



## 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	

### 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:

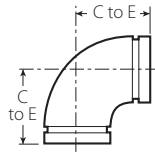
- Standard: For use with Schedule 10S pipe, Schedule 10S, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 774/A 744M.

## 4.0 DIMENSIONS

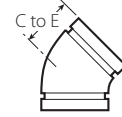
### Elbows

No. 410 SS 90° Long Radius Elbow

No. 411 SS 45° Elbow



No. 410 SS



No. 411 SS

Size		No. 410 SS 90° Elbow		No. 411 SS 45° Elbow	
Nominal	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each
inches DN	inches mm	inches mm	lb kg	inches mm	lb kg
1 <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
DN65	3.000	3.75	2.8	2.25	1.3
	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
DN125	5.500	7.50	7.8	3.13	3.1
	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
216 JIS	8.000	12.00	20.7	5.00	9.7
	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
267 JIS	10.000	15.00	35.7	6.25	17.7
	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
318 JIS	12.000	18.00	54.2	7.50	21.1
	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)