

Victaulic Base Support Elbows

Nos. 100F, R100F, 100G and R100G



No. R100F



No. 100G

1.0 PRODUCT DESCRIPTION

Available Sizes

- 3 – 12”/DN80 – DN300

Pipe Material

- Carbon steel

Maximum Working Pressure

- Pressure ratings for Victaulic groove x flange base support elbows are equivalent to Class 150 flanges
- Pressure ratings for Victaulic groove x groove base support elbows are equivalent to the ratings of the Victaulic Style 177N flexible coupling (refer to [publication 06.24](#) for more information)

Function

- Provides base support
- Provides tapped low point drain when used as base support
- Provides tapped high point air release if installed with outlet at high point in system
- Flanged ends are ANSI Class 150 Flat Face. Contact Victaulic for Raised Face option.

2.0 CERTIFICATION/LISTINGS

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

3.0 SPECIFICATIONS – MATERIAL

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

Fitting Coating: Orange enamel.

Pipe Plug: Zinc plated carbon steel with thread sealant.

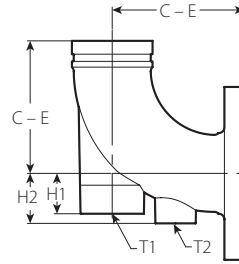
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

4.0 DIMENSIONS

No. 100F Base Support Elbow (Groove x Flange) (Flat Face)

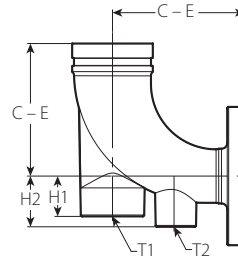


Size		Dimensions					Weight
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	H1 inches mm	H2 inches mm	T1	T2 ¹	Approximate (Each) lb kg
3 DN80	3.500 88.9	5.75 146	1.75 44	2.25 57	1 ½ NPSC	¾ NPT	18.3 8.3
4 DN100	4.500 114.3	7.25 184	1.75 44	2.75 70	1 ½ NPSC	¾ NPT	26.6 12.1
6 DN150	6.625 168.3	10.25 260	1.50 38	3.75 95	1 ½ NPSC	¾ NPT	43.5 19.7
8 DN200	8.625 219.1	13.50 343	1.38 35	4.88 124	1 ½ NPSC	¾ NPT	73.5 33.3
10 DN250	10.750 273.0	16.50 419	1.25 32	5.88 149	1 ½ NPSC	¾ NPT	127.2 57.7
12 DN300	12.750 323.9	19.50 495	1.00 25	6.88 175	1 ½ NPSC	¾ NPT	197.1 89.4

¹ Each base support elbow comes with a factory-installed square head pipe plug.

4.1 DIMENSIONS

No. R100F Reducing Base Support Elbow (Groove x Flange) (Flat Face)

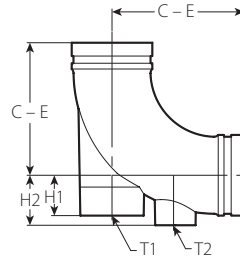


Size			Dimensions							Weight	
Nominal inches DN		Actual Outside Diameter inches mm	C to E inches mm	H1 inches mm	H2 inches mm	T1	T2 ¹	Approximate (Each) lb kg			
4 DN100	x	3 DN80	4.500 114.3	x	3.500 88.9	7.25 184	1.75 44	2.75 70	1 ½ NPSC	¾ NPT	25.4 11.5
5	x	4 DN100	5.563 141.3	x	4.500 114.3	8.75 222	1.75 44	3.25 83	1 ½ NPSC	¾ NPT	34.0 15.4
6 DN150	x	3 DN80	6.625 168.3	x	3.500 88.9	10.25 260	1.25 32	3.75 95	1 ½ NPSC	¾ NPT	31.6 14.3
		4 DN100			4.500 114.3	10.25 260	1.50 38	3.75 95	1 ½ NPSC	¾ NPT	35.1 15.9
		5			5.563 141.3	10.25 260	1.50 38	3.75 95	1 ½ NPSC	¾ NPT	37.5 17.0
8 DN200	x	4 DN100	8.625 219.1	x	4.500 114.3	13.50 343	0.75 19	4.88 124	1 ½ NPSC	¾ NPT	52.6 23.8
		5			5.563 141.3	13.50 343	1.00 25	4.88 124	1 ½ NPSC	¾ NPT	55.7 25.2
		6 DN150			6.625 168.3	13.50 343	1.38 35	4.88 124	1 ½ NPSC	¾ NPT	60.2 27.3
10 DN250	x	6 DN150	10.750 273.0	x	6.625 168.3	16.50 419	0.50 13	5.88 149	1 ½ NPSC	¾ NPT	92.6 42.0
		8 DN200			8.625 219.1	16.50 419	1.25 32	5.88 149	1 ½ NPSC	¾ NPT	113.3 51.4
12 DN300	x	8 DN200	12.750 323.9	x	8.625 219.1	19.50 495	0.25 6	6.88 175	1 ½ NPSC	¾ NPT	152.5 69.1
		10 DN250			10.750 273.0	19.50 495	0.75 19	6.88 175	1 ½ NPSC	¾ NPT	173.8 78.8

¹ Each base support elbow comes with a factory-installed square head pipe plug.

4.2 DIMENSIONS

No. 100G Base Support Elbow (Groove x Groove)

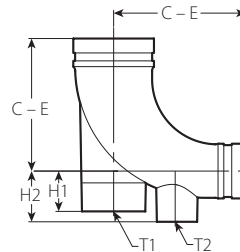


Size		Dimensions					Weight
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	H1 inches mm	H2 inches mm	T1	T2 ¹	Approximate (Each) lb kg
3 DN80	3.500 88.9	5.75 146	1.75 44	2.25 57	1 ½ NPSC	¾ NPT	8.4 3.8
4 DN100	4.500 114.3	7.25 184	1.75 44	2.75 70	1 ½ NPSC	¾ NPT	12.8 5.8
6 DN150	6.625 168.3	10.25 260	1.50 38	3.75 95	1 ½ NPSC	¾ NPT	28.4 12.9
8 DN200	8.625 219.1	13.50 343	1.38 35	4.88 124	1 ½ NPSC	¾ NPT	49.5 22.4
10 DN250	10.750 273.0	16.50 419	1.25 32	5.88 149	1 ½ NPSC	¾ NPT	90.8 41.2
12 DN300	12.750 323.9	19.50 495	1.00 25	6.88 175	1 ½ NPSC	¾ NPT	148.1 67.2

¹ Each base support elbow comes with a factory-installed square head pipe plug.

4.3 DIMENSIONS

No. R100G Reducing Base Support Elbow (Groove x Groove)



Size		Dimensions					Weight
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	H1 inches mm	H2 inches mm	T1	T2 ¹	Approximate (Each) lb kg
4 DN100	4.500 114.3	7.25 184	1.75 44	2.75 70	1 ½ NPSC	¾ NPT	13.8 6.3
3 DN80	3.500 88.9						

¹ Each base support elbow comes with a factory-installed square head pipe plug.

5.0 PERFORMANCE

Flow Data – Frictional Resistance

Base Support Elbows

The chart expresses the frictional resistance of Victaulic base support elbows as equivalent feet of straight pipe.

Size		Base Support Elbows feet meters
Nominal inches DN	Actual Outside Diameter inches mm	
3 DN80	3.500 88.9	3.8 1.2
4 DN100	4.500 114.3	5.0 1.5
6 DN150	6.625 168.3	7.5 2.3
8 DN200	8.625 219.1	9.8 3.0
10 DN250	10.750 273.0	12.0 3.7
12 DN300	12.750 323.9	14.5 4.4


Reducing Base Support Elbows







The chart expresses the frictional resistance of Victaulic reducing base support elbows as equivalent feet of straight pipe.

Size			Reducing Base Support Elbows ² feet meters		
Nominal inches DN		Actual Outside Diameter inches mm			
4 DN100	x	3 DN80	4.500 114.3	3.500 88.9	5.3 1.6
5	x	4 DN100	5.563 141.3	4.500 114.3	6.4 2.0
6 DN150	x	3 DN80	6.625 168.3	3.500 88.9	14.9 4.5
		4 DN100		4.500 114.3	9.1 2.8
		5		5.563 141.3	7.9 2.4
8 DN200	x	4 DN100	8.625 219.1	4.500 114.3	19.4 5.9
		5		5.563 141.3	12.8 3.9
		6 DN150		6.625 168.3	10.9 3.3
10 DN250	x	6 DN150	10.750 273.0	6.625 168.3	15.6 4.8
		8 DN200		8.625 219.1	13.2 4.0
12 DN300	x	8 DN200	12.750 323.9	8.625 219.1	16.4 5.0
		10 DN250		10.750 273.0	15.4 4.7

² The equivalent length presented here is for the larger end size pipe diameter.

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, and foot protection.

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

7.0 REFERENCE MATERIALS

- [06.23: Victaulic QuickVic™ Rigid Coupling Style 107N](#)
- [06.24: Victaulic QuickVic™ Flexible Coupling Style 177N](#)
- [07.01: Victaulic Grooved End Fittings](#)
- [102.10: Victaulic Discharge Vibration Isolation Pump Drop Series 380/380G](#)
- [102.11: Victaulic Suction Vibration Isolation Pump Drop Series 381/381G](#)
- [102.12: Victaulic Strainer Vibration Isolation Pump Drop Series 382/382G](#)
- [102.13: Victaulic Discharge CBV Vibration Isolation Pump Drop Series 383/383G](#)
- [102.87: Victaulic Dual Pump Skids Series 387/388](#)

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.

Intellectual Property Rights

No statement contained herein concerning a possible or suggested use of any material, product, service, or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Victaulic or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries.

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.

Trademarks

Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.