

Victaulic® StrenghThin™ 100 Fittings for Stainless Steel



1.0 PRODUCT DESCRIPTION

Available Sizes:

- 2 – 6"/50 – 150 mm

Maximum Working Pressure:

- Fitting pressure ratings are equivalent to the pressure ratings of the Victaulic coupling used to install them. (See section 7.0 for Reference Materials.)

Function:

- Connects pipe sections, provides change in direction, and adapts sizes or components.
- All fittings are supplied with Victaulic StrenghThin™ 100 grooves. Fittings are exclusively for use with Victaulic StrenghThin™ 100 couplings, valves, accessories and pipe which feature ends formed with the Victaulic StrenghThin™ 100 groove profile (see section 7.0 for Reference Materials)

2.0 CERTIFICATION/LISTINGS

Not applicable - contact Victaulic with any questions.

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

Fittings:

Cast Fittings: Stainless steel per ASTM A351/A351M, Grade CF8 or CF8M

Wrought Fittings: Stainless steel per EN 10088-1 No.1.4307 (304L) or EN 10088-1 No. 1.4404 (316L)

No. E490 90° Elbow

2"/50 mm and 76.1 mm: Cast

3 – 6"/80 – 150 mm: Wrought

No. E491 45° Elbow

2 – 3"/50 – 80 mm: Cast

4"/100 mm, 139.7 mm and 6"/150 mm: Wrought

No. E492 Tee

2 – 6"/50 – 150 mm: Wrought

No. E493 Reducing Tee

76.1 mm x76.1 mm x2" and 3"x3"x2" and 4"x4"x2": Cast

3"x3"x76.1 mm to 6"x6"x4": Wrought

No. E494 and 494G Adapter Nipple

2 – 6"/50 – 150 mm: Wrought

No. E495 Concentric Reducer

76.1 mm x 2", 3"x2", 4"x2": Cast

3"x76.1 mm, 4"x76.1 mm, 4"x3", 139.7 mm x3", 139.7x4", 6"x3", 6"x4", 6"x139.7 mm: Wrought

No. E496 Cap

2 – 6"/50 – 150 mm: Cast

No. E498 Flange Adapter

Stub Material

2"/50 mm, 3"/80 mm, 4"/100 mm and 6"/150 mm: ASTM A403, Class WP, Grade 304/304L or 316 /316L

76.1 mm and 139.7 mm: Cast

Flange Material

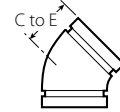
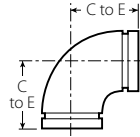
Stainless Steel Flange Per EN10222-5 1.4401/1.4404 (316/316L) PN16 according to EN1092-1 Type 02

4.0 DIMENSIONS

Elbows

No. E490 90° Elbow

No. E491 45° Elbow



Size		No. E490 90° Elbow		No. E491 45° Elbow	
Nominal inches mm	Actual Outside Diameter inches mm	C to E inches mm	Approximate Weight Each lb kg	C to E inches mm	Approximate Weight Each lb kg
2 50	2.375 60.3	3.13 79	1.7 0.8	1.88 48	1.2 0.5
76.1 mm	3.000 76.1	3.75 95	2.6 1.2	2.00 51	1.8 08
3 80	3.500 88.9	4.50 114	1.7 0.8	2.13 54	2.2 1.0
4 100	4.500 114.3	6.00 152	2.9 1.3	2.50 64	1.5 07
139.7 mm	5.500 139.7	7.50 191	4.5 2.0	3.13 80	1.8 0.8
6 150	6.625 168.3	9.00 229	6.5 3.0	3.75 95	3.2 1.5

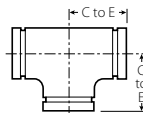
NOTE

- Dimensions shown have been rounded up to nearest 1/32" / 3.175 mm.

4.1 DIMENSIONS

Tees

No. E492



Size		No. E492 Tee	
Nominal inches mm	Actual Outside Diameter inches mm	C to E inches mm	Approximate Weight Each lb kg
2 50	2.375 60.3	3.25 83	2.1 1.0
76.1 mm	3.000 76.1	3.75 95	2.9 1.3
3 80	3.500 88.9	4.00 102	2.1 1.0
4 100	4.500 114.3	4.59 114	3.2 1.5
139.7 mm	5.500 139.7	5.25 133	4.6 2.1
6 150	6.625 168.3	5.88 149	6.8 3.1

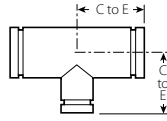
NOTE

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4.2 DIMENSIONS

Reducing Tees

No. E493



Size		No. E493 Reducing Tee	
Nominal inches mm		C to E inches mm	Approximate Weight Each lb kg
76.1mm	x 76.1mm	3.50 89	3.4 1.5
3 80	x 3 80	3.50 89	3.5 1.6
	x 76.1mm	3.75 95	2.0 0.9
4 100	x 4 100	3.75 95	5.1 2.3
	x 76.1mm	4.50 114	3.2 1.5
	x 3 80	4.50 114	3.2 1.5
139.7mm	x 139.7mm	5.28 134	4.0 1.8
	x 4 100	5.28 134	4.6 2.1
6 150	x 6 150	5.91 150	5.6 2.5
	x 139.7mm	5.91 150	5.8 2.6

NOTE

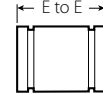
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4.3 DIMENSIONS

Adapter Nipples

No. E494 Plain End x Grv.

No. E494G Grv. x Grv.



Size		No. E494 Adapter Nipple (Plain End x Grv.)		No. E494G Adapter Nipple (Grv x Grv)	
Nominal inches mm	Actual Outside Diameter inches mm	E to E inches mm	Approximate Weight Each lb kg	E to E inches mm	Approximate Weight Each lb kg
2	2.375	4.00	0.6	4.00	0.6
50	60.3	102	0.3	102	0.3
76.1 mm	3.000	4.00	0.8	4.00	0.8
	76.1	102	0.4	102	0.4
3	3.500	4.00	1.1	4.00	1.1
80	88.9	102	0.5	102	0.5
4	4.500	6.00	2.4	6.00	2.4
100	114.3	152	1.1	152	1.1
139.7 mm	5.500	6.00	3.8	6.00	3.8
	139.7	152	1.7	152	1.7
6	6.625	6.00	3.9	6.00	3.9
150	168.3	152	1.8	152	1.8

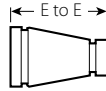
NOTE

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4.4 DIMENSIONS

Concentric Reducers

No. E495



Size		No. E495 Concentric Reducer	
Nominal inches mm		E to E inches mm	Approximate Weight Each lb kg
76.1 mm	x 60.3 mm	—	1.3 0.6
3 80	x 2 50	—	1.8 0.8
	x 76.1 mm	—	1.1 0.5
4 100	x 2 50	—	2.5 1.1
	x 76.1 mm	—	1.3 0.6
	x 3 80	—	1.5 0.7
139.7 mm	x 3 80	—	1.8 0.8
	x 4 100	—	1.9 0.9
6 150	x 4 100	—	2.5 1.1
	x 139.7 mm	—	2.6 1.2

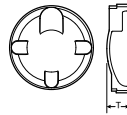
NOTE

- Dimensions shown have been rounded up to nearest 1/32" / 3.175 mm.

4.5 DIMENSIONS

Caps

No. E496



Size		No. E496 Cap	
Nominal inches mm	Actual Outside Diameter inches mm	Thickness "T" inches mm	Approximate Weight Each lb kg
2 50	2.375 60.3	1.00 25	0.8 0.4
76.1 mm	3.000 76.1	1.00 25	1.4 0.6
3 80	3.500 88.9	1.00 25	1.8 0.8
4 100	4.500 114.3	1.00 25	3.2 1.5
139.7 mm	5.500 139.7	1.06 27	5.0 2.3
6 150	6.625 168.3	1.06 27	7.5 3.4

NOTE

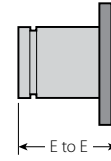
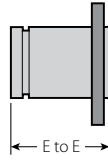
- Dimensions shown have been rounded up to nearest 1/32" / 3.175 mm.

4.6 DIMENSIONS

Flange Adapter

No. E498 PN10

No. E498 PN16



Size		No. E498 Flange Adapter PN10		No. E498 Flange Adapter PN16	
Nominal inches mm	Actual Outside Diameter inches mm	E to E inches mm	Approximate Weight Each lb kg	E to E inches mm	Approximate Weight Each lb kg
2 50	2.375 60.3	2.50 64	+	2.50 64	+
76.1 mm	3.000 76.1	2.50 64	+	2.50 64	+
3 80	3.500 88.9	2.50 64	+	2.50 64	+
4 100	4.500 114.3	3.00 76	+	3.00 76	+
139.7 mm	5.500 139.7	3.00 76	+	3.00 76	+
6 150	6.625 168.3	3.50 89	+	3.50 89	+

+ Contact Victaulic for details.

NOTE

- Dimensions shown have been rounded up to nearest 1/8"/3.175 mm.

5.0 PERFORMANCE

Not applicable - contact Victaulic with any questions

6.0 NOTIFICATIONS

Not applicable - contact Victaulic with any questions

7.0 REFERENCE MATERIALS

[05.01: Victaulic Gasket/Seal Selection Guide](#)

[GSG-100: Victaulic Gasket Chemical Services Guide - Long Report](#)

[17.01: Victaulic Pipe Preparation for 304/316 Stainless Steel Pipe](#)

[24.01: Victaulic Tools](#)

VS-25.13: Victaulic StrenThin™ 100 Groove Specifications

VS-31.02: Victaulic Style E497 StrenThin™ 100 Rigid Coupling for Stainless Steel Pipe

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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