



## Victaulic® Stainless Steel OGS Fittings



### 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

### 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	





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### 3.0 MATERIAL SPECIFICATIONS

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#### 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.



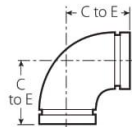
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## 4.0 DIMENSIONS

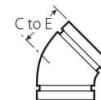
### Elbows

**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 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 <sup>1</sup>	1.325	2.88	0.7	2.00	0.6
DN25	33.7	73	0.3	51	0.3
1¼ <sup>1</sup>	1.750	3.13	1.0	2.00	0.8
DN32	42.4	80	0.5	51	0.4
1½ <sup>1</sup>	1.900	3.50	1.4	2.13	1.0
DN40	48.3	89	0.6	54	0.5
2 <sup>1</sup>	2.375	4.50	2.2	2.75	1.6
DN50	60.3	114	1.0	70	0.7
2½ <sup>1</sup>	2.875	5.00	3.3	2.88	2.2
	73.0	127	1.5	73	1.0
	3.000	3.75	2.8	2.25	1.3
DN65	76.1	95	1.3	57	0.6
3	3.500	4.50	2.6	2.00	1.3
DN80	88.9	114	1.2	51	0.6
4	4.500	6.00	4.7	2.50	2.3
DN100	114.3	152	2.1	63	1.0
	5.500	7.50	7.8	3.13	3.1
DN125	139.7	190	3.5	79	1.4
	6.500	9.00	10.8	3.75	5.3
	165.1	229	4.9	95	2.4
6	6.625	9.00	11.0	3.75	5.5
DN150	168.3	229	5.0	95	2.5
	8.000	12.00	20.7	5.00	9.7
216 JIS	216.3	305	9.4	127	4.4
8	8.625	12.00	21.2	5.00	11.0
DN200	219.1	305	9.6	127	5.0
	10.000	15.00	35.7	6.25	17.7
267 JIS	267.4	381	16.2	159	8.0
10	10.750	15.00	36.6	6.25	18.5
DN250	273.0	381	16.6	159	8.4
	12.000	18.00	54.2	7.50	21.1
318 JIS	318.5	457	24.6	190	9.6
12	12.750	18.00	59.6	7.50	28.4
DN300	323.9	457	27.0	190	12.9

<sup>1</sup> Cast fittings available in CF8M (Type 316 SS)



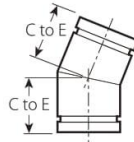
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#### 4.0 DIMENSIONS (Continued)

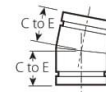
##### Elbows

**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 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	1.130 26.9	1.63 41	–	1.38 35	–
1 DN25	1.325 33.7	1.63 41	0.5 0.2	1.38 35	0.2 0.1
1¼ DN32	1.750 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	–
	6.500 165.1	3.13 79	5.5 2.5	2.00 51	3.5 1.6
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 99	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

##### NOTE

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

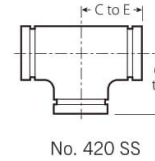
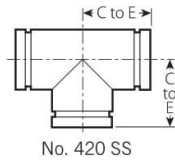


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#### 4.0 DIMENSIONS (Continued)

Tees

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 <sup>(sw)</sup> <sup>1</sup> DN25 <sup>(sw)</sup>	1.325 33.7	2.25 57	0.7 0.3	
1¼ <sup>1</sup> DN32	1.750 42.4	3.13 79	1.5 0.7	
1½ <sup>1</sup> DN40	1.900 48.3	3.38 86	2.2 1.0	
2 <sup>1</sup> DN50	2.375 60.3	2.75 70	2.4 1.1	
2½ <sup>1</sup>	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	

<sup>1</sup> Cast fittings available in CF8M (Type 316 SS)

**NOTE**

- (sw) denotes segmentally welded

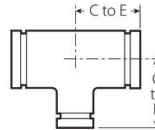


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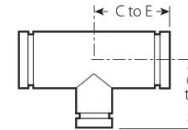
#### 4.0 DIMENSIONS (Continued)

##### Reducing Tees

##### No. 425 SS



No. 425 SS



No. 425 SS

Nominal Size inches DN	Actual Outside Diameter inches mm		No. 425 SS Reducing Tee			
			C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lb kg	
1½ DN40 x 1½ DN40 x ¾ DN20	1.900 48.3	1.900 48.3	1.130 26.9	2.75 70	2.75 70	1.3 0.6
			1.325 33.7	2.75 70	2.75 70	1.4 0.6
			1.750 42.4	2.75 70	2.75 70	1.5 0.7
			1.900 48.3	2.75 70	2.75 70	1.6 0.7
2 DN50 x 2 DN50 x ¾ DN20	2.375 60.3	2.375 60.3	1.130 26.9	3.25 83	3.25 83	2.0 0.9
			1.325 33.7	3.25 83	3.25 83	2.1 1.0
			1.750 42.4	3.25 83	3.25 83	2.3 1.0
			1.900 48.3	2.75 70	2.75 70	2.0 0.9
			2.375 60.3	2.75 70	2.75 70	2.1 1.0
2½ x 2½ x ¾ DN20	2.875 73.0	2.875 73.0	1.130 26.9	3.75 95	3.75 95	2.8 1.3
			1.325 33.7	3.75 95	3.75 95	3.0 1.4
			1.900 48.3	3.75 95	3.75 95	3.5 1.6
			2.375 60.3	3.07 78	3.07 78	3.5 1.6
			2.875 73.0	3.07 78	3.07 78	3.5 1.6
DN65 x DN65 x 60.3	2.875 x 2.875 x 60.3		3.75 95	3.75 95	3.5 1.6	
3 DN80 x 3 DN80 x ¾ DN20	3.500 88.9	3.500 88.9	1.130 26.9	4.25 108	4.25 108	4.0 1.8
			1.325 33.7	4.25 108	4.25 108	4.1 1.9
			1.750 42.4	4.25 108	4.25 108	4.2 1.9
			1.900 48.3	4.25 108	4.25 108	4.3 2.0
			2.375 60.3	3.77 96	3.23 82	3.1 1.4
			2.875 73.0	3.77 96	3.23 82	3.1 1.4
			3.500 88.9	3.77 96	3.23 82	3.1 1.4
			3.500 88.9	3.77 96	3.23 82	3.1 1.4
			3.500 88.9	3.77 96	3.23 82	3.1 1.4

<sup>1</sup> Cast fittings available in CF8M (Type 316 SS)

**NOTE**

- (sw) denotes segmentally welded

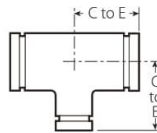


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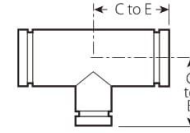
#### 4.0 DIMENSIONS (Continued)

##### Reducing Tees

##### No. 425 SS



No. 425 SS



No. 425 SS

Nominal Size inches DN	Actual Outside Diameter inches mm	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 <sup>(sw)</sup> DN25	4.500 114.3 x 4.500 114.3 x	1.325 33.7	5.00 127	5.0 2.3
		1.750 42.4	5.00 127	5.3 2.4
		1.900 48.3	5.00 127	5.6 2.5
		2.375 60.3	4.47 114	3.88 1.7
		2.875 73.0	4.47 114	3.82 1.7
		3.500 88.9	4.47 114	3.82 1.7
		3.500 88.9	4.47 114	3.88 1.7
		3.500 88.9	4.47 114	3.88 1.7
		3.500 88.9	4.47 114	3.88 1.7
		3.500 88.9	4.47 114	3.88 1.7
DN125 x DN125 x 88.9	139.7 x 139.7 x 88.9	5.28 134	4.38 111	6.85 3.1
		5.28 134	4.62 117	7.85 3.6
6 DN150 x 6 DN150 x 2 <sup>(sw)</sup> DN50	6.625 168.3 x 6.625 168.3 x	2.375 60.3	6.50 165	11.6 5.3
		2.875 73.0	6.50 165	12.1 5.5
		3.500 88.9	5.91 150	4.88 2.2
		4.500 114.3	5.91 150	5.12 2.3
		4.500 114.3	5.91 150	5.12 2.3
8 DN200 x 8 DN200 x 2 <sup>(sw)</sup> DN80	8.625 219.1 x 8.625 219.1 x	3.500 88.9	7.75 197	17.5 7.9
		4.500 114.3	7.75 197	18.0 8.2
		6.625 168.3	7.79 198	18.1 8.2
		7.750 197	7.79 198	18.5 8.4
		7.750 197	7.79 198	18.5 8.4

**NOTE**

- (sw) denotes segmentally welded

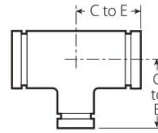


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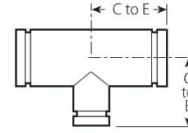
#### 4.0 DIMENSIONS (Continued)

##### Reducing Tees

##### No. 425 SS



No. 425 SS



No. 425 SS

Nominal Size inches DN	Actual Outside Diameter inches mm	No. 425 SS Reducing Tee		
		C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lb kg
10 DN250	10.750 323.9	3.500 88.9	9.00 229	29.0 13.2
10 DN250	10.750 323.9	4.500 88.9	9.00 229	30.0 13.6
6 DN150	6.625 168.3	6.625 168.3	7.70 196	28.2 12.8
8 DN200	8.625 219.1	8.625 219.1	8.59 218	31.3 14.2
12 DN300	12.750 323.9	6.625 168.3	10.00 254	43.0 19.5
12 DN300	12.750 323.9	8.625 219.1	10.39 264	40.1 18.2
10 DN250	10.750 273.0	10.750 273.0	10.39 264	47.6 21.6

**NOTE**

- (sw) denotes segmentally welded





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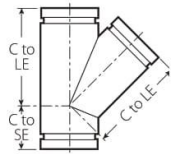
#### 4.0 DIMENSIONS (Continued)

##### 45° Laterals, True Wyes and Crosses

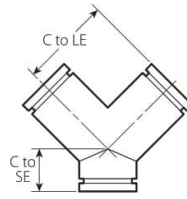
No. 430 SS 45° Lateral

No. 433 SS True Wye

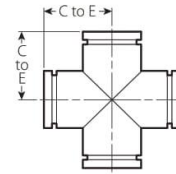
No. 435 SS Cross



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
¾ DN20	1.130 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	1.325 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
1¼ DN32	1.750 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
1½ 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
2½	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.



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#### 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 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
¾	1.130	3.00	0.2	3.00	0.2
DN20	26.9	76	0.1	76	0.1
1	1.325	3.00	0.3	3.00	0.3
DN25	33.7	76	0.1	76	0.1
1¼	1.750	4.00	0.6	4.00	0.6
DN32	42.4	102	0.3	102	0.3
1½	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
2½	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



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#### 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 48.3 x 1.130 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	1.5 0.7
2 DN50 x 3/4 DN20	2.375 60.3 x 1.130 26.7	3.75 95	2.0 0.9
		3.75 95	2.1 1.0
		3.75 95	2.3 1.0
		5.00 127	1.3 0.6
		5.00 127	1.3 0.6
2 1/2 DN65 x 1 DN25	2.875 73.0 x 1.325 33.7	5.00 127	3.0 1.4
		5.00 127	2.8 1.3
		5.00 127	1.7 0.8
		5.00 127	1.7 0.8
DN65 x 60.3	3.000 76.1 x 2.375 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
		5.00 127	1.5 0.7
		5.00 127	1.5 0.7
4 DN100 x 2 DN50	4.500 114.3 x 2.375 60.3	5.00 127	3.9 1.8
		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

<sup>1</sup> Cast fittings available in CF8M (Type 316 SS)



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#### 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 x 3.500 139.7 x 88.9	5.00	3.0
		127	1.4
DN114.3	4.500 114.3	5.00	3.2
		127	1.5
6 DN150 x 2½	6.625 x 2.875 168.3 x 73.0	9.00	6.8
		229	3.1
		5.50	4.0
		DN80	1.8
		4 DN100	1.9
DN125	5.500 139.7	5.50	4.5
		140	2.0
		6.00	5.3
8 DN200 x 4 DN100	8.625 x 4.500 219.1 x 114.3	152	2.4
		6.00	6.1
		DN125	2.8
		6 DN150	7.0
10 DN250 x 6 DN150	10.750 x 6.625 273 x 168.3	7.00	8.8
		178	4.0
		8 DN200	11.5
12 DN300 x 8 DN200	12.750 x 8.625 323.9 x 219.1	7.00	5.2
		178	13.2
		8.00	6.0
10 DN250	10.750 273.0	203	17.0
		203	7.7



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#### 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	
1 ½ DN40 x 1 DN25	1.900 48.3 x 1.325 33.7	3.75 95	1.4 0.6	
		1 ¼ DN32	1.750 42.4	1.5 0.7
2 DN50 x 1 DN25	2.375 60.3 x 1.325 33.7	3.75 95	2.1 1.0	
		1 ¼ DN32	1.750 42.4	2.3 1.0
		1 ½ DN40	1.900 48.3	2.5 1.1
2 ½ DN60 x 1 ½ DN32	2.875 73.0 x 1.900 48.3	5.00 127	3.0 1.4	
		2 DN50	2.375 60.3	3.5 1.6
3 DN80 x 1 ½ DN40	3.500 88.9 x 1.900 48.3	5.00 127	4.2 1.9	
		2 DN50	2.375 60.3	4.3 2.0
		2 ½	2.875 73.0	4.5 2.0
4 DN100 x 2 DN50	4.500 114.3 x 2.375 60.3	5.00 127	4.8 2.2	
		2 ½	2.875 73.0	5.8 2.6
		3 DN80	3.500 88.9	5.9 2.7
6 DN150 x 2 ½ DN80	6.625 168.3 x 2.875 73.0	9.00 229	6.8 3.1	
		3 DN80	3.500 88.9	6.9 3.1
		4 DN100	4.500 114.3	7.0 3.2

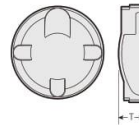


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#### 4.0 DIMENSIONS (Continued)

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
¾ DN20	1.130 26.9	0.75 19	N/A	0.1 0.1
1 DN25	1.325 33.7	0.75 19	N/A	0.2 0.1
1¼ DN32	1.660 42.4	0.75 19	N/A	0.3 0.1
1½ DN40	1.900 48.3	0.75 19	N/A	0.4 0.2
2 DN50	2.375 60.3	1.00 25	¼	0.6 0.3
2½	2.875 73.0	1.13 29	⅜	0.9 0.4
DN65	3.000 76.1	1.13 29	⅜	1.1 0.5
3 DN80	3.500 88.9	1.00 26	½	1.1 0.5
4 DN100	4.500 114.3	1.13 29	½	1.8 0.8
DN125	5.500 139.7	1.38 35	¾	3.2 1.5
	6.500 165.1	1.75 44	¾	4.1 1.9
6 DN150	6.625 168.3	1.75 44	¾	4.0 1.8
216 JIS	8.000 216.3	2.25 57	¾	7.0 3.2
8 DN200	8.625 219.1	2.25 57	¾	7.0 3.2
267 JIS	10.00 267.4	2.75 70	2	7.5 3.4
10 DN250	10.75 273.0	2.75 70	2	17.8 8.1
318 JIS	12.00 318.5	3.25 83	2	26.3 12.0
12 DN300	12.75 323.9	3.25 83	2	26.7 12.1

**NOTE**

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



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### 3.1 MATERIAL SPECIFICATIONS (Continued)

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#### 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
- Optional: 2 – 3"/DN40 – DN80 90° and 45° Elbows available in Schedule 40S, Grade CE3MN Grade 5 (super duplex stainless steel) conforming to A890 and A995.

#### 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
- Optional: 2 – 3"/DN40 – DN80 Tees & 3 x 2 ½"/DN80 x 65 mm Reducing Tees available in Schedule 40S, Grade CE3MN Grade 5 (super duplex stainless steel) conforming to A890 and A995.

#### 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.



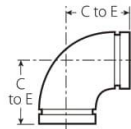
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#### 4.1 DIMENSIONS (Continued)

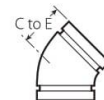
##### Elbows

**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	1.325 33.7	2.88 73	0.7 0.3	2.25 57	0.6 0.3
1¼ DN32	1.750 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 <sup>2</sup> DN50	2.375 60.3	4.38 111	2.5 1.1	2.75 70	2.4 1.1
2½ <sup>2</sup>	2.875 73.0	5.13 130	3.8 1.7	3.13 80	2.8 1.3
3 <sup>2</sup> 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	10.75 273.0	17.25 438	99.0 44.9	8.50 216	58.3 26.4
12 DN300	12.75 323.9	20.50 521	142.0 64.4	10.00 254	85.0 38.6

<sup>2</sup> Cast fittings available in CF8M (Type 316 SS) and CE3MN (super duplex stainless steel)





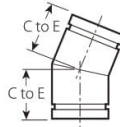
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#### 4.1 DIMENSIONS (Continued)

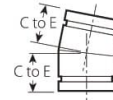
##### Elbows

**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	1.130 26.9	1.63 41	– –	1.38 35	– –
1 DN25	1.325 33.7	1.63 41	0.6 0.3	1.38 35	0.3 0.1
1¼ DN32	1.750 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

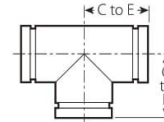


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#### 4.1 DIMENSIONS (Continued)

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	1.325 33.7	2.25 57	0.9 0.4	
1¼ DN32	1.750 42.4	2.75 70	1.5 0.7	
1½ DN40	1.900 48.3	2.75 70	1.7 0.8	
2 <sup>2</sup> DN50	2.375 60.3	3.25 83	2.5 1.1	
2½ <sup>2</sup>	2.875 73.0	3.75 95	4.7 2.1	
3 <sup>2</sup> 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	

<sup>2</sup> Cast fittings available in CF8M (Type 316 SS) and CE3MN (super duplex stainless steel)

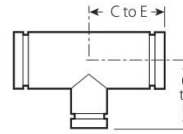


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**4.1 DIMENSIONS (Continued)**

**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 x 2.375 x 1.325 60.3 x 60.3 x 33.7	3.25	2.5
		83	1.1
		83	1.1
1 1/4 DN32	1.750	83	2.8
		42.4	1.3
		83	1.3
1 1/2 DN40	1.900	83	3.2
		48.3	1.5
		83	1.5
2 1/2 x 2 1/2 x 1 1/2 DN40	2.875 x 2.875 x 1.900 73.0 x 73.0 x 48.3	3.75	4.4
		95	2.0
		95	2.0
2 DN40	2.375	60.3	4.5
		95	2.0
		95	2.0
3 DN80 x 3 DN80 x 1 1/2 DN40	3.500 x 3.500 x 1.900 88.9 x 88.9 x 48.3	4.25	4.5
		108	2.0
		108	2.0
		108	2.0
2 DN50	2.375	60.3	5.2
		108	2.4
		108	2.4
		108	2.4
2 1/2	2.875	73.0	5.6
		108	2.5
		108	2.5
		108	2.5
4 DN100 x 4 DN100 x 2 DN50	4.500 x 4.500 x 2.375 114.3 x 114.3 x 60.3	5.00	10.2
		127	4.6
		127	4.6
		127	4.6
		127	4.6
		127	4.6
2 1/2	2.875	73.0	10.5
		127	4.8
		127	4.8
3 DN80	3.500	88.9	11.6
		127	5.3
		127	5.3
6 DN150 x 6 DN150 x 2 DN50	6.625 x 6.625 x 2.375 168.3 x 168.3 x 60.3	6.50	22.0
		165	10.0
		165	10.0
		165	10.0
3 DN80	3.500	88.9	22.4
		165	10.2
		165	10.2
4 DN100	4.500	114.3	22.8
		165	10.3
		165	10.3
8 DN200 x 8 DN200 x 2 1/2 DN65	8.625 x 8.625 x 3.500 219.1 x 219.1 x 88.9	7.75	35.0
		197	15.9
		197	15.9
		197	15.9
		197	15.9
		197	15.9
3 DN80	4.500	114.3	39.3
		197	17.8
		197	17.8
4 DN100	6.625	168.3	45.0
		197	20.4
		197	20.4
6 DN150	7.750	197	43
		96	19.5
		96	19.5
10 DN250 x 10 DN250 x 4 DN100	10.750 x 10.750 x 4.500 323.9 x 323.9 x 88.9	9.00	63.0
		229	28.6
		229	28.6
		229	28.6
6 DN150	6.625	168.3	68.3
		229	31.0
		229	31.0
8 DN200	8.625	219.1	71.0
		229	32.2
		229	32.2
12 DN300 x 12 DN300 x 6 DN150	12.750 x 12.750 x 6.625 323.9 x 323.9 x 168.3	10.00	73.0
		254	33.1
		254	33.1
		254	33.1
8 DN200	8.625	219.1	75.0
		254	34.0
		254	34.0
10 DN250	10.750	273.0	77.0
		254	34.0
		254	34.0

<sup>2</sup> Cast fittings available in CF8M (Type 316 SS) and CE3MN (super duplex stainless steel)



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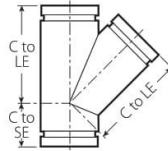
**4.1 DIMENSIONS (Continued)**

**45° Laterals, True Wyes and Crosses**

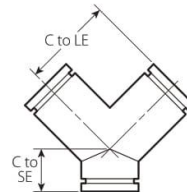
**No. 430H SS 45° Lateral**

**No. 433H SS True Wye**

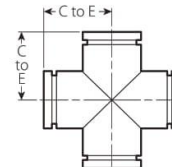
**No. 435H SS Cross**



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	
¾ DN20	1.130 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	1.325 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	
1¼ DN32	1.750 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	
1½ 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	
2½	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 5.4	4.25 108	3.25 83	6.1 2.8	4.25 108	10.5 4.8	
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	
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	10.75 273.0	20.50 521	6.50 165	105.0 47.6	9.00 229	6.50 155	69.9 31.7	9.00 229	121.5 55.1	
12 DN300	12.75 323.9	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	



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#### 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
¾ DN20	1.130 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	1.325 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	1.750 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	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



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#### 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 1.325 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 1 DN25	2.875 73.0 x 1.325 33.7	9.50 241	3.2 1.5
		9.50 241	3.4 1.5
		9.50 241	4.0 1.8
		9.50 241	4.0 1.8
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
		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
		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
		14.00 356	52.5 23.8
		14.00 356	57.0 25.9
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



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#### 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		Approx. Weight Each lb kg
		E to E Run inches mm		
2 DN50 x 1 DN25	2.375 60.3 x 1.325 33.7	9.00	2.1	
		229	1.0	
		9.00	2.4	
		229	1.1	
1 ½ DN40	1.900 48.3	9.00	2.5	
		229	1.1	
		9.50	3.6	
		241	1.6	
2 DN50	2.375 60.3	9.50	4.0	
		241	1.8	
		9.50	3.6	
		241	1.6	
3 DN80 x 1 ½ DN40	3.500 88.9 x 1.900 48.3	9.50	4.8	
		241	2.2	
		9.50	5.5	
		241	2.5	
2 ½ DN80	2.875 73.0	9.50	5.5	
		241	2.5	
		10.00	6.8	
		254	3.1	
4 DN100 x 2 DN50	4.500 114.3 x 2.375 60.3	10.00	7.5	
		254	3.4	
		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	
		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	
		12.00	26.0	
		305	11.8	
6 DN150	6.625 168.3	12.00	26.0	
		305	11.8	
		13.00	40.0	
		330	18.1	
10 DN250 x 6 DN150	10.750 273.0 x 6.625 168.3	13.00	43.0	
		330	19.5	
		14.00	52.5	
		356	23.8	
8 DN200	8.625 219.1	14.00	57.0	
		356	25.9	
		14.00	57.0	
		356	25.9	
12 DN300 x 8 DN200	12.750 323.9 x 8.625 219.1	14.00	57.0	
		356	25.9	
		14.00	57.0	
		356	25.9	
10 DN250	10.750 273.0	14.00	57.0	
		356	25.9	
		14.00	57.0	
		356	25.9	

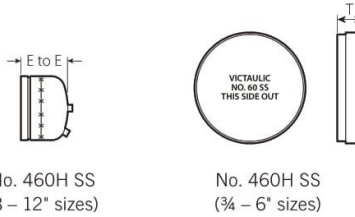


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#### 4.1 DIMENSIONS (Continued)

##### Cap

##### No. 460H SS



No. 460H SS  
(8 – 12" sizes)

No. 460H SS  
(¾ – 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
¾ DN20	1.130 26.9	0.91 23	N/A	0.2 0.10
1 DN25	1.325 33.7	0.91 23	N/A	0.3 0.14
1¼ DN32	1.750 42.4	0.94 24	½	0.6 0.27
1½ DN40	1.900 48.3	0.94 24	¾	0.7 0.32
2 DN50	2.375 60.3	0.94 24	1	1.2 0.54
2½	2.875 73.0	0.97 25	1½	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	2½	4.6 2.09
6 DN150	6.625 168.3	1.03 26	3	10.1 4.58
8 <sup>1</sup> DN200	8.625 219.1	6.25 159	*	21.8 9.89
10 <sup>1</sup> DN250	10.750 273.0	7.25 184	*	34.0 15.42
12 <sup>1</sup> DN300	12.750 323.9	8.50 216	*	47.9 21.73

<sup>1</sup> Denotes dish caps

\* Contact Victaulic for tap sizes

##### NOTES

- Sizes 8"– 12" have an End to End dimension of that listed. Thickness does not apply.
- End caps are available with an NPT/BSPT tapped port. Contact Victaulic for more information.