) 394	202.0 91.6		
		10 DN250	15.50 394	212.0 96.2		
		12 DN300	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 ² DN500	x 20 DN500	6 DN150	17.25 438	240.0 108.9
		8 DN200		17.25 438	244.0 110.7	
		10 DN250		17.25 438	256.0 116.1	
12 DN300	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				

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NOTE

- Cast fitting available. Contact Victaulic for details.

Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight (Each)		
Nominal inches DN	C to E inches mm	C to E inches mm	lb kg		
24 ² DN600	x 24 DN600	8 DN200	340.0 154.2		
		10 DN250	343.9 156.0		
		12 DN300	352.8 160.0		
		14 DN350	360.0 163.3		
		16 DN400	378.0 171.5		
		18 DN450	380.0 172.4		
		20 DN500	373.0 169.2		
		14 – 60 DN350 – 1500		For AGS fitting information, see publication 20.05	

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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).
- Cast fitting available. Contact Victaulic for details.