



1.0 PRODUCT DESCRIPTION

Available Sizes:

- ¾ – 12"/20 – 300 mm.

Maximum Working Pressure:

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

Function:

- Connects pipe sections, provides change in direction, and adapts sizes or components.

All fittings are supplied with Victaulic Original Groove System (OGS) grooves. Fittings are exclusively for use with Victaulic couplings, valves, accessories and pipe which feature ends formed with the Victaulic OGS groove profile

Codes and requirements:

- Support hanger spacing correspond to ASME B31.1 Power Piping Code and ASME B31.9 Building Services Piping Code

2.0 CERTIFICATION/LISTINGS



NOTES

- See Victaulic submittal [publication 10.01](#) for details
- See Victaulic submittal [publication 02.06](#) for potable water approvals if applicable.

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	

3.0 MATERIAL SPECIFICATIONS (Continued)

Schedule 10S Material Specifications:

Note: Fittings are optionally available in Schedule 5S for 3 – 12"/80 - 300mm.

90° & 45° Elbows:

1 – 2 ½"/25 – 65 mm and 76.1 mm:

Schedule 10S, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 744/A 744M.

3 – 12"/80 – 300 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to ASTM A 403/A 403M.

22 ½° & 11 ¼° Elbows:

¾ – 12"/20 – 300 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

Tees:

1 – 1 ¼"/25 – 32 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to ASTM A 312/ A 312M, or sheet conforming to A 240/A 240M.

1 ½ – 2 ½"/40 – 65 mm and 76.1 mm:

Schedule 10S, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 744/A 744M.

3 – 12"/80 – 300 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to ASTM A 403/A 403M.

Reducing Tees:

1 ½ x 1 ½ x ¾ – 2 ½ x 2 ½ x 2"/40 x 40 x 20 – 65 x 65 x 50 mm and 76.1 x 76.1 x 60.3 mm:

Schedule 10S, Type 304L or 316L segmentally welded stainless steel from ASTM A 312/A 312M pipe.

3 x 3 x ¾ – 12 x 12 x 10"/80 x 80 x 20 – 300 x 300 x 250 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

Laterals, True Wyes, Crosses:

¾ – 12"/20 – 300 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

3.0 MATERIAL SPECIFICATIONS (Continued)

Schedule 10S Material Specifications:

Note: Fittings are optionally available in Sch. 5S for 3 – 12"/80 - 300mm.

Adapter Nipples:

$\frac{3}{4}$ – 12"/20 – 300 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from pipe conforming to ASTM A 312/A 312M.

Concentric Reducers:

1 $\frac{1}{2}$ x $\frac{3}{4}$ – 2 $\frac{1}{2}$ x 2"/40 x 20 – 65 x 50 mm and 76.1 x 60.3 mm:

Schedule 10S, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743 M and A 744/A 744M.

3 x 1 – 12 x 10"/80 x 25 – 300 x 250 mm:

Schedule 10S, Type 304 or 316 stainless steel roll grooved from material conforming to ASTM A 403/A 403M.

Eccentric Reducers:

1 $\frac{1}{2}$ x $\frac{3}{4}$ – 6 x 4"/40 x 20 – 150 x 100 mm:

Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to ASTM A 403/A403M, or pipe conforming to ASTM A 312/A

Caps:

$\frac{3}{4}$ – 12"/20 – 300 mm:

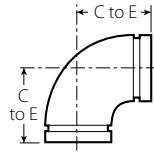
For use with Schedule 10S pipe, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 744/A 744M.

4.0 DIMENSIONS

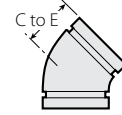
Elbows

No. 410 SS 90° Long Radius Elbow

No. 411 SS 45° Elbow



No. 410 SS



No. 411 SS

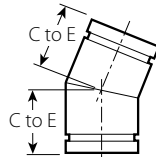
Size		No. 410 SS 90° Elbow		No. 411 SS 45° Elbow	
Nominal	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each
inches DN	inches mm	inches mm	lb kg	inches mm	lb kg
1 DN25	1.315 33.7	2.88 73	0.7 0.3	2.00 51	0.6 0.3
1¼ DN32	1.660 42.4	3.13 80	1.0 0.5	2.00 51	0.8 0.4
1½ DN40	1.900 48.3	3.50 89	1.4 0.6	2.13 54	1.0 0.5
2 DN50	2.375 60.3	4.50 114	2.2 1.0	2.75 70	1.6 0.7
2½	2.875 73.0	5.00 127	3.3 1.5	2.88 73	2.2 1.0
DN65	3.000 76.1	3.75 95	2.8 1.3	2.25 57	1.3 0.6
3 DN80	3.500 88.9	4.50 114	2.6 1.2	2.00 51	1.3 0.6
4 DN100	4.500 114.3	6.00 152	4.7 2.1	2.50 63	2.3 1.0
DN125	5.500 139.7	7.50 190	7.8 3.5	3.13 79	3.1 1.4
	6.500 165.1	9.00 229	10.8 4.9	3.75 95	5.3 2.4
6 DN150	6.625 168.3	9.00 229	11.0 5.0	3.75 95	5.5 2.5
216 JIS	8.000 216.3	12.00 305	20.7 9.4	5.00 127	9.7 4.4
8 DN200	8.625 219.1	12.00 305	21.2 9.6	5.00 127	11.0 5.0
267 JIS	10.000 267.4	15.00 381	35.7 16.2	6.25 159	17.7 8.0
10 DN250	10.750 273.0	15.00 381	36.6 16.6	6.25 159	18.5 8.4
318 JIS	12.000 318.5	18.00 457	54.2 24.6	7.50 190	21.1 9.6
12 DN300	12.750 323.9	18.00 457	59.6 27.0	7.50 190	28.4 12.9

4.0 DIMENSIONS (Continued)

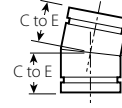
Elbows

No. 412 SS 22½° Elbow

No. 413 SS 11¼° Elbow



No. 412 SS



No. 413 SS

Size		No. 412 SS 22½° Elbow		No. 413 SS 11¼° Elbow	
Nominal	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each
inches DN	inches mm	inches mm	lb kg	inches mm	lb kg
¾ DN20	1.050 26.9	1.63 41	-	1.38 35	-
1 DN25	1.315 33.7	1.63 41	0.5 0.2	1.38 35	0.2 0.1
1¼ DN32	1.660 42.4	1.75 44	0.6 0.3	1.38 35	0.4 0.2
1½ DN40	1.900 48.3	1.75 44	0.6 0.3	1.38 35	0.4 0.2
2 DN50	2.375 60.3	1.88 48	1.0 0.5	1.38 35	0.7 0.3
2½	2.875 73.0	2.00 51	1.4 0.6	1.50 38	0.7 0.3
DN65	3.000 76.1	2.25 57	-	1.50 38	-
3 DN80	3.500 88.9	2.25 57	1.7 0.8	1.50 38	1.2 0.5
4 DN100	4.500 114.3	2.88 73	2.8 1.3	1.75 44	1.8 0.8
DN125	5.500 139.7	2.88 73	-	2.00 51	-
6 DN150	6.500 165.1	3.13 79	5.5 2.5	2.00 51	3.5 1.6
8 DN200	8.625 219.1	3.13 79	5.8 2.6	2.00 51	3.4 1.5
10 DN250	10.750 273.0	3.88 99	9.2 4.2	2.00 51	4.6 2.1
12 DN300	12.750 323.9	4.38 111	13.6 6.2	2.13 54	5.3 2.4
		4.88 124	19.2 8.7	2.25 57	14.1 6.4

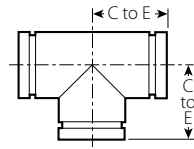
NOTE

All No. 412 SS and No. 413 SS elbows are segmentally welded stainless steel.

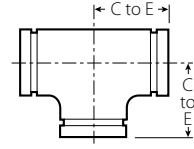
4.0 DIMENSIONS (Continued)

Tees

No. 420 SS



No. 420 SS



No. 420 SS

Size		No. 420 SS Tee		
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lb kg	
1 ^(sw) DN25 ^(sw)	1.315 33.7	2.25 57	0.7 0.3	
1¼ DN32	1.660 42.4	3.13 79	1.5 0.7	
1½ DN40	1.900 48.3	3.38 86	2.2 1.0	
2 DN50	2.375 60.3	2.75 70	2.4 1.1	
2½	2.875 73.0	3.13 79	3.7 1.7	
DN65	3.000 76.1	3.75 95	4.5 2.2	
3 DN80	3.500 88.9	3.75 95	3.1 1.4	
4 DN100	4.500 114.3	4.50 114	4.9 2.2	
DN125	5.500 139.7	5.25 133	7.9 3.6	
	6.500 165.1	5.88 149	11.3 5.1	
6 DN150	6.625 168.3	5.88 149	11.7 5.3	
216 JIS	8.000 216.3	7.75 197	20.3 9.2	
8 DN200	8.625 219.1	7.75 197	20.4 9.3	
267 JIS	10.000 267.4	8.88 226	33.9 15.4	
10 DN250	10.750 273.0	8.88 226	34.4 15.6	
318 JIS	12.000 318.5	10.38 264	48.4 22.0	
12 DN300	12.750 323.9	10.38 264	52.4 23.8	

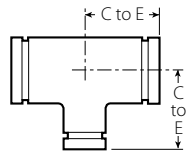
NOTE

(sw) denotes segmentally welded

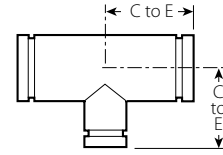
4.0 DIMENSIONS (Continued)

Reducing Tees

No. 425 SS



No. 425 SS



No. 425 SS

Nominal Size inches DN	No. 425 SS Reducing Tee			
	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lb kg	
1 1/2 DN40 x 1 1/2 DN40 x	3/4 ^(sw) DN20	2.75 70	1.3 0.6	
	1 ^(sw) DN25	2.75 70	1.4 0.6	
	1 1/4 ^(sw) DN32	2.75 70	1.5 0.7	
	2 DN50	3.07 78	3.5 1.6	
2 DN50 x 2 DN50 x	3/4 ^(sw) DN20	3.25 83	2.0 0.9	
	1 ^(sw) DN25	3.25 83	2.1 1.0	
	1 1/4 ^(sw) DN32	3.25 83	2.3 1.0	
	1 1/2 DN40	2.75 70	2.0 0.9	
	2 DN50	3.07 78	3.5 1.6	
2 1/2 x 2 1/2 x	3/4 ^(sw) DN20	3.75 95	2.8 1.3	
	1 ^(sw) DN25	3.75 95	3.0 1.4	
	1 1/2 ^(sw) DN40	3.75 95	3.5 1.6	
	2 DN50	3.07 78	3.5 1.6	
	3 DN80	3.77 96	3.23 82	3.1 1.4
3 DN80 x 3 DN80 x	3/4 ^(sw) DN20	4.25 108	4.0 1.8	
	1 ^(sw) DN25	4.25 108	4.1 1.9	
	1 1/4 ^(sw) DN32	4.25 108	4.2 1.9	
	1 1/2 ^(sw) DN40	4.25 108	4.3 2.0	
	2 DN50	3.77 96	3.1 1.4	
	2 1/2 DN50	3.77 96	3.1 1.4	
	3 DN80	3.77 96	3.23 82	3.1 1.4
	DN65	3.77 96	3.23 82	3.1 1.4

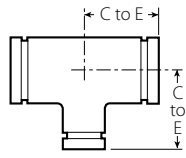
NOTE

(sw) denotes segmentally welded

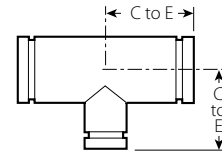
4.0 DIMENSIONS (Continued)

Reducing Tees

No. 425 SS



No. 425 SS



No. 425 SS

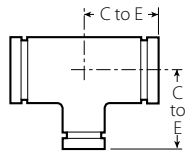
Nominal Size inches DN	No. 425 SS Reducing Tee		
	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each Lbs. kg
4 DN100 x 4 DN100 x 1 ^(sw) DN25	5.00 127	5.00 127	5.0 2.3
	5.00 127	5.00 127	5.3 2.4
	5.00 127	5.00 127	5.6 2.5
	4.47 114	3.88 99	4.9 2.2
	4.47 114	3.82 97	4.9 2.2
	4.47 114	3.82 97	4.9 2.2
	4.47 114	3.88 99	4.9 2.2
	4.47 114	3.88 99	4.9 2.2
DN125 x DN125 x DN88.9	5.28 134	4.38 111	6.85 3.1
	5.28 134	4.62 117	7.85 3.6
	5.28 134	4.62 117	7.85 3.6
6 DN150 x 6 DN150 x 2 ^(sw) DN50	6.50 165	6.50 165	11.6 5.3
	6.50 165	6.50 165	12.1 5.5
	5.91 150	4.88 124	8.8 4.0
	5.91 150	5.12 130	9.5 4.3
	5.91 150	5.12 130	9.5 4.3
8 DN200 x 8 DN200 x 2 1/2 ^(sw)	7.75 197	7.75 197	17.5 7.9
	7.75 197	7.75 197	18.0 8.2
	7.79 198	6.31 160	18.1 8.2
	7.79 198	6.62 168	18.5 8.4
	7.79 198	6.62 168	18.5 8.4

NOTE
(sw) denotes segmentally welded

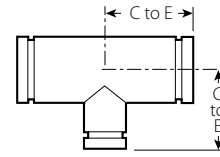
4.0 DIMENSIONS (Continued)

Reducing Tees

No. 425 SS



No. 425 SS



No. 425 SS

				No. 425 SS Reducing Tee			
Nominal Size inches DN			C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lb kg		
10 DN250	x	10 DN250	x	3 ^(sw) DN80	9.00 229	9.00 229	29.0 13.2
				4 ^(sw) DN100	9.00 229	9.00 229	30.0 13.6
				6 DN150	8.89 226	7.70 196	28.2 12.8
				8 DN200	8.89 226	8.59 218	31.3 14.2
				12 DN300	10.00 254	10.00 254	43.0 19.5
12 DN300	x	12 DN300	x	6 ^(sw) DN150	10.39 264	9.51 242	40.1 18.2
				8 DN200	10.39 264	9.89 251	47.6 21.6
				10 DN250	10.39 264	9.89 251	47.6 21.6

NOTE
(sw) denotes segmentally welded

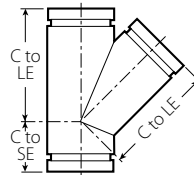
4.0 DIMENSIONS (Continued)

45° Laterals, True Wyes and Crosses

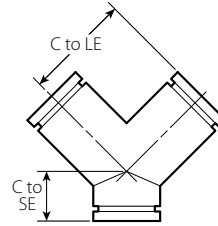
No. 430 SS 45° Lateral

No. 433 SS True Wye

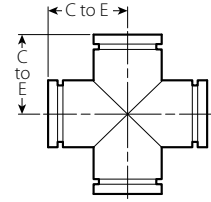
No. 435 SS Cross



No. 430 SS



No. 433 SS



No. 435 SS

Size		No. 430 SS 45° Lateral			No. 433 SS True Wye			No. 435 SS 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 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	4.50 114	2.00 51	0.8 0.4	2.25 57	2.00 51	0.6 0.3	2.25 57	0.7 0.3
1 DN25	1.315 33.7	5.00 127	2.25 57	1.4 0.6	2.25 57	2.25 57	0.9 0.4	2.25 57	1.1 0.5
1 1/4 DN32	1.660 42.4	5.75 146	2.50 64	1.9 0.9	2.75 70	2.50 64	1.2 0.5	2.75 70	1.6 0.7
1 1/2 DN40	1.900 48.3	6.25 159	2.75 70	2.6 1.2	2.75 70	2.75 70	1.4 0.6	2.75 70	1.9 0.9
2 DN50	2.375 60.3	7.00 178	2.75 70	3.3 1.5	3.25 83	2.75 70	1.8 0.8	3.25 83	2.7 1.2
2 1/2	2.875 73.0	7.75 197	3.00 76	5.3 2.4	3.75 95	3.00 76	2.5 1.1	3.75 95	3.6 1.6
3 DN80	3.500 88.9	8.50 216	3.25 83	6.5 2.9	4.25 108	3.25 83	3.4 1.5	4.25 108	5.8 2.6
4 DN100	4.500 114.3	10.50 267	3.75 95	11.2 5.1	5.00 127	3.75 95	5.1 2.3	5.00 127	8.0 3.6
6 DN150	6.625 168.3	14.00 356	4.50 114	20.9 9.5	6.50 165	4.50 114	10.7 4.9	6.50 165	13.4 6.1
8 DN200	8.625 219.1	18.00 457	6.00 152	33.1 15.0	7.75 197	6.00 152	16.6 7.5	7.75 197	22.1 10.0
10 DN250	10.750 273.0	20.50 521	6.50 165	47.5 21.5	9.00 229	6.50 155	31.6 14.3	9.00 229	54.9 24.9
12 DN300	12.750 323.9	23.00 584	7.00 178	79.2 35.9	10.00 254	7.00 178	38.4 17.4	10.00 254	52.8 23.9

NOTE

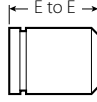
- All No. 430 SS, No. 433 SS and No. 435 SS fittings are segmentally welded.

4.0 DIMENSIONS (Continued)

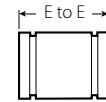
Adapter Nipples

No. 442 SS Grv. x Bev.

No. 443 SS Grv. x Grv.



No. 442 SS



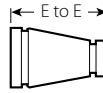
No. 443 SS

Size		No. 442 SS		No. 443 SS	
Nominal	Actual Outside Diameter	E to E	Approx. Weight Each	E to E	Approx. Weight Each
inches	inches	inches	lb	inches	lb
DN	mm	mm	kg	mm	kg
3/4	1.050	3.00	0.2	3.00	0.2
DN20	26.9	76	0.1	76	0.1
1	1.315	3.00	0.3	3.00	0.3
DN25	33.7	76	0.1	76	0.1
1 1/4	1.660	4.00	0.6	4.00	0.6
DN32	42.4	102	0.3	102	0.3
1 1/2	1.900	4.00	0.7	4.00	0.7
DN40	48.3	102	0.3	102	0.3
2	2.375	4.00	0.8	4.00	0.8
DN50	60.3	102	0.4	102	0.4
2 1/2	2.875	4.00	1.1	4.00	1.1
	73.0	102	0.5	102	0.5
3	3.500	4.00	1.2	4.00	1.2
DN80	88.9	102	0.5	102	0.5
4	4.500	6.00	2.8	6.00	2.8
DN100	114.3	152	1.3	152	1.3
6	6.625	6.00	4.6	6.00	4.6
DN150	168.3	152	2.1	152	2.1
8	8.625	6.00	6.5	6.00	6.5
DN200	219.1	152	2.9	152	2.9
10	10.750	8.00	12.2	8.00	12.2
DN250	273.0	203	5.5	203	5.5
12	12.750	8.00	15.8	8.00	15.8
DN300	323.9	203	7.2	203	7.2

4.0 DIMENSIONS (Continued)

Concentric Reducers

No. 450 SS



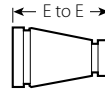
No. 450 SS

Nominal Size inches DN	Actual Outside Diameter inches mm	No. 450 SS Concentric Reducer	
		E to E Run inches mm	Approx. Weight Each lb kg
1 1/2 DN40 x 3/4 DN20	1.900 x 1.050 48.3 x 26.7	3.75 95	1.3 0.6
		3.75 95	1.4 0.6
		3.75 95	1.5 0.7
		3.75 95	2.0 0.9
2 DN50 x 3/4 DN20	2.375 x 1.050 60.3 x 26.7	3.75 95	2.1 1.0
		3.75 95	2.3 1.0
		3.75 95	1.3 0.6
		5.00 127	3.0 1.4
2 1/2 x 1 DN25	2.875 x 1.315 73.0 x 33.7	5.00 127	2.8 1.3
		5.00 127	1.7 0.8
		5.00 127	1.7 0.8
		5.00 127	1.7 0.8
DN65 x 60.3	3.000 x 2.375 76.1 x 60.3	2.50 64	1.7 0.8
		5.00 127	4.0 1.8
		5.00 127	4.1 1.9
		5.00 127	4.2 1.9
		5.00 127	1.6 0.7
		5.00 127	1.5 0.7
		5.00 127	1.5 0.7
		5.00 127	1.5 0.7
3 DN80 x 1 DN25	3.500 x 1.315 88.9 x 33.7	5.00 127	3.9 1.8
		5.00 127	5.8 2.6
		5.00 127	2.6 1.2
		5.00 127	5.8 2.6
		5.00 127	2.0 0.9
		5.00 127	2.0 0.9
4 DN100 x 2 DN50	4.500 x 2.375 114.3 x 60.3	5.00 127	5.8 2.6
		5.00 127	5.8 2.6
		5.00 127	2.0 0.9
		5.00 127	2.0 0.9

4.0 DIMENSIONS (Continued)

Concentric Reducers

No. 450 SS



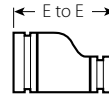
No. 450 SS

Nominal Size inches DN	Actual Outside Diameter inches mm	No. 450 SS Concentric Reducer	
		E to E Run inches mm	Approx. Weight Each lb kg
DN125 x DN88.9	5.500 139.7 x 3.500 88.9	5.00 127	3.0 1.4
		5.00 127	3.2 1.5
		5.00 127	3.2 1.5
6 DN150 x 2½ DN80	6.625 168.3 x 2.875 73.0	9.00 229	6.8 3.1
		5.50 140	4.0 1.8
		5.50 140	4.2 1.9
		5.50 140	4.5 2.0
		5.50 140	4.5 2.0
8 DN200 x 4 DN100	8.625 219.1 x 4.500 114.3	6.00 152	5.3 2.4
		6.00 152	6.1 2.8
		6.00 152	7.0 3.2
		6.00 152	7.0 3.2
10 DN250 x 6 DN150	10.750 273 x 6.625 168.3	7.00 178	8.8 4.0
		7.00 178	11.5 5.2
		7.00 178	11.5 5.2
12 DN300 x 8 DN200	12.750 323.9 x 8.625 219.1	8.00 203	13.2 6.0
		8.00 203	17.0 7.7
		8.00 203	17.0 7.7

4.0 DIMENSIONS (Continued)

Eccentric Reducers

No. 451 SS



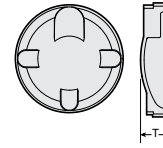
No. 451 SS

Nominal Size inches DN	Actual Outside Diameter inches mm	No. 451 SS Eccentric Reducer		
		E to E Run inches mm	Approx. Weight Each lb kg	
1½ DN40 x 1 DN25	1.900 48.3	1.315 33.7	3.75 95	1.4 0.6
	1.660 42.4	1.660 42.4	3.75 95	1.5 0.7
		2.375 60.3	1.315 33.7	3.75 95
2 DN50 x 1 DN25	2.375 60.3	1.315 33.7	3.75 95	2.1 1.0
	1.660 42.4	1.660 42.4	3.75 95	2.3 1.0
		1.900 48.3	1.900 48.3	3.75 95
2½ DN50 x 1½ DN32	2.875 73.0	1.900 48.3	5.00 127	3.0 1.4
	2.375 60.3	2.375 60.3	5.00 127	3.5 1.6
		3.500 88.9	1.900 48.3	5.00 127
3 DN80 x 1½ DN40	3.500 88.9	1.900 48.3	5.00 127	4.2 1.9
	2.375 60.3	2.375 60.3	5.00 127	4.3 2.0
		2.875 73.0	2.875 73.0	5.00 127
4 DN100 x 2 DN50	4.500 114.3	2.375 60.3	5.00 127	4.8 2.2
	2.875 73.0	2.875 73.0	5.00 127	5.8 2.6
		3.500 88.9	3.500 88.9	5.00 127
6 DN150 x 2½ DN80	6.625 168.3	2.875 73.0	9.00 229	6.8 3.1
	3.500 88.9	3.500 88.9	9.00 229	6.9 3.1
		4.500 114.3	4.500 114.3	9.00 229

4.0 DIMENSIONS (Continued)

Cap

No. 460 SS



No. 460 SS

Size		No. 460 SS Cap		
Nominal inches DN	Actual Outside Diameter inches mm	Thickness "T" inches mm	Maximum Tap Size inches	Approx. Weight Each lb kg
3/4 DN20	1.050 26.9	0.75 19	N/A	0.1 0.1
1 DN25	1.315 33.7	0.75 19	N/A	0.2 0.1
1 1/4 DN32	1.660 42.4	0.75 19	N/A	0.3 0.1
1 1/2 DN40	1.900 48.3	0.75 19	N/A	0.4 0.2
2 DN50	2.375 60.3	1.00 25	1/4	0.6 0.3
2 1/2	2.875 73.0	1.13 29	3/8	0.9 0.4
DN65	3.000 76.1	1.13 29	3/8	1.1 0.5
3 DN80	3.500 88.9	1.00 26	1/2	1.1 0.5
4 DN100	4.500 114.3	1.13 29	1/2	1.8 0.8
DN125	5.500 139.7	1.38 35	3/4	3.2 1.5
	6.500 165.1	1.75 44	3/4	4.1 1.9
6 DN150	6.625 168.3	1.75 44	3/4	4.0 1.8
216 JIS	8.000 216.3	2.25 57	3/4	7.0 3.2
8 DN200	8.625 219.1	2.25 57	3/4	7.0 3.2
267 JIS	10.000 267.4	2.75 70	2	7.5 3.4
10 DN250	10.750 273.0	2.75 70	2	17.8 8.1
318 JIS	12.000 318.5	3.25 83	2	26.3 12.0
12 DN300	12.750 323.9	3.25 83	2	26.7 12.1

3.1 MATERIAL SPECIFICATIONS (Continued)

Schedule 40S Material Specifications:

Note: Schedule 40S fittings in this document, except No. 410H SS and No. 411H SS, are segmentally welded stainless steel.

Elbows:

$\frac{3}{4}$ – 12"/20 – 300 mm:

Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to ASTM A 403/A403M.

Tees:

1 – 12"/25 – 300 mm:

Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

Reducing Tees:

2 x 2 x 1 – 12 x 12 x 10"/50 x 50 x 25 – 300 x 300 x 250 mm:

Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

Laterals, True Wyes, Crosses:

$\frac{3}{4}$ – 12"/20 – 300 mm:

Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312 M, or sheet conforming to ASTM A 240/A 240M.

Adapter Nipples:

$\frac{3}{4}$ – 12"/20 – 300 mm:

Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from pipe conforming to ASTM A 312/A 312 M.

Concentric Reducers:

2 x 1 – 12 x 10"/50 x 25 – 300 x 250 mm:

Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

Eccentric Reducers:

2 x 1 – 12 x 10"/50 x 25 – 300 x 250 mm:

Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

3.1 MATERIAL SPECIFICATIONS (Continued)

Schedule 40S Material Specifications:

Note: Schedule 40S fittings in this document, except No. 410H SS and No. 411H SS, are segmentally welded stainless steel.

Caps:

$\frac{3}{4}$ – 6"/20 – 150 mm:

For use with Schedule 40S pipe, Type 304L or 316L stainless steel conforming to ASTM A 403/A 403M.

8 – 12"/200 – 300 mm:

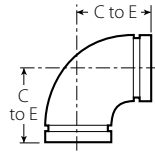
Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to ASTM A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

4.1 DIMENSIONS (Continued)

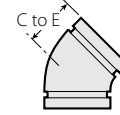
Elbows

No. 410H SS 90° Long Radius Elbow

No. 411H SS 45° Elbow



No. 410H SS



No. 411H SS

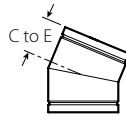
Size		No. 410H SS 90° Elbow		No. 411H SS 45° Elbow	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lb kg	C to E inches mm	Approx. Weight Each lb kg
1 DN25	1.315 33.7	2.88 73	0.7 0.3	2.25 57	0.6 0.3
1¼ DN32	1.660 42.4	3.25 83	1.3 0.6	2.38 61	0.9 0.4
1½ DN40	1.900 48.3	3.63 92	1.4 0.6	2.50 64	1.1 0.5
2 DN50	2.375 60.3	4.38 111	2.5 1.1	2.75 70	2.4 1.1
2½	2.875 73.0	5.13 130	3.8 1.7	3.13 80	2.8 1.3
3 DN80	3.500 88.9	5.88 149	5.4 2.4	3.38 86	4.1 1.9
4 DN100	4.500 114.3	7.50 191	12.0 5.4	4.00 102	4.8 2.2
6 DN150	6.625 168.3	10.75 273	29.3 13.3	5.50 140	17.0 7.7
8 DN200	8.625 219.1	14.25 362	59.0 26.8	7.25 184	34.0 15.4
10 DN250	10.750 273.0	17.25 438	99.0 44.9	8.50 216	58.3 26.4
12 DN300	12.750 323.9	20.50 521	142.0 64.4	10.00 254	85.0 38.6

4.1 DIMENSIONS (Continued)

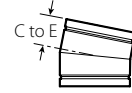
Elbows

No. 412H SS 22½° Elbow

No. 413H SS 11¼° Elbow



No. 412H SS



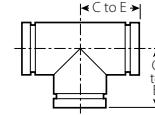
No. 413H SS

Size		No. 412H SS 22½° Elbow		No. 413H SS 11¼° 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	1.63 41	-	1.38 35	-
1 DN25	1.315 33.7	1.63 41	0.6 0.3	1.38 35	0.3 0.1
1¼ DN32	1.660 42.4	1.75 44	0.8 0.4	1.38 35	0.5 0.2
1½ DN40	1.900 48.3	1.75 44	0.8 0.4	1.38 35	0.5 0.2
2 DN50	2.375 60.3	1.88 48	1.4 0.6	1.38 35	1.0 0.5
2½	2.875 73.0	2.00 51	2.3 1.0	1.50 38	1.1 0.5
3 DN80	3.500 88.9	2.25 57	3.1 1.4	1.50 38	2.1 1.0
4 DN100	4.500 114.3	2.88 73	5.6 2.5	1.75 44	3.6 1.6
6 DN150	6.625 168.3	3.13 79	12.2 5.5	2.00 51	7.0 3.2
8 DN200	8.625 219.1	3.88 99	20.0 9.1	2.00 51	10.1 4.6
10 DN250	10.750 273.0	4.38 111	30.0 13.6	2.13 54	11.8 5.3
12 DN300	12.750 323.9	4.88 124	40.0 18.1	2.25 57	29.3 13.3

4.1 DIMENSIONS (Continued)

Tees

No. 420H SS



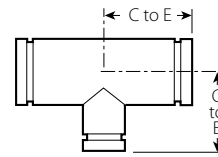
No. 420H SS

Size		No. 420H SS Tee		
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lb kg	
1 DN25	1.315 33.7	2.25 57	0.9 0.4	
1¼ DN32	1.660 42.4	2.75 70	1.5 0.7	
1½ DN40	1.900 48.3	2.75 70	1.7 0.8	
2 DN50	2.375 60.3	3.25 83	2.5 1.1	
2½	2.875 73.0	3.75 95	4.7 2.1	
3 DN80	3.500 88.9	4.25 108	7.0 3.2	
4 DN100	4.500 114.3	5.00 127	13.0 5.9	
6 DN150	6.625 168.3	6.50 165	26.4 12.0	
8 DN200	8.625 219.1	7.75 197	46.1 20.9	
10 DN250	10.750 273.0	9.00 229	71.5 32.4	
12 DN300	12.750 323.9	10.00 254	100.0 45.4	

4.1 DIMENSIONS (Continued)

Reducing Tees

No. 425H SS



No. 425H SS

Nominal Size inches DN	Actual Outside Diameter inches mm	No. 425H SS Reducing Tee	
		C to E Run inches mm	Approx. Weight Each lb kg
2 DN50 x 2 DN50 x 1 DN25	2.375 60.3 x 2.375 60.3 x 1.315 33.7	3.25 83	2.5 1.1
		3.25 83	2.8 1.3
		3.25 83	3.2 1.5
2 1/2 DN40 x 2 1/2 DN40 x 1 1/2 DN40	2.875 73.0 x 2.875 73.0 x 1.900 48.3	3.75 95	4.4 2.0
		3.75 95	4.5 2.0
3 DN80 x 3 DN80 x 1 1/2 DN40	3.500 88.9 x 3.500 88.9 x 1.900 48.3	4.25 108	4.5 2.0
		4.25 108	5.2 2.4
		4.25 108	5.6 2.5
4 DN100 x 4 DN100 x 2 DN50	4.500 114.3 x 4.500 114.3 x 2.375 60.3	5.00 127	10.2 4.6
		5.00 127	10.5 4.8
		5.00 127	11.6 5.3
6 DN150 x 6 DN150 x 2 DN50	6.625 168.3 x 6.625 168.3 x 2.375 60.3	6.50 165	22.0 10.0
		6.50 165	22.4 10.2
		6.50 165	22.8 10.3
8 DN200 x 8 DN200 x 2 1/2 DN65	8.625 219.1 x 8.625 219.1 x 3.500 88.9	7.75 197	35.0 15.9
		7.75 197	39.3 17.8
		7.75 197	45.0 20.4
		3.77 96	3.1 1.4
		3.77 96	3.1 1.4
10 DN250 x 10 DN250 x 4 DN100	10.750 323.9 x 10.750 323.9 x 4.500 88.9	9.00 229	63.0 28.6
		9.00 229	68.3 31.0
		9.00 229	71.0 32.2
12 DN300 x 12 DN300 x 6 DN150	12.750 323.9 x 12.750 323.9 x 6.625 168.3	10.00 254	73.0 33.1
		10.00 254	75.0 34.0
		10.00 254	77.0 34.9

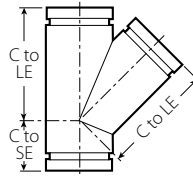
4.1 DIMENSIONS (Continued)

45° Laterals, True Wyes and Crosses

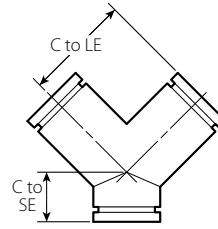
No. 430H SS 45° Lateral

No. 433H SS True Wye

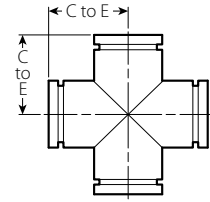
No. 435H SS Cross



No. 430H SS



No. 433H SS



No. 435H SS

Size		No. 430H SS 45° Lateral			No. 433H SS True Wye			No. 435H SS 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 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	1.050	4.50	2.00	1.0	2.25	2.00	0.7	2.25	0.9
DN20	26.9	114	51	0.5	57	51	0.3	57	0.4
1	1.315	5.00	2.25	1.7	2.25	2.25	1.1	2.25	1.3
DN25	33.7	127	57	0.8	57	57	0.5	57	0.6
1 1/4	1.660	5.75	2.50	2.5	2.75	2.50	1.5	2.75	2.1
DN32	42.4	146	64	1.1	70	64	0.7	70	1.0
1 1/2	1.900	6.25	2.75	3.5	2.75	2.75	1.8	2.75	2.5
DN40	48.3	159	70	1.6	70	70	0.8	70	1.1
2	2.375	7.00	2.75	4.6	3.25	2.75	2.5	3.25	3.8
DN50	60.3	178	70	2.1	83	70	1.1	83	1.7
2 1/2	2.875	7.75	3.00	9.0	3.75	3.00	4.3	3.75	6.1
	73.0	197	76	4.1	95	76	2.0	95	2.8
3	3.500	8.50	3.25	11.7	4.25	3.25	6.1	4.25	10.5
DN80	88.9	216	83	5.4	108	83	2.8	108	4.8
4	4.500	10.50	3.75	22.2	5.00	3.75	10.0	5.00	15.8
DN100	114.3	267	95	10.1	127	95	4.5	127	7.2
6	6.625	14.00	4.50	43.6	6.50	4.50	22.3	6.50	28.0
DN150	168.3	356	114	19.8	165	114	10.1	165	12.7
8	8.625	18.00	6.00	72.0	7.75	6.00	36.0	7.75	48.0
DN200	219.1	457	152	32.7	197	152	16.3	197	21.8
10	10.750	20.50	6.50	105.0	9.00	6.50	69.9	9.00	121.5
DN250	273.0	521	165	47.6	229	155	31.7	229	55.1
12	12.750	23.00	7.00	165.0	10.00	7.00	80.0	10.00	110.0
DN300	323.9	584	178	74.8	254	178	36.3	254	49.9

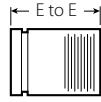
4.1 DIMENSIONS (Continued)

Adapter Nipples

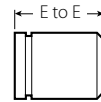
No. 440H SS Grv. x Thd.

No. 442H SS Grv. x Bev.

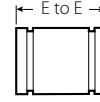
No. 443H SS Grv. x Grv.



No. 440H SS



No. 442H SS



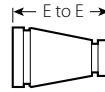
No. 443H SS

Size		No. 440H SS		No. 442H SS		No. 443H SS	
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
3/4 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
1 1/4 DN32	1.660 42.4	4.00 102	0.8 0.4	4.00 102	0.8 0.4	4.00 102	0.8 0.4
1 1/2 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 0.5	4.00 102	1.2 0.5	4.00 102	1.2 0.5
2 1/2	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
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
4 DN100	4.500 114.3	6.00 152	5.5 2.5	6.00 152	5.5 2.5	6.00 152	5.5 2.5
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	14.2 6.4	6.00 152	14.2 6.4	6.00 152	14.2 6.4
10 DN250	10.750 273.0	8.00 203	27.0 12.2	8.00 203	27.0 12.2	8.00 203	27.0 12.2
12 DN300	12.750 323.9	8.00 203	33.0 15.0	8.00 203	33.0 15.0	8.00 203	33.0 15.0

4.1 DIMENSIONS (Continued)

Concentric Reducers

No. 450H SS



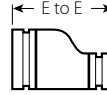
No. 450H SS

Nominal Size inches DN	Actual Outside Diameter inches mm	No. 450H SS Concentric Reducer	
		E to E Run inches mm	Approx. Weight Each lb kg
2 DN50 x 1 DN25	2.375 60.3 x 1.315 33.7	9.00	2.1
		229	1.0
	1.660 42.4	9.00	2.4
		229	1.1
1.900 48.3	9.00	2.5	
	229	1.1	
2½ x 1 DN25	2.875 73.0 x 1.315 33.7	9.50	3.2
		241	1.5
	1.660 42.4	9.50	3.4
		241	1.5
2.375 60.3	9.50	4.0	
	241	1.8	
3 DN80 x 1½ DN40	3.500 88.9 x 1.900 48.3	9.50	3.6
		241	1.6
	2.375 60.3	9.50	4.8
		241	2.2
2.875 73.0	9.50	5.5	
	241	2.5	
4 DN100 x 2 DN50	4.500 114.3 x 2.375 60.3	10.00	6.8
		254	3.1
	2.875 73.0	10.00	7.5
		254	3.4
3.500 88.9	10.00	8.6	
	254	3.9	
6 DN150 x 3 DN80	6.625 168.3 x 3.500 88.9	11.50	15.0
		292	6.8
	4.500 114.3	11.50	16.0
		292	7.3
8 DN200 x 4 DN100	8.625 219.1 x 4.500 114.3	12.00	24.0
		305	10.9
	6.625 168.3	12.00	26.0
		305	11.8
10 DN250 x 6 DN150	10.750 273.0 x 6.625 168.3	13.00	40.0
		330	18.1
	8.625 219.1	13.00	43.0
		330	19.5
12 DN300 x 8 DN200	12.750 323.9 x 8.625 219.1	14.00	52.5
		356	23.8
	10.750 273.0	14.00	57.0
		356	25.9

4.1 DIMENSIONS (Continued)

Eccentric Reducers

No. 451H SS



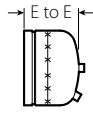
No. 451H SS

Nominal Size inches DN	Actual Outside Diameter inches mm	No. 451H SS Eccentric Reducer	
		E to E Run inches mm	Approx. Weight Each lb kg
2 DN50 x 1 DN25	2.375 60.3 x 1.315 33.7	9.00 229	2.1 1.0
		9.00 229	2.4 1.1
		9.00 229	2.5 1.1
		9.00 229	2.5 1.1
2½ x 1½ DN40	2.875 73.0 x 1.900 48.3	9.50 241	3.6 1.6
		9.50 241	4.0 1.8
		9.50 241	4.8 2.2
3 DN80 x 1½ DN40	3.500 88.9 x 1.900 48.3	9.50 241	3.6 1.6
		9.50 241	4.8 2.2
		9.50 241	5.5 2.5
4 DN100 x 2 DN50	4.500 114.3 x 2.375 60.3	10.00 254	6.8 3.1
		10.00 254	7.5 3.4
		10.00 254	8.6 3.9
		10.00 254	8.6 3.9
6 DN150 x 3 DN80	6.625 168.3 x 3.500 88.9	11.50 292	15.0 6.8
		11.50 292	16.0 7.3
8 DN200 x 4 DN100	8.625 219.1 x 4.500 114.3	12.00 305	24.0 10.9
		12.00 305	26.0 11.8
10 DN250 x 6 DN150	10.750 273.0 x 6.625 168.3	13.00 330	40.0 18.1
		13.00 330	43.0 19.5
12 DN300 x 8 DN200	12.750 323.9 x 8.625 219.1	14.00 356	52.5 23.8
		14.00 356	57.0 25.9

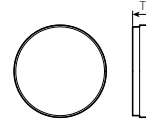
4.1 DIMENSIONS (Continued)

Cap

No. 460H SS



No. 460H SS
(8 – 12" sizes)



No. 460H SS
(3/4 – 6" sizes)

Size		No. 460H SS Cap		
Nominal inches DN	Actual Outside Diameter inches mm	Thickness "T" inches mm	Maximum Tap Size inches	Approx. Weight Each lb kg
3/4 DN20	1.050 26.9	0.91 23	N/A	0.2 0.10
1 DN25	1.315 33.7	0.91 23	N/A	0.3 0.14
1 1/4 DN32	1.660 42.4	0.94 24	1/2	0.6 0.27
1 1/2 DN40	1.900 48.3	0.94 24	3/4	0.7 0.32
2 DN50	2.375 60.3	0.94 24	1	1.2 0.54
2 1/2	2.875 73.0	0.97 25	1 1/2	1.7 0.77
3 DN80	3.500 88.9	0.97 25	2	2.6 1.18
4 DN100	4.500 114.3	1.03 26	2 1/2	4.6 2.09
6 DN150	6.625 168.3	1.03 26	3	10.1 4.58
8 ¹ DN200	8.625 219.1	6.25 159	*	21.8 9.89
10 ¹ DN250	10.750 273.0	7.25 184	*	34.0 15.42
12 ¹ DN300	12.750 323.9	8.50 216	*	47.9 21.73

¹ Denotes dish caps

* Contact Victaulic for tap sizes

NOTE

Sizes 8"– 12" have an End to End dimension of that listed. Thickness does not apply.

5.0 PERFORMANCE

Not Applicable

6.0 NOTIFICATIONS

 **WARNING**

- Victaulic RX roll sets must be used when grooving light-wall/thin-wall stainless steel pipe for use with Victaulic Couplings.

Failure to use Victaulic RX roll sets when grooving light-wall/thin-wall stainless steel pipe may cause joint failure, resulting in serious personal injury and/or property damage.

NOTICE

- Victaulic RX grooving rolls must be ordered separately. They are identified by a silver color and the designation RX on the front of the roll sets.

7.0 REFERENCE MATERIALS

[05.01: Seal Selection Guide](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, as well as Victaulic performance, maintenance, safety, and warning 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, installation guide, or this disclaimer.

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Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

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Reference should always be made to the Victaulic installation handbook or installation instructions of 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 www.victaulic.com.

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