



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.

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 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

Available Fitting Wall Thicknesses

- Schedule 10S Fittings: See Sections 3.0 and 4.0
- Schedule 40S Fittings: See Sections 3.1 and 4.1

NOTE

- Schedule 40S Fittings are designated with H

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.

3.0 MATERIAL SPECIFICATIONS

Schedule 10S Material Specifications:

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.

3.1 MATERIAL SPECIFICATIONS

Schedule 40S Material Specifications:

Note: All fittings in this section are segmentally welded stainless steel unless otherwise noted

Elbows:

- Standard: Schedule 40S, Type 304L or 316L stainless steel roll or cut 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: 2 – 3"/DN40 – DN80 90° and 45° Elbows available in Schedule 40S, 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 40S, Type 304L or 316L stainless steel roll or cut 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: 2 – 3"/DN40 – DN80 Tees & 3 x 2 ½"/DN80 x 65 mm Reducing Tees available in Schedule 40S, 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 40S, Type 304L or 316L stainless steel roll or cut 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 40S, Type 304L or 316L stainless steel roll or cut 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 & Eccentric Reducers:

- Standard: Schedule 40S, Type 304L or 316L stainless steel roll or cut 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:

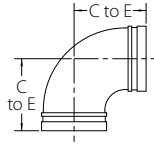
- Standard: For use with Schedule 40S pipe, Schedule 40S, Type 304L or 316L stainless steel roll or cut grooved from material conforming to A 403/A 403M, or pipe conforming to ASTM A 312/A 312M, or sheet conforming to ASTM A 240/A 240M.

4.0 DIMENSIONS

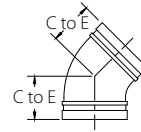
Elbows

No. 410 SS 90° Long Radius Elbow

No. 411 SS 45° Elbow



No. 410 SS



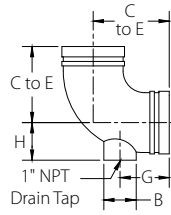
No. 411 SS

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	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg
3/4 DN20	1.050 26.9	-	-	2.50 64	0.6 0.3	-	-	1.75 44	-
1 DN25	1.315 33.7	2.88 73	0.7 0.3	2.88 73	0.8 0.4	2.00 51	0.6 0.3	2.25 57	0.8 0.3
1 1/4 DN32	1.660 42.4	3.13 79	1.0 0.5	3.25 83	-	2.00 51	0.8 0.4	2.38 60	-
1 1/2 DN40	1.900 48.3	3.50 89	1.4 0.6	3.63 92	1.4 0.6	2.25 57	1.0 0.5	2.50 64	-
2 DN50	2.375 60.3	4.50 114	2.2 1.0	4.38 111	1.6 0.7	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	4.0 1.8	2.75 70	2.2 1.0	3.13 79	3.1 1.4
DN65	3.000 76.1	3.75 95	2.1 1.0	-	-	2.25 57	2.1 0.9	-	-
3 DN80	3.500 88.9	4.50 114	2.6 1.2	5.88 149	5.5 2.5	2.00 51	1.3 0.6	3.38 86	1.3 0.6
3 1/2 DN90	4.000 101.6	-	-	6.63 168	4.7 2.1	-	-	3.63 92	-
4 DN100	4.500 114.3	6.00 152	4.7 2.1	7.50 191	9.0 4.1	2.50 64	2.3 1.0	4.00 102	5.5 2.5
DN125	5.500 139.7	7.50 191	7.8 3.5	-	-	3.13 79	2.3 1.0	-	-
5	5.563 141.3	-	-	9.25 235	15.4 7.0	-	-	4.88 124	6.4 2.9
	6.500 165.1	9.00 229	11.0 5.0	-	-	3.75 95	5.3 2.4	-	-
6 DN150	6.625 168.3	9.00 229	11.0 5.0	10.75 273	15.0 6.8	3.75 95	5.5 2.5	5.50 140	-
200A	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	14.25 362	21.2 9.6	5.00 127	11.0 5.0	7.25 184	-
250A	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	17.25 438	-	6.25 159	18.5 8.4	8.50 216	-
300A	318.5	18.00 457	54.2 24.6	-	-	7.50 191	21.1 9.6	-	-
12 DN300	12.750 323.9	18.00 457	56.9 25.8	20.50 521	56.9 25.8	7.50 191	28.4 12.9	10.00 254	-

4.0 DIMENSIONS (CONTINUED)

Elbows

No 410-DR 90° Elbow



No. 410-DR

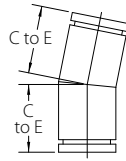
Size		No. 410-DR 90° Elbow					Approx. Weight Each
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	B inches mm	G inches mm	H inches mm		
2 DN50	2.375 60.3	4.38 111	1.63 41	2.75 70	1.88 48	2.0 0.9	
2½	2.875 73.0	5.13 130	1.63 41	2.75 70	2.13 54	2.9 1.3	
3 DN80	3.500 88.9	5.88 149	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)

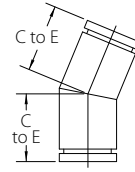
Elbows

No. 412 SS 22½° Elbow

No. 413 SS 11¼° Elbow



No. 412 SS



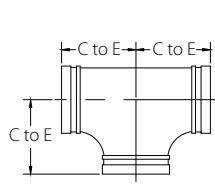
No. 413 SS

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	1.050	1.63	0.5	1.38	0.2
DN20	26.9	41	0.2	35	0.1
1	1.315	1.63	0.5	1.38	0.2
DN25	33.7	41	0.2	35	0.1
1¼	1.660	1.75	0.6	1.38	0.4
DN32	42.4	44	0.3	35	0.2
1½	1.900	1.75	0.9	1.38	0.4
DN40	48.3	44	0.4	35	0.2
2	2.375	1.88	1.0	1.38	0.7
DN50	60.3	48	0.5	35	0.3
2½	2.875	2.00	1.4	1.50	0.7
	73.0	51	0.6	38	0.3
DN65	3.000	–	–	1.50	1.3
	76.1			38	0.6
3	3.500	2.25	1.7	1.50	1.2
DN80	88.9	57	0.8	38	0.5
3½	4.000	2.50	–	1.75	–
DN90	101.6	64	–	44	–
4	4.500	2.88	2.8	1.75	1.7
DN100	114.3	73	1.3	44	0.8
DN125	5.500	2.88	3.3	–	–
	139.7	73	1.5		
5	5.563	2.88	3.8	2.00	–
	141.3	73	1.7	51	–
6	6.625	3.13	5.8	2.00	3.4
DN150	168.3	79	2.6	51	1.5
8	8.625	3.88	9.2	2.00	4.6
DN200	219.1	98	4.2	51	2.1
10	10.750	4.38	13.6	2.13	5.3
DN250	273.0	111	6.2	54	2.4
12	12.750	4.88	19.2	2.25	14.1
DN300	323.9	124	8.7	57	6.4

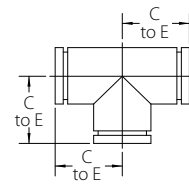
4.0 DIMENSIONS (CONTINUED)

Tees

No. 420 SS



No. 420 SS



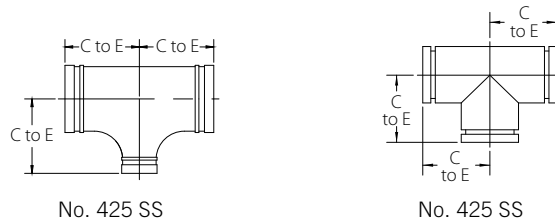
No. 420 SS

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	2.4 1.1	3.25 83	2.7 1.2
2 ½	2.875 73.0	3.13 79	3.1 1.4	3.75 95	4.4 2.0
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	-	-	5.50 140	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

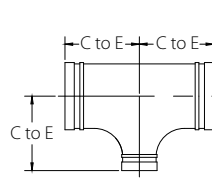


Size				No. 425 Grooved Branch Reducing Tee			No. 425 (SWS) Grooved Branch Reducing Tee				
Nominal inches DN		Actual Outside Diameter inches mm		C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg		
1 1/4 DN25	x	1 1/4 DN25	x	3/4 DN20	1.660	1.660	1.050	-	-	-	
					42.4	42.4	26.9	-	-	-	
				1	1.315	1.315	2.75	2.75	3.1		
				DN25	33.7	33.7	70	70	1.4		
				1							
				DN25							
				1 1/4							
				DN32							
1 1/2 DN40	x	1 1/2 DN40	x	3/4 DN20	1.900	1.900	1.050	-	-	-	
					48.3	48.3	26.9	-	-	-	
				1	1.315	1.315	2.75	2.75	1.5		
				DN25	33.7	33.7	70	70	0.7		
				1 1/4							
				DN32							
				1 1/2	1.660	1.660	2.75	2.75	1.5		
				DN32	42.4	42.4	70	70	0.7		
2 DN50	x	2 DN50	x	3/4 DN20	2.375	2.375	1.050	-	-	-	
					60.3	60.3	26.9	-	-	-	
				1	1.315	1.315	3.25	3.25	2.7		
				DN25	33.7	33.7	83	83	1.2		
				1 1/4							
				DN32							
				1 1/2	1.660	1.660	3.25	3.25	2.3		
				DN32	42.4	42.4	83	83	1.0		
				1 1/2	1.900	1.900	2.75	2.75	2.3		
				DN40	48.3	48.3	70	70	1.0		
2 1/2 DN50	x	2 1/2 DN50	x	3/4 DN20	2.875	2.875	1.050	-	-	-	
					73.0	73.0	26.9	-	-	-	
				1	1.315	1.315	3.75	3.75	2.8		
				DN25	33.7	33.7	95	95	1.3		
				1 1/4							
				DN32							
				1 1/2	1.660	1.660	3.75	3.75	3.0		
				DN32	42.4	42.4	95	95	1.4		
				2	1.900	1.900	3.75	3.75	1.6		
				DN40	48.3	48.3	95	95	2.0		
				2	2.375	2.375	3.13	3.13	4.4		
				DN50	60.3	60.3	79	79	2.0		
				2	3.000	3.000	3.75	3.75	4.0		
				DN50	76.1	76.1	95	95	1.8		
3 DN80	x	3 DN80	x	3/4 DN20	3.500	3.500	1.050	-	-	-	
					88.9	88.9	26.9	-	-	-	
				1	1.315	1.315	4.25	4.25	4.0		
				DN25	33.7	33.7	108	108	1.8		
				1 1/4							
				DN32							
				1 1/2	1.660	1.660	4.25	4.25	4.1		
				DN32	42.4	42.4	108	108	1.9		
				1 1/2	1.900	1.900	4.25	4.25	4.3		
				DN40	48.3	48.3	108	108	2.0		
				2	2.375	2.375	3.75	3.75	4.3		
				DN50	60.3	60.3	95	95	2.0		
				2 1/2	2.875	2.875	3.75	3.75	4.4		
				DN50	73.0	73.0	95	95	2.0		
				2 1/2	3.000	3.000	3.75	3.75	4.4		
				DN65	76.1	76.1	95	95	2.0		

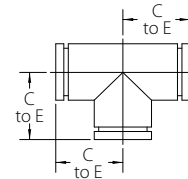
4.0 DIMENSIONS (CONTINUED)

Reducing Tees

No. 425 SS



No. 425 SS



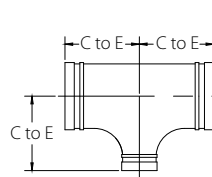
No. 425 SWS

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		DN80	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		DN80	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
		4 DN100			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		DN80	3.500	-	-	-	5.50	5.50	11.6		
					88.9	-	-	-	140	140	5.3		
		4		DN100	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
		4 DN100			5.500	5.88	5.38	10.4	6.50	6.50	17.6		
					139.7	149	137	4.7	165	165	8.0		

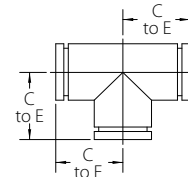
4.0 DIMENSIONS (CONTINUED)

Reducing Tees

No. 425 SS



No. 425 SS



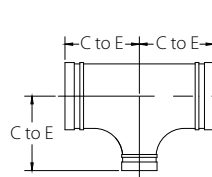
No. 425 SS

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			
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
								10.528 267.4	8.88 225	7.75 197	35.0 15.9	8.50 216	8.50 216	28.7 13.0
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

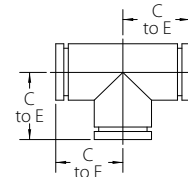
4.0 DIMENSIONS (CONTINUED)

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	-

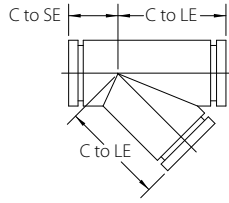
4.0 DIMENSIONS (CONTINUED)

45° Laterals, True Wyes and Crosses

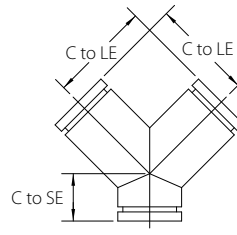
No. 430 SS 45° Lateral

No. 433 SS True Wye

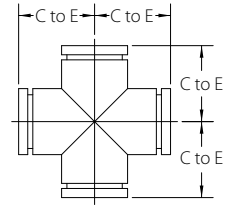
No. 435 SS Cross



No. 430 SS



No. 433 SS



No. 435 SS

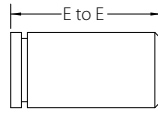
Size		No.430 (SWS) 45° Lateral			No.433 (SWS) True Wye			No.435 (SWS) Cross	
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lbs kg	C to LE inches mm	C to SE inches mm	Weight Approx. (Each) lbs kg	C to E inches mm	Weight Approx. (Each) lbs 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)

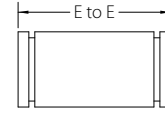
Adapter Nipples

No. 442 SS Grv. x Bev.

No. 443 SS Grv. x Grv.



No. 442 SS



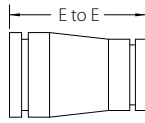
No. 443 SS

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
¾ 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 ¼ DN32	1.660 42.4	4.00 102	0.6 0.3	4.00 102	0.6 0.3
1 ½ 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 ½	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 ½ 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

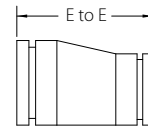
4.0 DIMENSIONS (CONTINUED)

Concentric Reducers

No. 450 SS
No. 451 SS



No. 450 SS



No. 451 SS

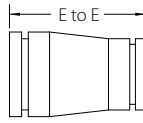
Size		Actual Outside Diameter		No. 450 Concentric Reducer		No. 450 (SWS) Concentric Reducer		No. 451 Eccentric Reducer		No. 451 (SWS) Eccentric Reducer	
Nominal inches DN	x	inches	mm	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg
1 DN25	x	¾ DN20	1.315 x 1.050 33.7 x 26.9	-	-	8.00 203	-	-	-	8.00 203	-
1 ¼ DN32	x	¾ DN20	1.660 x 1.050 42.4 x 26.9	-	-	8.00 203	-	-	-	8.00 203	-
		1 DN25	1.315 33.7	-	-	8.00 203	-	-	-	8.00 203	-
1 ½ DN40	x	¾ DN20	1.900 x 1.050 48.3 x 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 ¼ 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	¾ DN20	2.375 x 1.050 60.3 x 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 ¼ 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 ½ 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 ½	x	¾ DN20	2.875 x 1.050 73.0 x 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 ¼ DN32	1.660 42.4	5.00 127	2.3 1.0	9.50 241	-	-	-	9.50 241	4.0 1.8
		1 ½ 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 x 2.375 76.1 x 60.3	2.50 64	1.0 0.5	-	-	-	-	-	-
3 DN80	x	¾ DN20	3.500 x 1.050 88.9 x 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 ¼ 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 ½ 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 ½	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 ½ DN90		3 DN80	4.000 x 3.500 101.6 x 88.9	-	-	10.00 254	-	-	-	10.00 254	-

4.0 DIMENSIONS (CONTINUED)

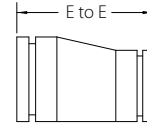
Concentric Reducers

No. 450 SS

No. 451 SS



No. 450 SS



No. 451 SS

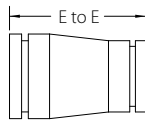
Size		Actual Outside Diameter		No. 450 Concentric Reducer		No. 450 (SWS) Concentric Reducer		No. 451 Eccentric Reducer		No. 451 (SWS) Eccentric Reducer				
Nominal inches DN		inches	mm	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg			
4 DN100	x 1 DN25	4.500 114.3	x 1.315 33.7	-	-	10.00 254	-	-	-	10.00 254	-			
	1 ¼ DN32			-	-	10.00 254	-	-	-	10.00 254	-			
	1 ½ DN40			-	-	10.00 254	-	-	-	10.00 254	-			
	2 DN50			5.00 127	3.9 1.8	10.00 254	5.5 2.5	5.00 127	4.8 2.2	5.00 127	5.0 2.3			
	2 ½			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			
	DN65			5.00 127	5.8 2.6	10.00 254	-	-	-	10.00 254	-			
	3 DN80			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 ½ DN90			-	-	10.00 254	-	-	-	10.00 254	-			
	DN125			x 3 DN80	5.500 139.7	x 3.500 88.9	5.00 127	2.6 1.2	-	-	-	-	-	-
				4 DN100			5.00 127	2.9 1.3	-	-	-	-	-	-
5	x 2 DN50	5.563 141.3	x 2.375 60.3	-	-	11.00 279	-	-	-	11.00 279	-			
	2 ½			-	-	11.00 279	-	-	-	11.00 279	-			
	3 DN80			-	-	11.00 279	-	-	-	11.00 279	-			
	3 ½			-	-	11.00 279	-	-	-	11.00 279	-			
	4 DN100			-	-	11.00 279	6.6 3.0	-	-	11.00 279	8.6 3.9			
x 3 DN80	6.500 165.1	x 3.500 88.9	5.50 140	4.0 1.8	-	-	-	-	-	-	-			
			4 DN100	5.50 140	4.2 1.9	-	-	-	-	-	-			
			DN125	5.50 139.7	4.4 2.0	-	-	-	-	-	-			
6 DN150	x 1 DN25	6.625 168.3	x 1.315 33.7	-	-	11.50 292	-	-	-	11.50 292	-			
	1 ½ DN40			-	-	11.50 292	-	-	-	11.50 292	-			
	2 DN50			-	-	11.50 292	-	-	-	11.50 292	-			
	2 ½			9.00 229	6.8 3.1	11.50 292	-	-	-	9.00 229	-			
	3 DN80			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			5.50 140	4.2 1.9	11.50 292	8.4 3.8	5.50 140	7.0 3.2	11.50 292	11.0 5.0			
	DN125			5.50 139.7	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	11.0 5.0		

4.0 DIMENSIONS (CONTINUED)

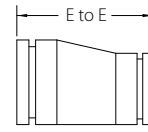
Concentric Reducers

No. 450 SS

No. 451 SS



No. 450 SS



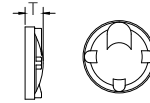
No. 451 SS

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	-	-	-	-	-	-		
				5.500	6.00	8.5	-	-	-	-	-	-	
				139.7	152	3.9	-	-	-	-	-	-	
DN125	x	8.515 216.3	4.500 114.3	6.00	6.6	-	-	-	-	-	-		
				152	3.0	-	-	-	-	-	-	-	
8 DN200	x	8.625 219.1	2.875 73.0	-	-	12.00	-	-	-	12.00	-		
				-	-	305	-	-	-	305	-		
				3 DN80	3.500	-	12.00	-	-	-	12.00	7.0	
				88.9	-	305	-	-	-	305	3.2		
				4 DN100	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	-	
5	x	8.625 219.1	2.875 73.0	5.500	6.00	6.1	12.00	-	-	12.00	-		
				139.7	152	2.8	305	-	-	305	-		
6 DN150	x	8.625 219.1	2.875 73.0	6.500	-	12.00	-	-	-	12.00	-		
				165.1	-	305	-	-	-	305	-		
6 DN150	x	8.625 219.1	2.875 73.0	6.625	6.00	7.0	12.00	6.00	13.7	12.00	15.4		
				168.3	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	-	-	-	-	-	-		
250A	x	267.4	6.500 165.1	7.00	10.6	-	-	-	-	-	-		
				178	4.8	-	-	-	-	-	-		
10 DN250	x	10.750 273.0	4.500 114.3	-	-	13.00	25.4	-	-	13.00	-		
				-	-	330	11.5	-	-	330	-		
				5	5.500	-	13.00	-	-	13.00	-		
				139.7	-	330	-	-	330	-			
6 DN150	x	10.750 273.0	4.500 114.3	6.625	7.00	8.8	13.00	43.0	7.00	13.00	-		
				168.3	178	4.0	330	19.5	178	330	-		
8 DN200	x	10.750 273.0	4.500 114.3	8.625	7.00	11.5	13.00	25.4	7.00	13.00	11.0		
				219.1	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	6.500 165.1	8.00	6.0	-	-	-	-	-	-		
				216.3	203	6.0	-	-	-	-	-		
250A	x	267.4	6.500 165.1	8.00	15.0	-	-	-	-	-	-		
				203	6.8	-	-	-	-	-	-		
12 DN300	x	12.750 323.9	4.500 114.3	-	-	14.00	29.8	-	-	14.00	-		
				-	-	356	13.5	-	-	356	-		
				6 DN150	6.625	-	14.00	23.3	-	-	14.00	-	
				168.3	-	356	10.6	-	-	356	-		
				8 DN200	8.625	8.00	13.2	14.00	30.9	8.00	26.9	14.00	-
219.1	203	6.0	356	14.0	203	12.2	356	-					
10 DN250	x	12.750 323.9	4.500 114.3	10.750	8.00	17.0	14.00	39.0	8.00	30.0	14.00		
				273.0	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

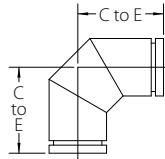
- End caps are available with an NPT/BSPT tapped port. Contact Victaulic for more information.

4.1 DIMENSIONS

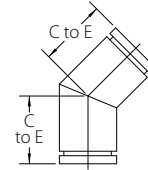
Elbows

No. 410H SS 90° Long Radius Elbow

No. 411H SS 45° Elbow



No. 410H SS



No. 411H SS

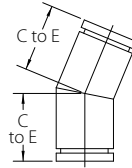
Size		No. 410H 90° Elbow		No. 410H (SWS) 90° Elbow		No. 411H 45° Elbow		No. 411H (SWS) 45° Elbow	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg
¾ DN20	1.050 26.9	-	-	2.50 64	0.6 0.3	-	-	1.75 44	-
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 60	0.9 0.4
1½ DN40	1.900 48.3	3.50 89	1.5 0.7	3.63 92	1.4 0.6	2.50 64	1.2 0.6	2.50 64	1.1 0.5
2 DN50	2.375 60.3	4.38 111	2.5 1.1	4.38 111	2.5 1.1	2.75 70	1.8 0.8	2.75 70	2.4 1.1
2½	2.875 73.0	5.13 130	4.1 1.8	5.13 130	3.8 1.7	3.13 79	2.9 1.3	3.13 79	2.8 1.3
3 DN80	3.500 88.9	5.88 149	6.7 3.0	5.88 149	5.4 2.4	3.38 86	4.5 2.0	3.38 86	4.1 1.9
3½ DN90	4.000 101.6	-	-	6.63 168	-	-	-	3.63 92	-
4 DN100	4.500 114.3	-	-	7.50 191	12.0 5.4	-	-	4.00 102	4.8 2.2
5	5.563 141.3	-	-	9.25 235	10.7 4.8	-	-	4.88 124	8.1 3.7
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)

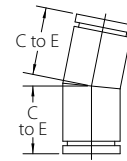
Elbows

No. 412H SS 22½° Elbow

No. 413H SS 11¼° Elbow



No. 412H SS



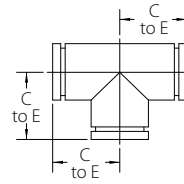
No. 413H SS

Size		No.412H (SWS) 22 ½° Elbow		No.413H (SWS) 11 ¼° Elbow	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg
¾ DN20	1.050 26.9	1.63 41	0.7 0.3	1.38 35	0.4 0.2
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
DN65	3.000 76.1	2.25 57	–	1.50 38	–
3 DN80	3.500 88.9	2.25 57	3.1 1.4	1.50 38	2.1 1.0
3½ DN90	4.000 101.6	2.50 64	–	1.75 44	–
4 DN100	4.500 114.3	2.88 73	5.6 2.5	1.75 44	3.6 1.6
DN125	5.500 139.7	–	–	–	–
5	5.563 141.3	2.88 73	–	2.00 51	–
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 98	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 5.4
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



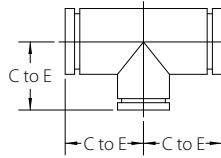
No. 420H SS

Size		No. 420H Tee		No. 420H (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	Approx. Weight Each lbs kg
1 DN25	1.315 33.7	-	-	2.25 57	0.9 0.4
1 ¼ 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	3.1 1.4	3.25 83	2.2 1.0
2½	2.875 73.0	3.75 95	5.7 2.6	3.75 95	4.7 2.1
3 DN80	3.500 88.9	4.25 108	8.5 3.8	4.25 108	7.0 3.2
3½ DN90	4.000 101.6	-	-	4.63 117	-
4 DN100	4.500 114.3	-	-	5.00 127	13.0 5.9
5	5.563 141.3	-	-	5.50 140	26.4 12.0
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



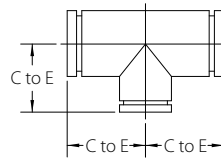
No. 425H SS

Size			Actual Outside Diameter			No. 425H Grooved Branch Reducing Tee			No. 425H (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
1 1/4 DN25	x	1 1/4 DN25	x	1.660 42.4	x	1.660 42.4	x	1.050 26.9	-	-	-
									-	-	-
									-	-	-
1 1/2 DN40	x	1 1/2 DN40	x	1.900 48.3	x	1.900 48.3	x	1.050 26.9	-	-	-
									-	-	-
									-	-	-
									-	-	-
2 DN50	x	2 DN50	x	2.375 60.3	x	2.375 60.3	x	1.050 26.9	-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-
2 1/2	x	2 1/2	x	2.875 73.0	x	2.875 73.0	x	1.050 26.9	-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-
3 DN80	x	3 DN80	x	3.500 88.9	x	3.500 88.9	x	1.050 26.9	-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-
3 1/2 DN90	x	3 1/2 DN90	x	4.000 101.6	x	4.000 101.6	x	1.900 48.3	-	-	-
									-	-	-
									-	-	-
									-	-	-
									-	-	-

4.1 DIMENSIONS (CONTINUED)

Reducing Tees

No. 425H SS



No. 425H SS

Size						No. 425H Grooved Branch Reducing Tee			No. 425H (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	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lbs kg		
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	-	-	-	5.00	5.00	10.2
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	-
6	x	6	x	1 DN25	6.625	6.625	1.315	-	-	-	6.50	6.50	-
					168.3	168.3	33.7	-	-	-	165	165	-
							1.900	-	-	-	6.50	6.50	-
							48.3	-	-	-	165	165	-
							2.375	-	-	-	6.50	6.50	22.0
							60.3	-	-	-	165	165	10.0
							2.875	-	-	-	6.50	6.50	22.0
8	x	8	x	2 1/2	8.625	8.625	2.875	-	-	-	7.75	7.75	35.0
					219.1	219.1	73.0	-	-	-	197	197	15.9
							3.500	-	-	-	7.75	7.75	39.3
							88.9	-	-	-	197	197	17.8
							4.500	-	-	-	7.75	7.75	45.0
							114.3	-	-	-	197	197	20.4
							5.563	-	-	-	7.75	7.75	-
		141.3	-	-	-	197	197	-					
		6.625	-	-	-	7.75	7.75	43.0					
		168.3	-	-	-	197	197	19.5					

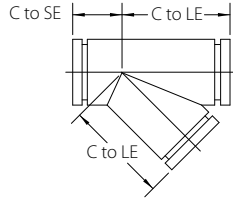
4.1 DIMENSIONS (CONTINUED)

45° Laterals, True Wyes and Crosses

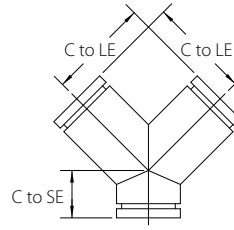
No. 430H SS 45° Lateral

No. 433H SS True Wye

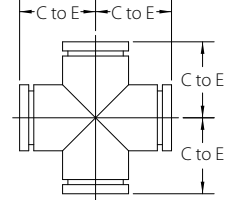
No. 435H SS Cross



No. 430H SS



No. 433H SS



No. 435H SS

Size		No. 430H (SWS) 45 Lateral			No.433H (SWS) True Wye			No.435H (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	Approx. Weight Each lbs kg	C to E inches mm	Approx. Weight Each lbs kg	
3/4 DN20	1.050 26.9	4.50 114	2.00 51	1.0 0.5	2.25 57	2.00 51	0.7 0.3	2.25 57	0.9 0.4	
1 DN25	1.315 33.7	5.00 127	2.25 57	1.7 0.8	2.25 57	2.25 57	1.1 0.5	2.25 57	1.3 0.6	
1 1/4 DN32	1.660 42.4	5.75 146	2.50 64	2.5 1.1	2.75 70	2.50 64	1.5 0.7	2.75 70	2.1 1.0	
1 1/2 DN40	1.900 48.3	6.25 159	2.75 70	3.5 1.6	2.75 70	2.75 70	1.8 0.8	2.75 70	2.5 1.1	
2 DN50	2.375 60.3	7.00 178	2.75 70	4.6 2.1	3.25 83	2.75 70	2.5 1.1	3.25 83	3.8 1.7	
2 1/2	2.875 73.0	7.75 197	3.00 76	9.0 4.1	3.75 95	3.00 76	4.3 2.0	3.75 95	6.1 2.8	
3 DN80	3.500 88.9	8.50 216	3.25 83	11.7 5.3	4.25 108	3.25 83	6.1 2.8	4.25 108	10.5 4.8	
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	22.2 10.1	5.00 127	3.75 95	10.0 4.5	5.00 127	15.8 7.2	
5	5.563 141.3	12.50 318	4.00 102	33.1 15.0	5.50 140	4.00 102	33.1 15.0	5.50 140	-	
6 DN150	6.625 168.3	14.00 356	4.50 114	43.6 19.8	6.50 165	4.50 114	22.3 10.1	6.50 165	28.0 12.7	
8 DN200	8.625 219.1	18.00 457	6.00 152	72.0 32.7	7.75 197	6.00 152	36.0 16.3	7.75 197	48.0 21.8	
10 DN250	10.750 273.0	20.50 521	6.50 165	105.0 47.6	9.00 229	6.50 165	69.9 31.7	9.00 229	121.5 55.1	
12 DN300	12.750 323.9	23.00 584	7.00 178	165.0 74.8	10.00 254	7.00 178	80.0 36.3	10.00 254	110.0 49.9	

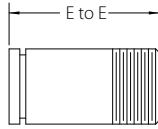
4.1 DIMENSIONS (CONTINUED)

Adapter Nipples

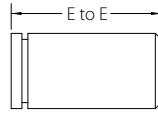
No. 440H SS Grv. x Male Thd.

No. 442H SS Grv. x Bev.

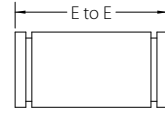
No. 443H SS Grv. x Grv.



No. 440H SS



No. 442H SS



No. 443H SS

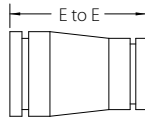
Size		No.440H Adapter Nipple GRV X MALE THD		No.442H Adapter Nipple GRV X BEV		No.443H Adapter Nipple GRV X GRV	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg	E to E inches mm	Approx. Weight Each lbs kg
¾ DN20	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
1¼ 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
1½ 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
2½ DN80	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
3½ DN90	4.000 101.6	4.00 102	-	4.00 102	-	4.00 102	-
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
DN125	5.500 139.7	-	-	6.00 152	-	-	-
5 DN150	5.563 141.3	6.00 152	-	6.00 152	-	6.00 152	-
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)

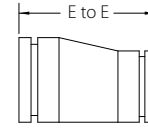
Concentric Reducers

No. 450H SS

No. 451H SS



No. 450H SS



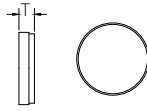
No. 451H SS

Size		Actual Outside Diameter		No. 450H (SWS) Concentric Reducer		No. 451H (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
2 DN50	x 1 DN25	2.375 60.3	x 1.315 33.7	9.00 229	2.1 1.0	9.00 229	2.1 1.0
	1 1/4 DN32		1.660 42.4	9.00 229	2.4 1.1	9.00 229	2.4 1.1
	1 1/2 DN40		1.900 48.3	9.00 229	2.5 1.1	9.00 229	2.5 1.1
2 1/2	x 1 DN25	2.875 73.0	x 1.315 33.7	9.50 241	3.2 1.5	-	-
	1 1/4 DN32		1.660 42.4	9.50 241	3.4 1.5	-	-
	1 1/2 DN40		1.900 48.3	-	-	9.50 241	3.6 1.6
	2 DN50		2.375 60.3	9.50 241	4.0 1.8	9.50 241	4.0 1.8
3 DN80	x 1 1/2 DN40	3.500 88.9	x 1.900 48.3	9.50 241	3.6 1.6	9.50 241	3.6 1.6
	2 DN50		2.375 60.3	9.50 241	4.8 2.2	9.50 241	4.8 2.2
	2 1/2		2.875 73.0	9.50 241	5.5 2.5	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	6.8 3.1
	2 1/2		2.875 73.0	10.00 254	7.5 3.4	10.00 254	7.5 3.4
	3 DN80		3.500 88.9	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	15.0 6.8
	4 DN100		4.500 114.3	11.50 292	16.0 7.3	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	24.0 10.9
	6 DN150		6.625 168.3	12.00 305	26.0 11.8	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	40.0 18.1
	8 DN200		8.625 219.1	13.00 330	43.0 19.5	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	52.5 23.8
	10 DN250		10.750 273.0	14.00 356	57.0 25.9	14.00 356	57.0 25.9

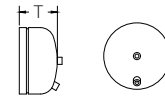
4.1 DIMENSIONS (CONTINUED)

Cap

No. 460H SS



No. 460H SS
(8 – 12" sizes)



No. 460H SS
(¾ – 6" sizes)







Size		No. 460H (Flat) Cap			No. 460H (SWS) 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
¾ DN20	1.050 26.9	0.88 22	–	0.2 0.1	–	–	–
1 DN25	1.315 33.7	0.88 22	–	0.3 0.1	–	–	–
1 ¼ DN32	1.660 42.4	1.00 25	½	0.6 0.3	–	–	–
1 ½ DN40	1.900 48.3	1.00 25	¾	0.7 0.3	–	–	–
2 DN50	2.375 60.3	1.00 25	1	1.2 0.5	–	–	–
2 ½	2.875 73.0	1.00 25	1 ½	–	–	–	–
DN65	3.000 76.1	1.00 25	1 ½	–	–	–	–
3 DN80	3.500 88.9	1.00 25	2	2.6 1.2	–	–	–
4 DN100	4.500 114.3	1.00 25	2 ½	4.6 2.1	–	–	–
4 ½	5.000 127.0	1.00 25	–	–	–	–	–
DN125	5.500 139.7	1.00 25	3	–	–	–	–
5	5.563 141.3	1.00 25	3	10.1 4.6	–	–	–
	6.500 165.1	–	–	–	–	–	–
6 DN150	6.625 168.3	1.00 25	3	10.1 4.6	–	–	–
8 DN200	8.625 219.1	1.25 32	4	21.8 9.9	6.25 159	–	21.8 9.9
10 DN250	10.750 273.0	1.25 32	4	34.0 15.4	7.25 184	–	34.0 15.4
12 DN300	12.750 323.9	1.25 32	4	47.9 21.7	8.50 216	–	47.9 21.7

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

- [05.01: Seal Selection Guide](#)
- [17.01: Stainless Steel Pipe End Preparation](#)
- [17.09: Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe](#)
- [I-100: Victaulic Field Installation Instruction Handbook](#)

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.

Installation

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.

Warranty

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

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