

# Victaulic® Schedule 80 3D Long Radius Cast Ductile Iron Elbows



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## 1.0 PRODUCT DESCRIPTION

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### Available Sizes

- 6 – 8"/DN150 – DN200

### Maximum Working Pressure

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

### Application

- Provides change in direction.
- Supplied with *Victaulic* EndSeal™ (ES) grooves.
- Available 3D radius in 90°, 45°, 22 ½°, 11 ¼° and 6° elbows.

### Pipe Preparation

- Exclusively for use with *Victaulic* couplings. Prepare pipe ends in accordance with [Publication 25.02](#).

### Pipe Materials

- Carbon and Stainless Steel.

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## 2.0 CERTIFICATION/LISTINGS

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Product designed and manufactured under the Victaulic Quality Management System, as certified by LPCB in accordance with ISO-9001:2008.

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## 3.0 SPECIFICATIONS – MATERIAL

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**Fitting:** Ductile iron conforming to ASTM A-536, Grade 65-45-12 Schedule 80 thickness.

### Coating: (specify choice)

Standard: Orange enamel.

Optional: Hot dipped galvanized.

Optional: Others, contact Victaulic with your requirements.

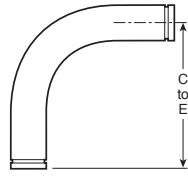
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

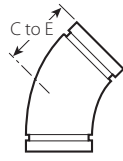
Spec Section		Paragraph	
Approved		Date	

## 4.0 DIMENSIONS

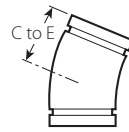
### Schedule 80 3D Long Radius Cast Ductile Iron Elbows



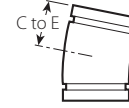
No.100 - 3D



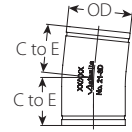
No.110 - 3D



No.12 - 3D



No.13 - 3D



No.21 - 3D

Fitting Size		No. 100 - 3D 90° Elbow		No. 110 - 3D 45° Elbow		No. 12 - 3D 22½° Elbow		No. 13 - 3D 11¼° Elbow		No. 21 - 3D 6° 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	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg	C to E inches mm	Approx. Weight (Each) lb kg
6 150	6.625 168.3	24.00 610	86.3 39.1	13.50 343	56.2 25.5	9.50 241	41.4 18.8	7.75 197	35.6 16.2	5.00 127	21.7 9.9
8 200	8.625 219.1	32.00 813	154.7 70.3	9.908 45	18.0 457.2	12.75 324	75.0 34.1	10.50 267	66.1 30.1	5.25 133	31.0 14.1

#### NOTES

- Bends conform to above radii.
- C to E tolerances: 6"/150mm ± 1/8"/3.175mm; 8"/200mm ± 1/4"/6.35mm.
- All fittings are Schedule 80 wall thickness.

## 5.0 PERFORMANCE

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

## 6.0 NOTIFICATIONS

### WARNING



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, foot and ear protection.

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

## 7.0 REFERENCE MATERIALS

[06.02: Rigid Coupling Style 07](#)

[06.04: Flexible Coupling Style 77](#)

[06.12: Rigid High Pressure Coupling Style HP-70](#)

[06.13: Victaulic EndSeal™ Coupling Style HP-70ES](#)

[06.15: Pressure Ratings and End Loads for Victaulic Couplings on Steel Pipe](#)

[06.23: QuickVic™ Rigid Coupling Style 107N](#)

[06.24: QuickVic™ Flexible Coupling Style 177N](#)

[24.01: Victaulic Pipe Preparation Tools](#)

[25.02 EndSeal™ Pipe Groove Specifications](#)

[26.01: Design Data](#)

[29.01: Terms and Conditions/Warranty](#)

[I-100: Field Installation Handbook](#)

### 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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