



1.0 PRODUCT DESCRIPTION

Available Sizes

- 2 – 8"/DN50 – DN200

Maximum Working Pressure

- Fitting pressure ratings are equivalent to the pressure ratings of the Victaulic coupling used to install them (see section 6.0 for Reference Materials).

Function

- Connects pipe sections, provides change in direction, and adapts sizes or components.
- All fittings are supplied with the Victaulic OGS-200 groove profile. These fittings are used exclusively with pipe, valves and accessories featuring the Victaulic OGS-200 groove profile (see section 6.0 for Reference Materials).

Codes and Requirements

- Fittings utilizing the Victaulic OGS-200 groove profile are designed in accordance with ASME B31.1, ASME B31.3 and ASME B31.9 codes.

NOTE

- Coatings applied to the fitting's and pipe's outer diameter in and around the Victaulic groove can interfere with the effectiveness of the joining solution and are not recommended. Contact Victaulic with questions related to fitting and pipe coatings.

2.0 CERTIFICATION/LISTINGS



3.0 SPECIFICATIONS - MATERIAL

Cast Fittings: Cast carbon steel, conforming to ASTM A216 Grade WCB.

Fabricated Fittings: Wrought carbon steel, conforming to ASTM A234 Grade WPB and ASTM A106 Grade B.

Flange Adapter Nipples:

Cast Flange Adapter Nipples: Class 150 and Class 300 Flanges: Cast carbon steel, conforming to ASTM A216 Grade WCB and ANSI B16.5, raised or flat face.

Fabricated Flange Adapter Nipples: Class 150 and Class 300 Flanges: Wrought carbon steel, conforming to ASTM A234 Grade WPB and ASTM A106 Grade B, raised or flat face.

Coating:

Zinc coating.

NOTE

- Contact Victaulic for other coating options.

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

System No.		Location	
Submitted By		Date	

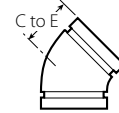
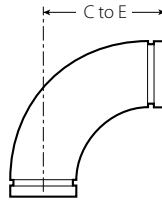
Spec Section		Paragraph	
Approved		Date	

4.0 DIMENSIONS

Elbows

No. 890C & No. 890HC Long Radius 90° Elbow (Cast)

No. 811C & No. 811HC 45° Elbow (Cast)



Size		No. 890C & No. 890HC Long Radius 90° Elbow			No. 811C & No. 811HC 45° Elbow		
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight		C to E inches mm	Approx. Weight	
			No. 890C Sch. 40 lb kg	No. 890HC Sch. 80 lb kg		No. 811C Sch. 40 lb kg	No. 811HC Sch. 80 lb kg
2 DN50	2.375 60.3	4.38 111	4.0 1.8	4.4 2.0	2.75 70	2.7 1.3	3.1 1.4
2½	2.875 73.0	5.13 130	6.2 2.8	6.6 3.0	3.00 76	4.0 1.8	4.4 2.0
3 DN80	3.500 88.9	5.88 149	8.6 3.9	10.1 4.6	3.38 86	5.7 2.6	6.8 3.1
4 DN100	4.500 114.3	7.50 191	16.1 7.3	18.5 8.4	4.00 102	10.1 4.6	11.2 5.4
6 DN150	6.625 168.3	10.75 273	37.7 17.1	47.0 21.3	5.50 140	22.3 10.2	28.0 12.7
8 DN200	8.625 219.1	14.25 362	72.1 32.7	92.8 42.1	7.25 184	42.8 19.4	55.3 25.1

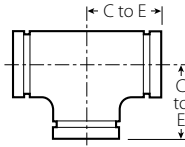
NOTES

- The cast fittings listed above (No. 890C, No. 890HC, No. 811C and No. 811HC) feature different C to E dimensions than the fabricated fittings (No. 890, No. 890H, No. 811 and No. 811H) previously shown in this submittal. Please contact Victaulic for fabricated fitting information.
- Dimensions shown have been rounded up to nearest 1/32 mm.

4.1 DIMENSIONS

Tee

No. 820 & No. 820H Tee (Fabricated)



Size		No. 820 & No. 820H Tee		
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight	
			No. 820 Sch. 40 lb kg	No. 820H Sch. 80 lb kg
2 DN50	2.375 60.3	5.13 130	5.6 2.5	7.9 3.6
2½	2.875 73.0	5.63 143	9.6 4.4	13.1 5.9
3 DN80	3.500 88.9	6.00 153	12.2 5.5	16.9 7.7
4 DN100	4.500 114.3	6.88 175	20.1 9.1	28.6 13.0
6 DN150	6.625 168.3	8.38 213	46.1 20.9	71.2 32.3
8 DN200	8.625 219.1	10.00 254	77.9 35.3	121.0 54.9

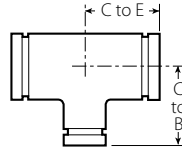
NOTES

- The fittings listed above (No. 820 and No. 820H) are made using wrought carbon steel fittings and welded pipe nipples.
- Dimensions shown have been rounded up to nearest 1/32 mm.

4.2 DIMENSIONS

Reducing Tee

No. 825 & No. 825H Grooved Branch (Fabricated)



Size				No. 825 & 825H Reducing Tee									
Nominal inches DN				Actual Outside Diameter inches mm		C to E inches mm		C to B inches mm		Approx. Weight			
										No. 825 Sch. 40 lb kg	No. 825H Sch. 80 lb kg		
2½	x	2½	x	2	2.875	x	2.875	x	2.375	5.63	5.38	8.7	11.9
				DN50	73.0		73.0		60.3	143	137	4.0	5.4
3	x	3	x	2	3.500	x	3.500	x	2.375	6.00	5.63	11.1	15.4
				DN80	88.9		88.9		60.3	153	143	5.0	7.0
				2½					2.875	6.00	5.88	11.8	16.4
									73.0	153	149	5.3	7.4
4	x	4	x	2	4.500	x	4.500	x	2.375	6.88	6.13	16.9	24.1
				DN100	114.3		114.3		60.3	175	156	7.7	10.9
				2½					2.875	6.88	6.38	17.6	25.0
									73.0	175	162	8.0	11.4
				3					3.500	6.88	6.51	18.2	25.9
				DN80					88.9	175	165	8.3	11.7
6	x	6	x	2½	6.625	x	6.625	x	2.875	8.38	7.38	39.7	61.2
				DN150	168.3		168.3		73.0	213	187	18.0	27.8
				3					3.500	8.38	7.51	40.4	62.3
				DN80					88.9	213	191	18.3	28.2
				4					4.500	8.38	7.87	41.7	64.3
				DN100					114.3	213	200	18.9	29.2
8	x	8	x	4	8.625	x	8.625	x	4.500	10.00	8.87	69.9	108.6
				DN200	219.1		219.1		114.3	254	225	31.7	49.3
				6					6.625	10.00	9.37	75.1	116.6
				DN150					168.3	254	238	34.1	52.9

NOTES

- The fittings listed above (No. 825 and No. 825H) are made using wrought carbon steel fittings and welded pipe nipples
- Dimensions shown have been rounded up to nearest 1/32 mm.

4.3 DIMENSIONS

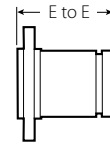
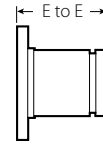
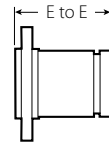
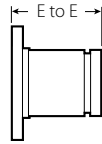
Flange Adapter Nipples

No. 845FC ANSI Class 150 Flange Adapter Nipple (Cast) (Flat Face, for use with Sch. 40 Pipe)

No. 845RC ANSI Class 150 Flange Adapter Nipple (Cast) (Raised Face, for use with Sch. 40 Pipe)

No. 846FC ANSI Class 300 Flange Adapter Nipple (Cast) (Flat Face, for use with Sch. 80 Pipe)

No. 846RC ANSI Class 300 Flange Adapter Nipple (Cast) (Raised Face, for use with Sch. 80 Pipe)



Flat Face

Raised Face

Flat Face

Raised Face

Size		No. 845FC ANSI Class 150 Flange Adapter Nipple		No. 845RC ANSI Class 150 Flange Adapter Nipple		No. 846FC ANSI Class 300 Flange Adapter Nipple		No. 846RC ANSI Class 300 Flange Adapter Nipple	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight lb kg	E to E inches mm	Approx. Weight lb kg	E to E inches mm	Approx. Weight lb kg	E to E inches mm	Approx. Weight lb kg
2	2.375	4.00	6.6	4.00	6.8	4.00	8.2	4.00	8.4
DN50	60.3	102	3.0	102	3.1	102	3.7	102	3.8
2½	2.875	4.00	9.7	4.00	9.5	4.00	11.7	4.00	11.9
	73.0	102	4.4	102	4.3	102	5.3	102	5.4
3	3.500	4.00	11.7	4.00	12.1	4.00	15.9	4.00	16.1
DN80	88.9	102	5.3	102	5.5	102	7.2	102	7.3
4	4.500	6.00	18.7	6.00	19.2	6.00	28.7	6.00	28.7
DN100	114.3	152	8.5	152	8.7	152	13.0	152	13.0
6	6.625	6.00	30.9	6.00	28.0	6.00	49.6	6.00	47.8
DN150	168.3	152	14.0	152	12.7	152	22.5	152	21.7
8	8.625	6.00	42.3	6.00	48.5	6.00	73.9	6.00	72.3
DN200	219.1	152	19.2	152	22.0	152	33.5	152	32.8

NOTES

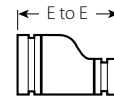
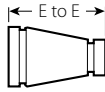
- The cast fittings listed above (No. 845FC, No. 845RC, No. 846FC, and No. 846RC) feature different C to E dimensions than the fabricated fittings (No. 845F, No. 845R, No. 846F, and No. 846R) previously shown in this submittal. Please contact Victaulic for fabricated fitting information.
- Dimensions shown have been rounded up to nearest 1/32 mm.

4.4 DIMENSIONS

Reducers

No. 850 & No. 850H Concentric Reducer (Fabricated)

No. 851 & No. 851H Eccentric Reducer (Fabricated)



Size		No. 850 & 850H Concentric Reducer			No. 851 & 851H Eccentric Reducer			
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight		E to E inches mm	Approx. Weight		
			No. 850 Sch. 40 lb kg	No. 850H Sch. 80 lb kg		No. 851 Sch. 40 lb kg	No. 851H Sch. 80 lb kg	
2½ x 2 65 DN50	2.875 x 2.375 73.0 x 60.3	8.75 222	3.7 1.7	5.0 2.3	8.75 222	3.7 1.7	5.0 2.3	
	3 x 2 DN80 2½		3.500 x 2.375 88.9 x 60.3	8.75 222		4.5 2.0	6.2 2.8	8.75 222
4 x 2 DN100 2½		2.875 x 2.375 73.0 x 60.3	8.75 222	5.1 2.3	7.1 3.2	8.75 222	5.1 2.3	7.1 3.2
	3 DN80	4.500 x 2.375 114.3 x 60.3	9.38 283	6.4 2.9	9.1 4.1	9.38 283	6.4 2.9	9.1 4.1
		2.875 x 2.375 73.0 x 60.3	9.38 283	6.9 3.1	9.9 4.5	9.38 283	6.9 3.1	9.9 4.5
6 x 2½ DN150	3.500 x 2.375 88.9 x 60.3	9.38 283	7.4 3.4	10.6 4.8	9.38 283	7.4 3.4	10.6 4.8	
	3 DN80	6.625 x 2.875 168.3 x 73.0	10.88 276	12.2 5.5	18.8 8.5	10.88 276	12.2 5.5	18.8 8.5
		4 DN100	3.500 x 2.875 88.9 x 73.0	10.88 276	12.9 5.9	19.9 9.0	10.88 276	12.9 5.9
8 x 4 200 DN100	4.500 x 2.875 114.3 x 73.0	11.00 279	14.2 6.5	21.9 10.0	11.00 279	14.2 6.5	21.9 10.0	
	6 DN150	8.625 x 4.500 219.1 x 114.3	11.75 298	20.4 9.3	31.7 14.4	11.75 298	20.4 9.3	31.7 14.4
8 x 6 200 DN150	6.625 x 4.500 168.3 x 114.3	11.75 298	23.8 10.8	36.9 16.8	11.75 298	23.8 10.8	36.9 16.8	

NOTES

- The fittings listed above (No. 850, No. 850H, No. 861 and No. 851H) are made using wrought carbon steel fittings and welded pipe nipples.
- Dimensions shown have been rounded up to nearest 1/32 mm.

4.5 DIMENSIONS

Cap

No. 860 & No. 860H Cap (Fabricated)



Size		No. 860 & 860H Cap			
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight		
			No. 860 Sch. 40 lb kg	No. 860H Sch. 80 lb kg	
2 DN50	2.375 60.3	4.13 105	1.6 0.7	2.3 1.0	
2½	2.875 73.0	4.13 105	2.3 1.0	3.1 1.4	
3 DN80	3.500 88.9	4.63 117	3.4 1.5	4.7 2.1	
4 DN100	4.500 114.3	5.25 133	5.3 2.4	7.5 3.4	
6 DN150	6.625 168.3	6.25 159	11.2 5.1	17.4 7.9	
8 DN200	8.625 219.1	7.00 178	18.9 8.6	29.4 13.3	

NOTES

- The fittings listed above (No. 860 and No. 860H) are made using wrought carbon steel fittings and welded pipe nipples.
- Dimensions shown have been rounded up to nearest 1/8"/3 mm.

5.0 NOTIFICATIONS

Not applicable - contact Victaulic with any questions.

6.0 REFERENCE MATERIALS

- [24.01: Victaulic Pipe Preparation Tools](#)
- [25.12: Victaulic OGS-200 Roll Groove Specifications](#)
- [100.02: Victaulic Rigid Coupling Style 870](#)
- [I-100: Victaulic Field Installation Handbook](#)
- [IT-870: Installation Instructions Style 870 Rigid Coupling](#)

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.

Warranty

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

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