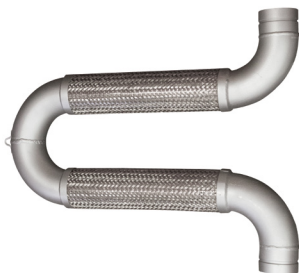


# Victaulic® Flexible Loop for Steam

## Series 159



### 1.0 PRODUCT DESCRIPTION

#### Available Sizes

- 2 – 8"/DN50 – DN200

#### Maximum Working Pressure

- Suitable for use in saturated steam systems up to 150 psi/1034 kPa. Not suitable for use in superheated steam applications.
- For nonsteam applications: Provides working pressures ranging from full vacuum (29.9 inches Hg/760 mm Hg) up to 150 psi/1034 kPa.

#### Operating Temperature

- +32°F to +366°F/0°C to +186°C

#### Function

- Accommodates piping movement from thermal changes, seismic activity, and differential building settlement.
- Considerations must be made for the Series 159 Flexible Loop to be installed in an orientation that alleviates trapped condensate.

#### Pipe Preparation

- The Series 159 Flexible Loop is exclusively for use on pipe, couplings, valves, fittings and accessories featuring the Victaulic OGS-200 groove profile (see section 7.0 for Reference Materials).

### 2.0 CERTIFICATION/LISTINGS

The Series 159 Flexible Loop for Steam is compliant with ASME B31.1 and B31.3 for means of increasing flexibility to the piping system.

### 3.0 SPECIFICATIONS – MATERIAL

**End Connections:** Schedule 40 carbon steel with Victaulic OGS-200 grooved ends.

**Corrugated Hose:** 321 stainless steel.

**Braid:** 304 stainless steel.

**90° Elbow:** Schedule 40 carbon steel conforming to ASTM A243 Grade WPB.

**180° Return:** Schedule 40 carbon steel conforming to ASTM A243 Grade WPB.

**Support Bracket:** Carbon steel.

**Fitting Coating:** Zinc coating.

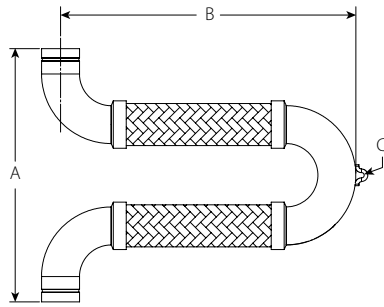
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

## 4.0 DIMENSIONS

### Series 159 Flexible Loop for Steam



Size		Dimensions			Weight
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	B inches mm	C Maximum Hanger Rod Size inches mm	Approximate (Each) lb kg
2 DN50	2.375 60.3	20.00 508	24.50 622	0.63 16	18.0 8.2
2½	2.875 73.0	21.50 246	28.25 718	0.63 16	29.0 13.2
3 DN80	3.500 88.9	24.00 610	30.00 762	0.63 16	43.0 19.5
4 DN100	4.500 114.3	30.00 762	35.38 899	0.63 16	60.0 27.2
6 DN150	6.625 168.3	36.00 914	40.25 1022	0.75 19	150.0 68.0
8 DN200	8.625 219.1	42.00 1067	45.38 1153	0.75 19	286.0 129.7

## 5.0 PERFORMANCE







### Series 159 Flexible Loop for Steam

Size		Movement <sup>1</sup> inches mm
Nominal inches DN	Actual Outside Diameter inches mm	
2 DN50	2.375 60.3	±4.00 ±102
2½	2.875 73.0	±4.00 ±102
3 DN80	3.500 88.9	±4.00 ±102
4 DN100	4.500 114.3	±4.00 ±102
6 DN150	6.625 168.3	±4.00 ±102
8 DN150	8.625 219.1	±4.00 ±102

<sup>1</sup> This movement is the sum of all expected pipe movement, including thermal, seismic and building settlement.

## 6.0 NOTIFICATIONS

**⚠ WARNING**



- **Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.**
- **Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.**
- **Wear safety glasses, hardhat, and foot protection.**

**Failure to follow these instructions could result in death or serious personal injury and property damage.**

## 7.0 REFERENCE MATERIALS

- [25.12: Victaulic OGS-200 Roll Groove Specifications](#)
- [100.01: Victaulic OGS-200 Grooved End Fittings](#)
- [100.02: Victaulic Rigid Coupling Style 870](#)
- [100.12: Victaulic Gate Valve Series 871](#)
- [I-870: Victaulic Installation Instructions Style 870 Rigid Coupling](#)
- [I-159: Victaulic Installation Instructions Series 159 Flexible Loop for Steam](#)

### 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, and the applicable building codes and related regulations 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](http://www.victaulic.com).

### Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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