



No. V10



No. V11



No. V20



No. V15F

## 1.0 PRODUCT DESCRIPTION

### Available Sizes

- 2 – 12"/DN50 – DN300

### Pipe Material

- Carbon steel

### Maximum Working Pressure

- 400 psi/2758 kPa

### Application

- Connects pipe and provides change in direction
- Supplied with Victaulic Original Groove System (OGS) grooved ends
- Exclusively for use with Victaulic couplings, valves, accessories and pipe which feature ends formed with the Victaulic OGS groove profile

### NOTES

- QuickVic™ grooved end fittings are intended for use only in grooved piping systems and are not intended for use with Victaulic plain end couplings.
- QuickVic™ grooved end fittings shall not be used with flange adapters, such as the Victaulic Style 741 or 743 *Vic-Flange* Adapters. When connecting to flanged components, a No. V15 or No. V16 flanged elbow shall be used.

## 2.0 CERTIFICATION/LISTINGS

Not applicable – contact Victaulic with any questions.

## 3.0 SPECIFICATIONS - MATERIAL

**Fitting:** Ductile iron conforming to ASTM A536, Grade 65-45-12.

### Fitting Coating: (specify choice)

Standard:

No. V10, V11, V20: Orange coating

No. V15F/R and V16F/R: Orange and Black coating

Optional: Hot dipped galvanized as per ASTM A123.

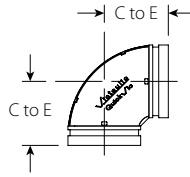
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

## 4.0 DIMENSIONS

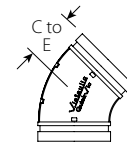
### Elbows

No. V10 90° Elbow

No. V11 45° Elbow



No. V10



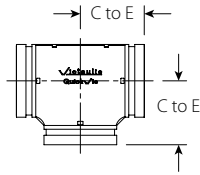
No. V11

Size		No. V10 90° Elbow		No. V11 45° Elbow	
		Dimensions	Weight	Dimensions	Weight
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. (Each) lb kg	C to E inches mm	Approx. (Each) lb kg
2 DN50	2.375 60.3	2.75 70	1.5 0.7	2.00 51	1.2 0.5
2 ½	2.875 73.0	3.00 76	2.0 0.9	2.25 57	1.7 0.8
DN65	3.000 76.1	3.00 76	2.0 0.9	2.25 57	1.7 0.8
3 DN80	3.500 88.9	3.38 86	2.7 1.2	2.50 64	2.3 1.0
4 DN100	4.500 114.3	4.00 102	4.1 1.9	3.00 76	3.5 1.6
DN125	5.500 139.7	4.88 124	5.8 2.6	3.25 83	4.9 2.2
5	5.563 141.3	4.88 124	7.3 3.3	3.25 83	5.4 2.4
	6.500 165.1	5.50 140	10.2 4.6	3.50 89	6.7 3.0
6 DN150	6.625 168.3	5.50 140	9.7 4.4	3.50 89	7.1 3.2
8 DN200	8.625 219.1	6.81 173	26.0 11.8	4.25 108	18.6 8.4
10 DN250	10.750 273.0	8.25 210	42.2 19.2	4.00 102	24.9 11.3
12 DN300	12.750 323.9	9.38 238	68.0 30.8	4.50 114	36.8 16.7

## 4.1 DIMENSIONS

### Tee

#### No. V20 Straight Tee



No. V20

Size		Dimensions		Weight
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm		Approx. (Each) lb kg
2 DN50	2.375 60.3	2.75 70		2.2 1.0
2 ½	2.875 73.0	3.00 76		3.4 1.5
DN65	3.000 76.1	3.00 76		3.2 1.5
3 DN80	3.500 88.9	3.38 86		3.2 1.5
4 DN100	4.500 114.3	4.00 102		5.8 2.6
DN125	5.500 139.7	4.88 124		11.3 5.1
5	5.563 141.3	4.88 124		14.4 6.5
	6.500 165.1	5.50 140		17.0 7.7
6 DN150	6.625 168.3	5.50 140		20.7 9.4
8 DN200	8.625 219.1	6.81 173		36.9 16.8
10 DN250	10.750 273.0	8.25 210		63.7 28.9
12 DN300	12.750 323.9	9.38 238		86.3 39.2

## 4.2 DIMENSIONS

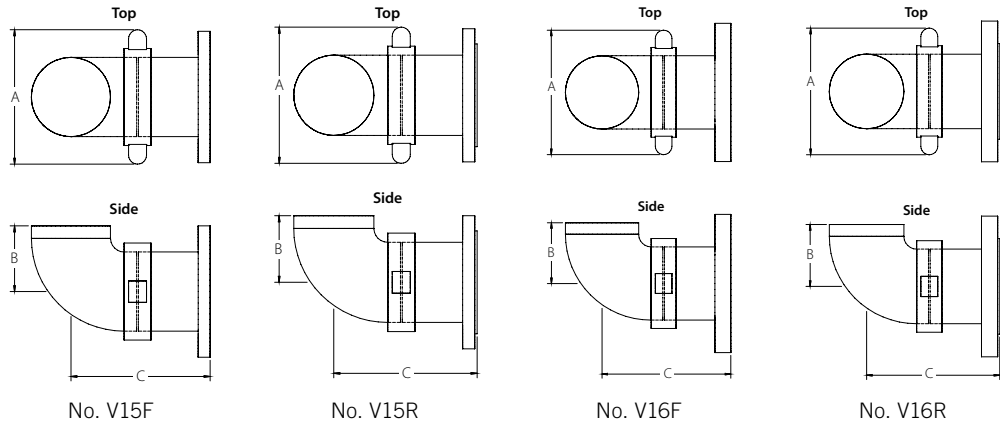
### Flanged Elbows

No. V15F ANSI Class 150 Flanged Elbow (Flat Face)

No. V15R ANSI Class 150 Flanged Elbow (Raised Face)

No. V16F ANSI Class 300 Flanged Elbow (Flat Face)

No. V16R ANSI Class 300 Flanged Elbow (Raised Face)



Size		No. V15F and No. V15R ANSI Class 150 Flanged Elbow				No. V16F and No. V16R ANSI Class 300 Flanged Elbow			
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	B inches mm	C inches mm	Approx. Weight (Each) lb kg	A inches mm	B inches mm	C inches mm	Approx. Weight (Each) lb kg
2 DN50	2.375 60.3	6.13 156	2.75 70	6.88 175	10.2 4.6	6.13 156	2.75 70	6.88 175	12.4 5.6
2½	2.875 73.0	6.75 171	3.00 76	7.13 181	14.9 6.8	6.75 171	3.00 76	7.13 181	16.9 7.7
3 DN80	3.500 88.9	7.50 191	3.38 86	7.63 194	18.1 8.2	7.50 191	3.38 86	7.63 194	22.9 10.4
4 DN100	4.500 114.3	8.75 222	4.00 102	10.13 257	27.7 12.6	8.75 222	4.00 102	10.13 257	36.6 16.6
6 DN150	6.625 168.3	11.25 286	5.50 140	11.63 295	45.4 20.6	11.25 286	5.50 140	11.63 295	65.4 29.7
8 DN200	8.625 219.1	14.25 362	6.81 173	13.06 332	82.4 37.4	14.25 362	6.81 173	13.06 332	111.4 50.5
10 DN250	10.750 273.0	17.13 435	8.25 210	16.44 418	129.8 58.9	17.13 435	8.25 210	16.44 418	166.6 75.6
12 DN300	12.750 323.9	19.00 483	9.38 238	17.69 449	183.2 83.1	19.00 483	9.38 238	17.69 449	241.4 109.5

## 5.0 PERFORMANCE

### Flow Data







#### Frictional Resistance

This chart expresses the frictional resistance of the Victaulic QuickVic™ Grooved End Fittings as equivalent feet of straight pipe.

Size		No. V10 90° Elbow	No. V11 45° Elbow	No. V20 Tee	
Nominal inches DN	Actual Outside Diameter inches mm			Branch ft m	Run ft m
2 DN50	2.375	3.5	1.8	8.5	3.5
	60.3	1.1	0.5	2.6	1.1
2½	2.875	4.3	2.2	10.8	4.3
	73.0	1.3	0.7	3.3	1.3
DN65	3.000	4.5	2.3	11.0	4.5
	76.1	1.4	0.7	3.4	1.4
3 DN80	3.500	5.0	2.6	13.0	5.0
	88.9	1.5	0.8	4.0	1.5
4 DN100	4.500	6.8	3.4	16.0	6.8
	114.3	2.1	1.0	4.9	2.1
DN125	5.500	8.3	4.1	20.6	8.3
	139.7	2.5	1.3	6.3	2.5
5	5.563	8.5	4.2	21.0	8.5
	141.3	2.6	1.3	6.4	2.6
	6.500	9.8	4.9	24.5	9.8
	165.1	3.0	1.5	7.5	3.0
6 DN150	6.625	10.0	5.0	25.0	10.0
	168.3	3.0	1.5	7.6	3.0
8 DN200	8.625	13.0	6.5	33.0	13.0
	219.1	4.0	2.0	10.1	4.0
10 DN250	10.750	17.0	8.3	41.0	17.0
	273.0	5.2	2.5	12.5	5.2
12 DN300	12.750	20.0	10.0	50.0	20.0
	323.9	6.1	3.0	15.2	6.1

## 6.0 NOTIFICATIONS

**⚠ WARNING**



- Read and understand all instructions before attempting to install any Victaulic 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.
- Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, foot protection, and hearing protection.

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

## 7.0 REFERENCE MATERIALS

- [06.33: Victaulic QuickVic™ Installation-Ready™ Rigid Coupling Style 107V](#)
- [07.01: Victaulic OGS Grooved End Fittings](#)
- [29.01: Victaulic Terms and Conditions of Sale](#)
- [I-100: Victaulic Field Installation Handbook](#)

### User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation 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, warranty, installation instructions, or this disclaimer.

### Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for 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 [victaulic.com](#).

### Warranty

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

### Intellectual Property Rights

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### Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.