

Victaulic® StengThin™ 100 System

Style E497 Rigid Coupling for Stainless Steel Pipe



1.0 PRODUCT DESCRIPTION

Available Sizes:

- 2 – 6"/50 – 150 mm

Pipe Material:

- Designed for use on 2 mm wall, 304/304L and 316/316L stainless steel pipe per BS EN 10217-7

Maximum Working Pressure:

- Designed for full vacuum (29.9 in Hg/750 mm Hg) up to 232 psi/1600 kPa/16 bar

Operating Temperature Range:

- -30°F/-34°C to +250°F/+121°C

Function:

- Joins 2 mm wall 304/304L and 316/316L stainless steel pipe
- Does not accommodate expansion, contraction, or angular deflection
- Rigid coupling featuring patented Victaulic Installation-Ready™ technology

Pipe Preparation:

- Exclusively for use with fittings, valves, accessories and pipe which feature ends formed with the Victaulic StengThin™ 100 groove profile (see section 7.0 for Reference Materials)

Notes:

- Coatings applied to the interior surfaces, including bolt pad mating surfaces, of our grooved and bolted plain end couplings should not exceed 0.010"/0.25 mm.

2.0 CERTIFICATION/LISTINGS

Not applicable – contact Victaulic with any questions.

3.0 MATERIAL SPECIFICATIONS

Housing: Ductile iron conforming to ASTM A536, Grade 65-45-12

Housing Coating: (specify choice)

Standard: Hot dipped galvanized

Optional: Orange enamel

Gasket¹: Grade “EHP” EPDM

EPDM (Red and Green stripe color code). Temperature range -30°F to +250°F/-34°C to +121°C. May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and NSF 372. NOT COMPATIBLE FOR PETROLEUM SERVICES.

¹ Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest Victaulic Gasket/Seal Selection Guide for specific gasket service guidelines and for a listing of services which are not compatible

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

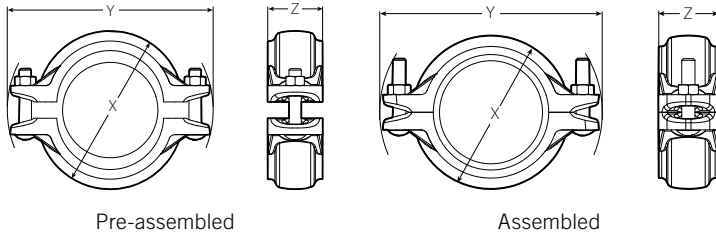


3.0 MATERIAL SPECIFICATIONS (CONTINUED)

Bolts/Nuts:

Carbon steel oval neck track bolts meeting the physical and chemical requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (metric). Carbon steel hex nuts meeting the physical and chemical requirements of ASTM A563 Grade B (imperial - heavy hex nuts) and ASTM A563M Class 9 (metric - hex nuts). Track bolts and hex nuts are zinc electroplated per ASTM B633 ZN/FE5, finish Type III (imperial) or Type II (metric).

4.0 DIMENSIONS



Nominal Size inches mm	Actual Outside Diameter inches mm	Qty.	Bolt/Nut Size inches mm	Dimensions					Approx. Weight Each lb kg
				Pre-assembled Condition (Installation-Ready™)		Assembled Condition			
				X inches mm	Y inches mm	X inches mm	Y inches mm	Z inches mm	
2 50	2.375 60.3	2	3/8 × 2 1/2 M10 × 2 1/2	4.00 101.6	5.13 130.3	3.63 92.2	5.00 127.0	2.25 57.2	3.9 1.8
76.1 mm	3.000 76.1	2	3/8 × 2 1/2 M10 × 2 1/2	4.63 117.6	6.25 158.8	4.25 108.0	6.13 155.7	2.25 57.2	4.7 2.1
3 80	3.500 88.9	2	3/8 × 2 1/2 M10 × 2 1/2	5.25 133.4	6.63 168.9	4.75 120.7	6.50 165.1	2.25 57.2	4.9 2.2
4 100	4.500 114.3	2	3/8 × 2 1/2 M10 × 2 1/2	6.50 165.1	8.13 206.5	6.00 152.4	8.00 203.2	2.25 57.2	4.8 2.2
139.7 mm	5.500 139.7	2	1/2 × 3 1/4 M12 × 3 1/4	7.75 196.9	9.25 235.0	7.13 181.1	9.13 231.9	2.25 57.2	6.0 2.7
6 150	6.625 168.3	2	1/2 × 3 1/4 M12 × 3 1/4	8.75 222.3	10.36 263.1	8.25 209.6	10.25 260.4	2.25 57.2	7.1 3.2

NOTES

- For field installation only. The Style E497 is essentially a rigid coupling and does not permit expansion or contraction.
- Dimensions shown have been rounded up to next nearest 1/8"/3.175 mm.
- WARNING: Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.

5.0 PERFORMANCE

Nominal Size inches mm	Actual Outside Diameter inches mm	Victaulic Groove Profile	EN 10217-7 Pipe		
			Wall Thickness inches mm	Maximum Joint Working Pressure psi kPa	Maximum Permissible End Load lb N
2 50	2.375 60.3	StengThin™ 100	0.079 2.0	232 1600	1028 4573
76.1 mm	3.000 76.1	StengThin™ 100	0.079 2.0	232 1600	1640 7295
3 80	3.500 88.9	StengThin™ 100	0.079 2.0	232 1600	2232 9928
4 100	4.500 114.3	StengThin™ 100	0.079 2.0	232 1600	3690 16414
139.7 mm	5.500 139.7	StengThin™ 100	0.079 2.0	232 1600	5512 24519
6 150	6.625 168.3	StengThin™ 100	0.079 2.0	232 1600	7997 35572

NOTES

- Working Pressure and End Load are total, from all internal and external loads, based on stainless steel pipe, roll grooved with Victaulic rolls in accordance with Victaulic specifications. Roll sets for grooving the Victaulic patented StengThin™ 100 groove profile, must be used. Contact Victaulic for performance on other pipe. See submittal [publication 24.01](#) for more information pertaining to tools. See submittal [publication 17.01](#) for more information on preparing stainless steel pipe for use with Victaulic products. See submittal [publication 25.13](#) for the Victaulic StengThin™ 100 Groove Specifications.
- WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown.

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

25.13: Victaulic StengThin™ 100 Groove Specifications

31.04: Victaulic StengThin™ 100 Fittings for Stainless Steel Pipe

I-E497: Victaulic Style E497 Field Installation Instructions

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 [I-100 Victaulic Field Installation Handbook](#) or the 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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