

# Victaulic® Stainless Steel Schedule 10S OGS Fittings



17.16



## 1.0 PRODUCT DESCRIPTION

### Available Sizes

- ¾ – 12"/DN20 – DN300

### Maximum Working Pressure

- Fitting pressure ratings are equivalent to the pressure ratings of the coupling used to install them. Coupling pressure ratings are pipe wall thickness dependent. See [Section 7.0](#) – Reference Materials.

### Application

- 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 containing 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

#### NOTE

- Submittal 17.16 is for Schedule 10 Fittings only. Refer to Victaulic Publication 17.50 for Schedule 40 Fittings.

## 2.0 CERTIFICATIONS/LISTINGS



#### NOTES

- See [publication 02.06](#): Victaulic Potable Water Approvals ANSI/NSF/CAN for potable water approvals if applicable
- See [publication 10.01](#): Victaulic Certification Reference Guide for fire protection ratings and other certification/listing information

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



### 3.0 MATERIAL SPECIFICATIONS

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

#### Elbows:

- Standard: Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.
- Optional: 1 – 2 ½"/DN25 – 65 mm and 76.1 mm 90° and 45° Elbows available in Schedule 10S, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 774/A 744M.

#### Tees & Reducing Tees:

- Standard: Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.
- Optional: 1 ½ – 2 ½"/DN40 – 65 mm and 76.1mm Tees available in Schedule 10S, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 774/A 744M.

#### Laterals, True Wyes, Crosses:

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

#### Adapter Nipples:

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

#### Concentric Reducers:

- Standard: 1 ½ x ¾ – 2 ½" x 2"/DN40 x DN20 – 65 mm x DN50 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 743M and A 774/A 744M.
- Standard: 3 x 1 – 12 x 10"/DN80 x DN25 – DN300 x DN250 Schedule 10S, Type 304L or 316L stainless steel roll grooved from material conforming to A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

#### Eccentric Reducers:

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

#### Caps:

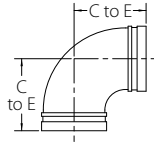
- Standard: For use with Schedule 10S pipe, Schedule 10S, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 774/A 744M.

## 4.0 DIMENSIONS

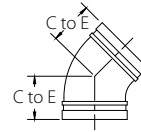
### Elbows

No. 410 SS 90° Long Radius Elbow

No. 411 SS 45° Elbow



No. 410 SS



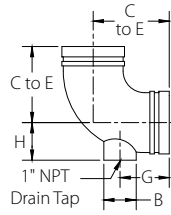
No. 411 SS

Size		No. 410 90° Elbow		No. 410 (SWS) 90° Elbow		No. 411 45° Elbow		No. 411 (SWS) 45° Elbow	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Weight Approx. (Each) lbs kg	C to E inches mm	Weight Approx. (Each) lbs kg	C to E inches mm	Weight Approx. (Each) lbs kg	C to E inches mm	Weight Approx. (Each) lbs kg
3/4 DN20	1.050 26.9	-	-	2.50 64	0.4 0.2	-	-	1.75 44	0.2 0.1
1 DN25	1.315 33.7	2.88 73	0.8 0.4	2.88 73	0.6 0.3	2.00 51	0.7 0.3	2.25 57	0.6 0.2
1 1/4 DN32	1.660 42.4	3.13 79	1.0 0.5	3.25 83	0.8 0.4	2.00 51	0.9 0.4	2.38 60	0.8 0.3
1 1/2 DN40	1.900 48.3	3.50 89	1.4 0.7	3.63 92	1.1 0.5	2.25 57	1.1 0.5	2.50 64	0.9 0.4
2 DN50	2.375 60.3	4.50 114	2.3 1.0	4.38 111	1.7 0.8	2.75 70	1.6 0.7	2.75 70	1.3 0.6
2 1/2	2.875 73.0	5.00 127	3.3 1.5	5.13 130	2.6 1.2	2.75 70	2.3 1.0	3.13 79	3.3 1.5
DN65	3.000 76.1	3.75 95	2.8 1.3	-	-	2.25 57	2.0 0.9	-	-
3 DN80	3.500 88.9	4.50 114	2.7 1.2	5.88 149	3.7 1.7	2.00 51	1.4 0.7	3.38 86	2.6 1.2
3 1/2 DN90	4.000 101.6	-	-	6.63 168	4.8 2.2	-	-	3.63 92	3.2 1.4
4 DN100	4.500 114.3	6.00 152	4.6 2.1	7.50 191	6.1 2.8	2.50 64	2.3 1.0	4.00 102	3.9 1.8
DN125	5.500 139.7	7.50 191	8.5 3.9	-	-	3.13 79	4.2 1.9	-	-
5	5.563 141.3	7.50 191	8.5 3.9	9.25 235	10.4 4.7	3.13 79	4.2 1.9	4.88 124	6.6 3.0
	6.500 165.1	9.00 229	11.3 5.1	-	-	3.75 95	5.6 2.6	-	-
6 DN150	6.625 168.3	9.00 229	11.5 5.2	10.75 273	14.4 6.5	3.75 95	5.8 2.6	5.50 140	8.9 4.0
200A	216.3	12.00 305	21.9 9.9	-	-	5.00 127	10.9 5.0	-	-
8 DN200	8.625 219.1	12.00 305	22.2 10.0	14.25 362	27.6 12.5	5.00 127	11.1 5.1	7.25 184	17.0 7.7
250A	267.4	15.00 381	35.7 16.2	-	-	6.25 159	18.9 8.6	-	-
10 DN250	10.750 273.0	15.00 381	36.6 16.6	17.25 438	46.6 21.1	6.25 159	19.4 8.8	8.50 216	27.6 12.5
300A	318.5	18.00 457	54.2 24.6	-	-	7.50 191	29.5 13.4	-	-
12 DN300	12.750 323.9	18.00 457	56.9 25.8	20.50 521	71.7 32.5	7.50 191	30.1 13.7	10.00 254	42.2 19.1

4.0 DIMENSIONS (CONTINUED)

Elbows

No 410-DR 90° Elbow



No. 410-DR

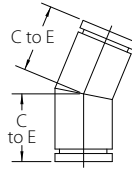
Size		No. 410-DR 90° Elbow					Approx. Weight Each
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	B inches mm	G inches mm	H inches mm		
2 DN50	2.375 60.3	4.38 111	1.63 41	2.75 70	1.88 48	2.0 0.9	
2½	2.875 73.0	5.13 130	1.63 41	2.75 70	2.13 54	2.9 1.3	
3 DN80	3.500 88.9	5.88 149	1.63 41	2.75 70	2.50 64	3.8 1.7	
4 DN100	4.500 114.3	7.50 191	1.63 41	2.75 70	3.63 92	6.4 2.9	
6 DN150	6.625 168.3	10.75 273	1.63 41	2.75 70	4.63 117	13.5 6.1	

## 4.0 DIMENSIONS (CONTINUED)

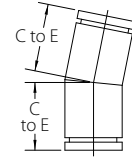
### Elbows

No. 412 SS 22½° Elbow

No. 413 SS 11¼° Elbow



No. 412 SS



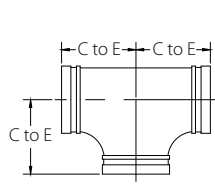
No. 413 SS

Size		No.412 (SWS) 22½° Elbow		No.413 (SWS) 11¼° Elbow	
Nominal	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Weight Approx. (Each)
inches DN	inches mm	inches mm	lbs kg	inches mm	lbs kg
¾ DN20	1.050 26.9	1.63 41	0.5 0.2	1.38 35	0.2 0.1
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	0.9 0.4	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	–	–	1.50 38	1.3 0.6
3 DN80	3.500 88.9	2.25 57	1.7 0.8	1.50 38	1.2 0.5
3½ DN90	4.000 101.6	2.50 64	–	1.75 44	–
4 DN100	4.500 114.3	2.88 73	2.8 1.3	1.75 44	1.7 0.8
DN125	5.500 139.7	2.88 73	3.3 1.5	–	–
5	5.563 141.3	2.88 73	3.8 1.7	2.00 51	–
6 DN150	6.625 168.3	3.13 79	5.8 2.6	2.00 51	3.4 1.5
8 DN200	8.625 219.1	3.88 98	9.2 4.2	2.00 51	4.6 2.1
10 DN250	10.750 273.0	4.38 111	13.6 6.2	2.13 54	5.3 2.4
12 DN300	12.750 323.9	4.88 124	19.2 8.7	2.25 57	14.1 6.4

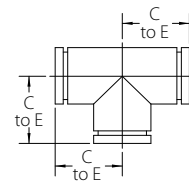
4.0 DIMENSIONS (CONTINUED)

Tees

No. 420 SS



No. 420 SS



No. 420 SS

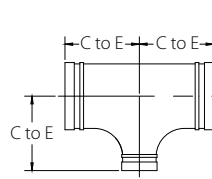
Size		No. 420 Tee		No. 420 (SWS) Tee	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lbs kg	C to E inches mm	Weight Approx. (Each) lbs kg
1 DN25	1.315 33.7	2.25 57	1.1 0.5	2.25 57	1.5 0.7
1 ¼ DN32	1.660 42.4	-	-	3.13 79	1.5 0.7
1 ½ DN40	1.900 48.3	3.38 86	2.2 1.0	3.38 86	1.8 0.8
2 DN50	2.375 60.3	2.75 70	2.5 1.1	3.25 83	2.4 1.1
2 ½	2.875 73.0	3.13 79	3.5 1.6	3.75 95	2.8 1.2
DN65	3.000 76.1	3.75 95	4.5 2.0	3.75 95	-
3 DN80	3.500 88.9	3.75 95	3.1 1.4	4.25 108	3.3 1.5
3 ½ DN90	4.000 101.6	-	-	4.63 117	-
4 DN100	4.500 114.3	4.50 114	4.9 2.2	5.00 127	4.1 1.9
DN125	5.500 139.7	5.25 133	7.9 3.6	5.25 133	7.9 3.6
5	5.563 141.3	5.25 133	10.0 4.5	5.50 140	9.1 4.1
	6.500 165.1	5.88 149	11.2 5.1	5.88 149	-
6 DN150	6.625 168.3	5.88 149	11.7 5.3	6.50 165	12.9 5.8
200A	216.3	7.75 197	20.3 9.2	7.75 197	12.7 5.8
8 DN200	8.625 219.1	7.75 197	20.4 9.3	7.75 197	26.0 11.8
250A	267.4	8.88 225	33.9 15.4	8.88 225	50.7 23.0
10 DN250	10.750 273.0	8.88 225	34.4 15.6	8.88 225	42.1 19.1
300A	318.5	10.38 264	48.4 22.0	10.38 264	-
12 DN300	12.750 323.9	10.38 264	52.4 23.8	10.00 254	-



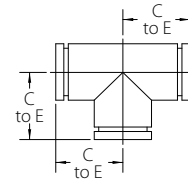
4.0 DIMENSIONS (CONTINUED)

Reducing Tees

No. 425 SS



No. 425 SS



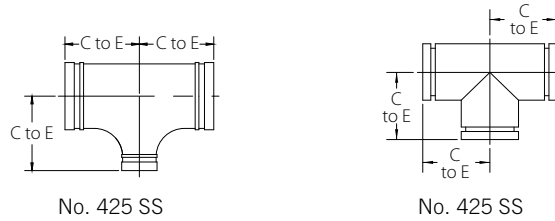
No. 425 SWS

Size				No. 425 Grooved Branch Reducing Tee			No. 425 (SWS) Grooved Branch Reducing Tee						
Nominal inches DN		Actual Outside Diameter inches mm		C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg				
3 1/2 DN90	x	3 1/2 DN90	x	1 1/2 DN40	4.000	4.000	1.900	-	-	-	4.63	4.63	-
					101.6	101.6	48.3	-	-	-	117	117	-
							2.375	-	-	-	4.63	4.63	-
							60.3	-	-	-	117	117	-
							2.875	-	-	-	4.63	4.63	-
		73.0	-	-	-	117	117	-					
		3.500	-	-	-	4.63	4.63	-					
		88.9	-	-	-	117	117	-					
4 DN100	x	4 DN100	x	1 DN25	4.500	4.500	1.315	-	-	-	5.00	5.00	5.0
					114.3	114.3	33.7	-	-	-	127	127	2.3
							1.660	-	-	-	5.00	5.00	5.3
							42.4	-	-	-	127	127	2.4
							1.900	-	-	-	5.00	5.00	5.6
							48.3	-	-	-	127	127	2.5
							2.375	4.50	3.88	4.9	4.50	3.88	4.9
							60.3	114	98	2.2	114	98	2.2
							3.000	4.50	3.88	4.9	4.50	3.88	4.9
							76.1	114	98	2.2	114	98	2.2
		2.875	4.50	3.88	4.9	4.50	3.88	4.9					
		73.0	114	98	2.2	114	98	2.2					
		3.500	4.50	3.88	4.9	4.50	3.88	4.9					
		88.9	114	98	2.2	114	98	2.2					
DN125	x	DN125	x	3 DN80	5.500	5.500	3.500	5.25	4.38	6.9	5.25	4.38	-
					139.7	139.7	88.9	133	111	3.1	133	111	-
							4.500	5.25	4.63	7.9	5.25	4.63	12.1
		114.3	133	117	3.6	133	117	5.5					
5	x	5	x	1 DN25	5.563	5.563	1.315	-	-	-	5.50	5.50	10.6
					141.3	141.3	33.7	-	-	-	140	140	4.8
							1.900	-	-	-	5.50	5.50	-
							48.3	-	-	-	140	140	-
							2.375	-	-	-	5.50	5.50	-
							60.3	-	-	-	140	140	-
							2.875	-	-	-	5.50	5.50	-
							73.0	-	-	-	140	140	-
		3.500	-	-	-	5.50	5.50	11.6					
		88.9	-	-	-	140	140	5.3					
		4.500	-	-	-	5.50	5.50	8.6					
		114.3	-	-	-	140	140	3.9					
x				3 DN80	6.500	6.500	3.500	5.88	4.88	9.5	6.50	6.50	13.2
					165.1	165.1	88.9	149	124	4.3	165	165	6.0
							4.500	5.88	5.13	9.5	6.50	6.50	16.5
							114.3	149	130	4.3	165	165	7.5
		5.500	5.88	5.38	10.4	6.50	6.50	17.6					
		139.7	149	137	4.7	165	165	8.0					

4.0 DIMENSIONS (CONTINUED)

Reducing Tees

No. 425 SS

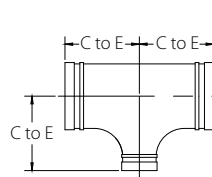


Size			Actual Outside Diameter			No. 425 Grooved Branch Reducing Tee			No. 425 (SWS) Grooved Branch Reducing Tee					
Nominal inches DN			inches	mm		C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg			
6 DN150	x	6 DN150	x	6.625 168.3	x	6.625 168.3	x	1.315 33.7	-	-	-	6.50 165	6.50 165	13.2 6.0
								1.900 48.3	-	-	-	6.50 165	6.50 165	12.8 5.8
								2.375 60.3	6.50 165	5.50 140	22.0 10.0	6.50 165	6.50 165	22.0 10.0
								2.875 73.0	-	-	-	6.50 165	6.50 165	12.1 5.5
								3.000 76.1	-	-	-	6.50 165	6.50 165	13.2 6.0
								3.500 88.9	5.88 149	4.88 124	8.8 4.0	6.50 165	6.50 165	22.4 10.2
								4.500 114.3	5.88 149	5.13 130	9.5 4.3	6.50 165	6.50 165	22.8 10.3
								5.500 139.7	5.88 149	5.38 137	-	6.50 165	6.50 165	-
								5.563 141.3	-	-	-	6.50 165	6.50 165	13.3 6.0
								x	x	4 DN100	x	8.515 216.3	x	8.515 216.3
5.500 139.7	7.75 197	6.50 165	17.6 8.0	-	-	-								
6.500 165.1	7.75 197	6.63 168	18.3 8.3	7.75 197	7.75 197	24.3 11.0								
8 DN200	x	8 DN200	x	8.625 219.1	x	8.625 219.1	x	2.875 73.0	-	-	-	7.75 197	7.75 197	35.0 15.9
								3.500 88.9	-	-	-	7.75 197	7.75 197	39.3 17.8
								4.500 114.3	7.75 197	6.25 159	18.1 8.2	7.75 197	6.25 159	17.6 8.0
								5.500 139.7	7.75 197	6.50 165	-	7.75 197	7.75 197	21.5 9.7
								5.563 141.3	-	-	-	7.75 197	7.75 197	20.3 9.2
								6.625 168.3	7.75 197	6.63 168	18.5 8.4	7.75 197	6.63 168	20.3 9.2
x	x	DN125	x	10.528 267.4	x	10.528 267.4	x	5.500 139.7	8.88 225	7.75 197	35.0 15.9	8.50 216	8.50 216	28.7 13.0
								6.500 165.1	8.88 225	7.75 197	29.5 13.4	-	-	-
								8.515 216.3	8.88 225	8.63 219	30.0 13.6	9.00 229	9.00 229	39.7 18.0
								5.500 139.7	8.88 225	7.75 197	35.0 15.9	8.50 216	8.50 216	28.7 13.0

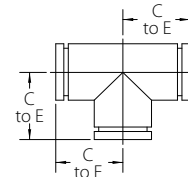
4.0 DIMENSIONS (CONTINUED)

Reducing Tees

No. 425 SS



No. 425 SS



No. 425 SS

Size			Actual Outside Diameter			No. 425 Grooved Branch Reducing Tee			No. 425 (SWS) Grooved Branch Reducing Tee						
Nominal inches DN			inches	mm		C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg				
10 DN250	x	10 DN250	x	3 DN80	10.750 273.0	x	10.750 273.0	x	3.500 88.9	-	-	-	9.00 229	9.00 229	29.0 13.2
				4 DN100					4.500 114.3	-	-	-	9.00 229	9.00 229	63.0 28.6
				5					5.563 141.3	-	-	-	9.00 229	9.00 229	-
				6 DN150					6.625 168.3	8.88 225	7.75 197	28.2 12.8	8.88 225	7.75 197	28.2 12.8
				8 DN200					8.625 219.1	8.88 225	8.63 219	31.3 14.2	8.88 225	8.63 219	-
	x		x		12.539 318.5	x	12.539 318.5	x	6.500 165.1	10.38 264	9.50 241	45.0 20.4	-	-	-
									8.515 216.3	10.38 264	9.50 241	39.6 18.0	-	-	-
									10.528 267.4	10.38 264	9.88 251	44.0 20.0	-	-	-
12 DN300	x	12 DN300	x	3 DN80	12.750 323.9	x	12.750 323.9	x	3.500 88.9	-	-	-	10.00 254	10.00 254	42.2 19.1
				6 DN150					6.625 168.3	-	-	-	10.00 254	10.00 254	50.7 23.0
				8 DN200					8.625 219.1	10.38 264	9.50 241	40.1 18.2	10.38 264	9.50 241	52.9 24.0
				10 DN250					10.750 273.0	10.38 264	9.88 251	47.6 21.6	10.38 264	9.88 251	-

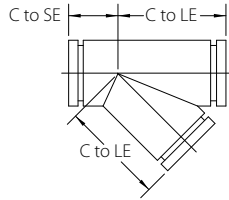
4.0 DIMENSIONS (CONTINUED)

45° Laterals, True Wyes and Crosses

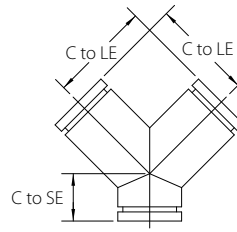
No. 430 SS 45° Lateral

No. 433 SS True Wye

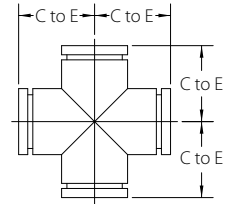
No. 435 SS Cross



No. 430 SS



No. 433 SS



No. 435 SS

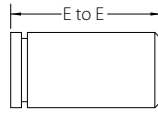
Size		No.430 (SWS) 45° Lateral			No.433 (SWS) True Wye			No.435 (SWS) Cross	
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lbs kg	C to LE inches mm	C to SE inches mm	Weight Approx. (Each) lbs kg	C to E inches mm	Weight Approx. (Each) lbs 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
3 1/2 DN90	4.000 101.6	10.00 254	3.50 89	-	4.63 117	3.50 89	-	4.63 117	-
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
5	5.563 141.3	12.50 318	4.00 102	24.8 11.2	5.50 140	4.00 102	-	5.50 140	-
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	6.50 165	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

4.0 DIMENSIONS (CONTINUED)

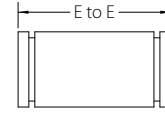
Adapter Nipples

No. 442 SS Grv. x Bev.

No. 443 SS Grv. x Grv.



No. 442 SS



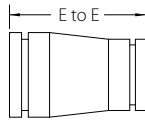
No. 443 SS

Size		No.442 Adapter Nipple GRV X BEV		No.443 Adapter Nipple GRV XGRV	
Nominal	Actual Outside Diameter	E to E	Approx. Weight Each)	E to E	Approx. Weight Each)
inches DN	inches mm	inches mm	lbs kg	inches mm	lbs kg
3/4 DN20	1.050 26.9	3.00 76	0.2 0.1	3.00 76	0.2 0.1
1 DN25	1.315 33.7	3.00 76	0.3 0.1	3.00 76	0.3 0.1
1 1/4 DN32	1.660 42.4	4.00 102	0.6 0.3	4.00 102	0.6 0.3
1 1/2 DN40	1.900 48.3	4.00 102	0.7 0.3	4.00 102	0.7 0.3
2 DN50	2.375 60.3	4.00 102	0.8 0.4	4.00 102	0.8 0.4
2 1/2	2.875 73.0	4.00 102	1.3 0.6	4.00 102	1.3 0.6
3 DN80	3.500 88.9	4.00 102	1.3 0.6	4.00 102	1.3 0.6
3 1/2 DN90	4.000 101.6	4.00 102	-	4.00 102	-
4 DN100	4.500 114.3	6.00 152	2.8 1.3	6.00 152	2.8 1.3
DN125	5.500 139.7	6.00 152	4.4 2.0	-	-
5	5.563 141.3	6.00 152	-	6.00 152	-
6 DN150	6.625 168.3	6.00 152	4.5 2.0	6.00 152	4.5 2.0
8 DN200	8.625 219.1	6.00 152	6.5 2.9	6.00 152	6.5 2.9
10 DN250	10.750 273.0	8.00 203	12.2 5.5	8.00 203	12.2 5.5
12 DN300	12.750 323.9	8.00 203	15.8 7.2	8.00 203	15.8 7.2

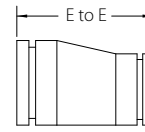
### 4.0 DIMENSIONS (CONTINUED)

#### Concentric Reducers

No. 450 SS  
No. 451 SS



No. 450 SS



No. 451 SS

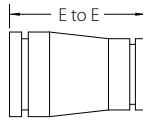
Size		Actual Outside Diameter		No. 450 Concentric Reducer		No. 450 (SWS) Concentric Reducer		No. 451 Eccentric Reducer		No. 451 (SWS) Eccentric Reducer	
Nominal inches DN	x DN	inches	mm	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg
1 DN25	x 3/4 DN20	1.315 33.7	x 1.050 26.9	-	-	8.00 203	-	-	-	8.00 203	-
1 1/4 DN32	x 3/4 DN20	1.660 42.4	x 1.050 26.9	-	-	8.00 203	-	-	-	8.00 203	-
	1 DN25		1.315 33.7	-	-	8.00 203	-	-	-	8.00 203	-
1 1/2 DN40	x 3/4 DN20	1.900 48.3	x 1.050 26.9	3.75 95	1.3 0.6	8.50 216	-	-	-	8.50 216	-
	1 DN25		1.315 33.7	3.75 95	1.3 0.6	8.50 216	-	3.75 95	1.4 0.6	8.50 216	-
	1 1/4 DN32		1.660 42.4	3.75 95	1.5 0.7	8.50 216	-	3.75 95	1.5 0.7	8.50 216	-
2 DN50	x 3/4 DN20	2.375 60.3	x 1.050 26.9	3.75 95	2.0 0.9	9.00 229	-	-	-	9.00 229	-
	1 DN25		1.315 33.7	3.75 95	2.1 1.0	9.00 229	4.0 1.8	3.75 95	2.1 1.0	3.75 95	-
	1 1/4 DN32		1.660 42.4	3.75 95	2.8 1.3	9.00 229	-	3.75 95	2.3 1.0	9.00 229	-
	1 1/2 DN40		1.900 48.3	5.00 127	1.3 0.6	9.00 229	3.3 1.5	3.75 95	2.5 1.1	9.00 229	3.3 1.5
2 1/2	x 3/4 DN20	2.875 73.0	x 1.050 26.9	-	-	9.50 241	-	-	-	9.50 241	-
	1 DN25		1.315 33.7	5.00 127	3.0 1.4	9.50 241	-	-	-	9.50 241	-
	1 1/4 DN32		1.660 42.4	5.00 127	2.3 1.0	9.50 241	-	-	-	9.50 241	4.0 1.8
	1 1/2 DN40		1.900 48.3	5.00 127	2.3 1.0	9.50 241	-	5.00 127	3.0 1.4	5.00 127	3.0 1.4
	2 DN50		2.375 60.3	5.00 127	1.7 0.8	9.50 241	3.5 1.6	5.00 127	3.5 1.6	9.50 241	3.3 1.5
DN65	x 2 DN50	3.000 76.1	x 2.375 60.3	2.50 64	1.0 0.5	-	-	-	-	-	-
3 DN80	x 3/4 DN20	3.500 88.9	x 1.050 26.9	-	-	9.50 241	-	-	-	9.50 241	-
	1 DN25		1.315 33.7	5.00 127	4.0 1.8	9.50 241	4.0 1.8	5.00 127	4.0 1.8	9.50 241	4.0 1.8
	1 1/4 DN32		1.660 42.4	5.00 127	1.6 0.7	9.50 241	-	5.00 127	4.1 1.9	9.50 241	-
	1 1/2 DN40		1.900 48.3	5.00 127	1.6 0.7	9.50 241	4.4 2.0	5.00 127	4.2 1.9	5.00 127	6.8 3.1
	2 DN50		2.375 60.3	5.00 127	1.6 0.7	9.50 241	4.9 2.2	5.00 127	4.3 2.0	5.00 127	5.0 2.3
	2 1/2		2.875 73.0	5.00 127	1.5 0.7	9.50 241	1.5 0.7	5.00 127	4.5 2.0	9.50 241	4.4 2.0
	DN65		3.000 76.1	5.00 127	1.5 0.7	9.50 241	-	-	-	9.50 241	-
3 1/2 DN90	3 DN80	4.000 101.6	3.500 88.9	-	-	10.00 254	-	-	-	10.00 254	-

## 4.0 DIMENSIONS (CONTINUED)

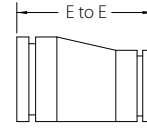
### Concentric Reducers

No. 450 SS

No. 451 SS



No. 450 SS



No. 451 SS

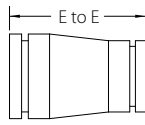
Size		Actual Outside Diameter		No. 450 Concentric Reducer		No. 450 (SWS) Concentric Reducer		No. 451 Eccentric Reducer		No. 451 (SWS) Eccentric Reducer		
Nominal inches DN		inches	mm	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	
4 DN100	x 1 DN25	4.500 114.3	1.315 33.7	-	-	10.00 254	-	-	-	10.00 254	-	
			1 1/4 DN32	1.660 42.4	-	-	10.00 254	-	-	-	10.00 254	-
				1.900 48.3	-	-	10.00 254	-	-	-	10.00 254	-
				2 DN50	2.375 60.3	5.00 127	3.9 1.8	10.00 254	5.5 2.5	5.00 127	4.8 2.2	5.00 127
				2.875 73.0	5.00 127	5.8 2.6	10.00 254	5.8 2.6	5.00 127	5.8 2.6	10.00 254	6.6 3.0
				2 1/2	3.000 76.1	5.00 127	5.8 2.6	10.00 254	-	-	-	10.00 254
				3.500 88.9	5.00 127	2.0 0.9	10.00 254	6.6 3.0	5.00 127	5.9 2.7	5.00 127	6.0 2.7
				3 1/2 DN90	4.000 101.6	-	-	10.00 254	-	-	-	10.00 254
	DN125	x 3 DN80	5.500 139.7	3.500 88.9	5.00 127	2.6 1.2	-	-	-	-	-	-
		4 DN100		4.500 114.3	5.00 127	2.9 1.3	-	-	-	-	-	-
5	x 2 DN50	5.563 141.3	2.375 60.3	-	-	11.00 279	-	-	-	11.00 279	-	
			2 1/2	2.875 73.0	-	-	11.00 279	-	-	-	11.00 279	-
				3.500 88.9	-	-	11.00 279	-	-	-	11.00 279	-
				3 1/2	4.000 101.6	-	-	11.00 279	-	-	-	11.00 279
	4 DN100	4.500 114.3	-	-	11.00 279	6.6 3.0	-	-	11.00 279	8.6 3.9		
x 3 DN80	6.500 165.1	3.500 88.9	5.50 140	4.0 1.8	-	-	-	-	-	-	-	
		4 DN100	4.500 114.3	5.50 140	4.2 1.9	-	-	-	-	-	-	
		DN125	5.500 139.7	5.50 140	4.4 2.0	-	-	-	-	-	-	
6 DN150	x 1 DN25	6.625 168.3	1.315 33.7	-	-	11.50 292	-	-	-	11.50 292	-	
			1 1/2 DN40	1.900 48.3	-	-	11.50 292	-	-	-	11.50 292	-
				2.375 60.3	-	-	11.50 292	-	-	-	11.50 292	-
				2 1/2	2.875 73.0	9.00 229	6.8 3.1	11.50 292	-	-	-	9.00 229
				3.500 88.9	5.50 140	4.0 1.8	11.50 292	16.0 7.3	5.50 140	6.9 3.1	11.50 292	11.0 5.0
				4 DN100	4.500 114.3	5.50 140	4.2 1.9	11.50 292	8.4 3.8	5.50 140	7.0 3.2	11.50 292
				5.500 139.7	5.50 140	4.5 2.0	11.50 292	-	-	-	11.50 292	-
				5	5.563 141.3	5.50 140	4.5 2.0	11.50 292	-	-	-	11.50 292

4.0 DIMENSIONS (CONTINUED)

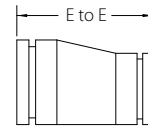
Concentric Reducers

No. 450 SS

No. 451 SS



No. 450 SS



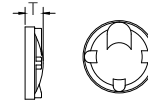
No. 451 SS

Size		Actual Outside Diameter		No. 450 Concentric Reducer		No. 450 (SWS) Concentric Reducer		No. 451 Eccentric Reducer		No. 451 (SWS) Eccentric Reducer		
Nominal inches DN		inches	mm	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	
4 DN100	x	8.515 216.3	4.500 114.3	6.00	5.3	-	-	-	-	-	-	
				152	2.4	-	-	-	-	-	-	-
				6.00	8.5	-	-	-	-	-	-	-
				152	3.9	-	-	-	-	-	-	-
DN125	x	8.515 216.3	5.500 139.7	6.00	6.6	-	-	-	-	-	-	
				152	3.0	-	-	-	-	-	-	-
				6.00	-	-	-	-	-	-	-	-
				152	-	-	-	-	-	-	-	-
8 DN200	x	8.625 219.1	2.875 73.0	-	-	12.00	-	-	-	12.00	-	
				-	-	305	-	-	-	305	-	
				3.500	-	12.00	-	-	-	12.00	7.0	
				88.9	-	305	-	-	-	305	3.2	
				4.500	6.00	5.3	12.00	14.8	6.00	11.2	12.00	-
				114.3	152	2.4	305	6.7	152	5.1	305	-
DN100	x	8.625 219.1	5.500 139.7	6.00	6.1	12.00	-	-	-	12.00	-	
				152	2.8	305	-	-	-	305	-	
				6.500	-	12.00	-	-	-	12.00	-	
				165.1	-	305	-	-	-	305	-	
6 DN150	x	8.625 219.1	6.625 168.3	6.00	7.0	12.00	-	6.00	13.7	12.00	15.4	
				152	3.2	305	-	152	6.2	305	7.0	
250A	x	267.4	6.500 165.1	7.00	8.6	-	-	-	-	-	-	
				178	3.9	-	-	-	-	-	-	-
10 DN250	x	10.750 273.0	4.500 114.3	-	-	13.00	25.4	-	-	13.00	-	
				-	-	330	11.5	-	-	330	-	
				5.500	-	13.00	-	-	-	13.00	-	
				139.7	-	330	-	-	-	330	-	
6 DN150	x	10.750 273.0	6.625 168.3	7.00	8.8	13.00	43.0	7.00	-	13.00	-	
				178	4.0	330	19.5	178	-	330	-	
8 DN200	x	10.750 273.0	8.625 219.1	7.00	11.5	13.00	25.4	7.00	-	13.00	11.0	
				178	5.2	330	11.5	178	-	330	5.0	
300A	x	318.5	6.500 165.1	8.00	13.1	-	-	-	-	-	-	
				203	5.9	-	-	-	-	-	-	
				8.515	8.00	13.2	-	-	-	-	-	
250A	x	318.5	8.515 216.3	8.00	13.2	-	-	-	-	-	-	
				203	6.0	-	-	-	-	-	-	
12 DN300	x	12.750 323.9	4.500 114.3	-	-	14.00	29.8	-	-	14.00	-	
				-	-	356	13.5	-	-	356	-	
6 DN150	x	12.750 323.9	6.625 168.3	-	-	14.00	23.3	-	-	14.00	-	
				-	-	356	10.6	-	-	356	-	
8 DN200	x	12.750 323.9	8.625 219.1	8.00	13.2	14.00	30.9	8.00	26.9	14.00	-	
				203	6.0	356	14.0	203	12.2	356	-	
10 DN250	x	12.750 323.9	10.750 273.0	8.00	17.0	14.00	39.0	8.00	30.0	14.00	-	
				203	7.7	356	17.7	203	13.6	356	-	

4.0 DIMENSIONS (CONTINUED)

Cap

No. 460 SS



No. 460 SS

Size		No. 460 (Casting) Cap			No. 460 (Flat) Cap		
Nominal inches DN	Actual Outside Diameter inches mm	T inches mm	Maximum Tap Size inches	Approx. Weight Each lbs kg	T inches mm	Maximum Tap Size inches	Approx. Weight Each lbs kg
3/4 DN20	1.050 26.9	0.75 19	–	0.1 0.1	0.88 22	–	0.2 0.1
1 DN25	1.315 33.7	0.75 19	–	0.2 0.1	0.88 22	–	0.3 0.1
1 1/4 DN32	1.660 42.4	0.75 19	–	0.3 0.1	1.00 25	1/2	0.6 0.3
1 1/2 DN40	1.900 48.3	0.75 19	–	0.4 0.2	1.00 25	3/4	0.7 0.3
2 DN50	2.375 60.3	1.00 25	–	0.6 0.3	1.00 25	1	1.2 0.5
2 1/2	2.875 73.0	1.00 25	–	0.9 0.4	1.00 25	1 1/2	2.9 1.3
DN65	3.000 76.1	1.00 25	–	1.1 0.5	1.00 25	1 1/2	–
3 DN80	3.500 88.9	1.00 25	1/2	1.1 0.5	1.00 25	2	2.6 1.2
4 DN100	4.500 114.3	1.13 29	1/2	1.8 0.8	1.00 25	2 1/2	4.6 2.1
4 1/2	5.000 127.0	–	–	–	1.00 25	–	–
DN125	5.500 139.7	1.38 35	3/4	1.8 0.8	1.00 25	3	–
5	5.563 141.3	–	–	–	1.00 25	3	10.1 4.6
	6.500 165.1	1.75 44	3/4	4.1 1.8	–	–	–
6 DN150	6.625 168.3	1.75 44	3/4	4.0 1.8	1.00 25	3	10.1 4.6
200A	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	1.25 32	4	21.8 9.9
250A	267.4	2.75 70	2	7.5 3.4	–	–	–
10 DN250	10.750 273.0	2.75 70	2	17.8 8.1	1.25 32	4	34.0 15.4
300A	318.5	3.25 83	2	–	–	–	–
12 DN300	12.750 323.9	3.25 83	2	26.7 12.1	1.25 32	4	47.9 21.7

NOTE

- End caps are available with an NPT/BSPT tapped port. Contact Victaulic for more information.

## 5.0 PERFORMANCE

Not Applicable

## 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 read and follow the [I-ENDCAP](#), Victaulic End Cap Installation Safety Instructions, which can be downloaded at Victaulic.com.
- Wear safety glasses, hardhat, foot protection, and hearing protection.
- It is the system designer's responsibility to verify suitability of stainless steel components for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on stainless steel components to confirm system life will be acceptable for the intended service.
- Always reference Victaulic publication 17.01 for stainless steel pipe end preparation and grooving roll set requirements. Grooving roll sets for stainless steel pipe must be ordered separately.

Failure to follow these instructions could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

### 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

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[05.01: Seal Selection Guide](#)

[17.01: Stainless Steel Pipe End Preparation](#)

[17.09: Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe](#)

[17.18: Victaulic® Duplex and Super Duplex Stainless Steel OGS Fittings](#)

[17.50: 2"-8" Schedule 40SS Fittings](#)

[25.01: Original Groove System \(OGS\) Groove Specifications](#)

[I-100: Victaulic Field Installation Instruction Handbook](#)

[I-ENDCAP: Victaulic® End Caps](#)

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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](http://victaulic.com).

### Warranty

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

### Intellectual Property Rights

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### Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.