



No. 20 Tee

No. 10 Elbow

1.0 PRODUCT DESCRIPTION

Available Sizes

- $\frac{3}{4}$ – 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	
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 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)

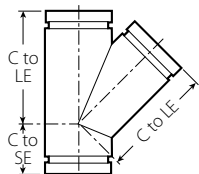
Standard: None (Unfinished)

Optional: Orange enamel, hot dip galvanized and others

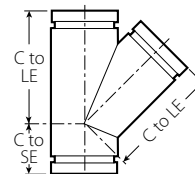
4.6 DIMENSIONS

45° Lateral

No. 30



No. 30



No. 30

Size		No. 30 45° Lateral		Weight
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. (Each) lb kg
¾ DN20	1.050 26.9	4.50 (sw) 114	2.00 (sw) 51	1.0 0.5
1 DN25	1.315 33.7	5.00 (sw) 127	2.25 (sw) 57	1.7 0.8
1¼ DN32	1.660 42.4	5.75 146	2.50 64	2.5 (d) 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	5.0 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	11.0 5.0
3 DN80	3.500 88.9	8.50 216	3.25 83	11.7 (d) 5.4
3½ DN90	4.000 101.6	10.00 (sw) 254	3.50 (sw) 89	17.8 8.1
4 DN100	4.500 114.3	10.50 267	3.75 95	22.2 (d) 10.1
5	5.563 141.3	12.50 (sw) 318	4.00 (sw) 102	21.8 9.9

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

(sw) = Carbon Steel Segmentally Welded

Size		No. 30 45° Lateral		Weight
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. (Each) lb kg
	6.500 165.1	14.00 (sw) 356	4.50 (sw) 114	43.6 19.8
6 DN150	6.625 168.3	14.00 (sw) 356	4.50 (sw) 114	43.6 19.8
8 DN200	8.625 219.1	18.00 (sw) 457	6.00 (sw) 152	72.0 32.7
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
14² DN350	14.000 355.6	26.50 (sw) 673	7.50 (sw) 191	276.0 125.2
16² DN400	16.000 406.4	29.00 (sw) 737	8.00 (sw) 203	344.2 156.1
18² DN450	18.000 457.0	32.00 (sw) 813	8.50 (sw) 216	429.0 194.6
20² DN500	20.000 508.0	35.00 (sw) 889	9.00 (sw) 229	500.0 226.8
24² DN600	24.000 610.0	40.00 (sw) 1016	10.00 (sw) 254	715.0 324.3
14 – 60 DN350 – DN1500		For AGS fitting information, see publication 20.05		



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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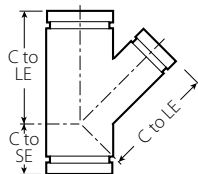
NOTE

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

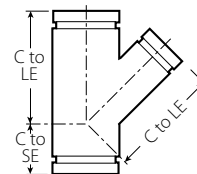
4.7 DIMENSIONS

45° Reducing Lateral

No. 30-R



No. 30-R



No. 30-R

Size				No 30-R 45° Reducing Lateral		
Nominal inches DN				C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg
3 DN80	x	3 DN80	2 DN50	8.50 216	3.25 83	9.8 4.4
			2½	8.50 216	3.25 83	9.8 4.4
4 DN100	x	4 DN100	2 DN50	10.50 267	3.75 95	10.0 4.5
			2½	10.50 267	3.75 95	10.0 4.5
			3 DN80	10.50 267	3.75 95	18.3 8.3
5	x	5	2 DN50	12.50 318	4.00 102	24.0 10.9
			3 DN80	12.50 318	4.00 102	27.0 12.2
			4 DN100	12.50 318	4.00 102	26.5 12.0
6 DN150	x	6 DN150	3 DN80	14.00 356	4.50 114	37.0 16.8
			4 DN100	14.00 356	4.50 114	36.0 16.3
			5	14.00 356	4.50 114	44.7 20.3
8 DN200	x	8 DN200	4 DN100	18.00 457	6.00 152	62.0 28.1
			5	18.00 457	6.00 152	75.5 34.2
			6 DN150	18.00 457	6.00 152	82.0 37.2
10 DN250	x	10 DN250	4 DN100	20.50 521	6.50 165	104.8 47.5
			5	20.50 521	6.50 165	99.0 44.9
			6 DN150	20.50 521	6.50 165	105.8 48.0
			8 DN200	20.50 521	6.50 165	118.0 53.5
12 DN300	x	12 DN300	5	23.00 584	7.00 178	122.0 55.3
			6 DN150	23.00 584	7.00 178	137.0 62.1
			8 DN200	23.00 584	7.00 178	147.0 66.7
			10 DN250	23.00 584	7.00 178	167.0 75.8

Size				No 30-R 45° Reducing Lateral			
Nominal inches DN				C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg	
14 ² DN350	x	14 DN350	x	4 DN100	26.50 673	7.50 191	172.0 78.0
				6 DN150	26.50 673	7.50 191	187.0 84.8
				8 DN200	26.50 673	7.50 191	205.8 93.4
				10 DN250	26.20 673	7.50 191	235.0 106.6
				12 DN300	26.50 673	7.50 191	250.0 113.4
				16 ² DN400	x	16 DN400	x
8 DN200	29.00 737	8.00 203	252.5 114.5				
10 DN250	29.00 737	8.00 203	265.0 120.2				
12 DN300	29.00 737	8.00 203	295.0 133.8				
14 DN350	29.00 737	8.00 203	305.0 138.3				
18 ² DN450	x	18 DN450	x				
				8 DN200	32.00 813	8.50 216	275.0 124.7
				12 DN300	32.00 813	8.50 216	347.0 157.4
				14 DN350	32.00 813	8.50 216	350.0 158.8
				16 DN400	32.00 813	8.50 216	362.0 164.2
				20 ² DN500	x	20 DN500	x
14 DN350	35.00 889	9.00 229	420.0 190.5				
16 DN400	35.00 899	10.00 229	425.0 192.8				
24 ² DN600	x	24 DN600	x				
				20 DN600	40.00 1016	10.00 254	570.0 258.6
				14 – 60 DN350 – DN1500			

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