



1.0 PRODUCT DESCRIPTION

Available Sizes:

- 3/4 – 12"/20 – 300 mm.

Maximum Working Pressure:

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

Function:

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

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

Codes and requirements:

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

2.0 CERTIFICATION/LISTINGS



NOTES

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

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

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

3.0 MATERIAL SPECIFICATIONS (Continued)

Schedule 10S Material Specifications:

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

90° & 45° Elbows:

1 – 2 ½"/25 – 65 mm and 76.1 mm:

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

3 – 12"/80 – 300 mm:

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

22 ½° & 11 ¼° Elbows:

¾ – 12"/20 – 300 mm:

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

Tees:

1 – 1 ¼"/25 – 32 mm:

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

1 ½ – 2 ½"/40 – 65 mm and 76.1 mm:

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

3 – 12"/80 – 300 mm:

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

Reducing Tees:

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

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

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

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

Laterals, True Wyes, Crosses:

¾ – 12"/20 – 300 mm:

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

3.0 MATERIAL SPECIFICATIONS (Continued)

Schedule 10S Material Specifications:

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

Adapter Nipples:

$\frac{3}{4}$ – 12"/20 – 300 mm:

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

Concentric Reducers:

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

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

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

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

Eccentric Reducers:

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

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

Caps:

$\frac{3}{4}$ – 12"/20 – 300 mm:

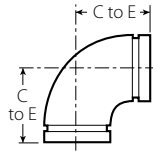
For use with Schedule 10S pipe, Grade CF8M (Type 316 stainless steel) conforming to ASTM A 351/A 351M, A 743/A 743M and A 744/A 744M.

4.0 DIMENSIONS

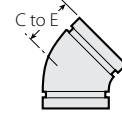
Elbows

No. 410 SS 90° Long Radius Elbow

No. 411 SS 45° Elbow



No. 410 SS



No. 411 SS

Size		No. 410 SS 90° Elbow		No. 411 SS 45° Elbow	
Nominal inches mm	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 25	1.315 33.7	2.88 73	0.7 0.3	2.00 51	0.6 0.3
1¼ 32	1.660 42.4	3.13 80	1.0 0.5	2.00 51	0.8 0.4
1½ 40	1.900 48.3	3.50 89	1.4 0.6	2.13 54	1.0 0.5
2 50	2.375 60.3	4.50 114	2.2 1.0	2.75 70	1.6 0.7
2½ 65	2.875 73.0	5.00 127	3.3 1.5	2.88 73	2.2 1.0
76.1 mm	3.000 76.1	3.75 95	2.8 1.3	2.25 57	1.3 0.6
3 80	3.500 88.9	4.50 114	2.6 1.2	2.00 51	1.3 0.6
4 100	4.500 114.3	6.00 152	4.7 2.1	2.50 63	2.3 1.0
139.7 mm	5.500 139.7	7.50 190	7.8 3.5	3.13 79	3.1 1.4
165.1 mm	6.500 165.1	9.00 229	10.8 4.9	3.75 95	5.3 2.4
6 150	6.625 168.3	9.00 229	11.0 5.0	3.75 95	5.5 2.5
216 JIS	8.000 216.3	12.00 305	20.7 9.4	5.00 127	9.7 4.4
8 200	8.625 219.1	12.00 305	21.2 9.6	5.00 127	11.0 5.0
267 JIS	10.000 267.4	15.00 381	35.7 16.2	6.25 159	17.7 8.0
10 250	10.750 273.0	15.00 381	36.6 16.6	6.25 159	18.5 8.4
318 JIS	12.000 318.5	18.00 457	54.2 24.6	7.50 190	21.1 9.6
12 300	12.750 323.9	18.00 457	59.6 27.0	7.50 190	28.4 12.9