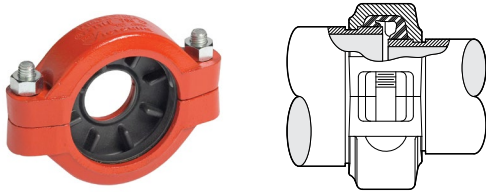


Victaulic® Reducing Coupling

Style 750



1.0 PRODUCT DESCRIPTION

Available Sizes:

- 2 x 1" through 10 x 8"/DN50 x DN25 through DN250 x DN200

Pipe Material:

- Carbon steel

Maximum Working Pressure:

- Up to 500 psi/3447 kPa
- Working pressure dependent on material, wall thickness and size of pipe

Application:

- Joins OGS roll grooved and cut grooved pipe, as well as OGS grooved fittings, valves and accessories
- Permits direct reduction on piping run
- Optional steel washer prevents telescoping of the smaller pipe inside the larger pipe during vertical system assembly

Pipe Preparation:

- Cut or roll grooved in accordance with [publication 25.01](#): Victaulic Standard Groove Specifications.

2.0 CERTIFICATION/LISTINGS



NOTES

- Download [publication 10.01](#) for Fire Protection Certifications/Listings Reference Guide.

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	

3.0 SPECIFICATIONS – MATERIAL

Housing: Ductile iron conforming to ASTM A536, Grade 65-45-12. Ductile iron conforming to ASTM A395, Grade 65-45-15, is available upon special request.

Housing Coating: (specify choice)

Standard: Orange enamel.

Optional: Hot dipped galvanized conforming to ASTM A153.

Optional: Contact Victaulic with your requirements.

Gasket: (specify choice¹)

Grade “E” EPDM

EPDM (Green stripe color code). Temperature range –30°F to +230°F/–34°C to +110°C. May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES OR STEAM SERVICES.**

Grade “T” Nitrile

Nitrile (Orange stripe color code). Temperature range –20°F to +180°F/–29°C to +82°C. May be specified for petroleum products, hydrocarbons, air with oil vapors, vegetable and mineral oils within the specified temperature range; not compatible for hot dry air over +140°F/+60°C and water over +150°F/+66°C. **NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.**

Others

For alternate gasket selection, reference [publication 05.01](#): Victaulic Seal Selection Guide.

¹ Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest [Victaulic Seal Selection Guide](#) for specific gasket service guidelines and for a listing of services which are not compatible.

Bolts/Nuts (specify choice²):

Standard: Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (metric). Carbon steel hex nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial – heavy hex nuts) and ASTM A563M Class 9 (metric – hex nuts). Track bolts and hex nuts are zinc electroplated per ASTM B633 ZN/FE5, finish Type III (imperial) or Type II (metric).

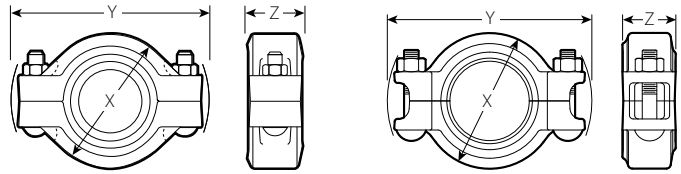
Optional (imperial): Stainless steel oval neck track bolts meeting the mechanical property requirements of ASTM F593, Group 2 (316 stainless steel), condition CW. Stainless steel heavy nuts meeting the mechanical property requirements of ASTM F594, Group 2 (316 stainless steel), condition CW, with galling reducing coating.

Assembly Washer (optional): Galvanized carbon steel.

² Optional bolts/nuts are available in imperial size only

4.0 DIMENSIONS

Style 750



Size		Pipe End Separation ²	Deflect. From CL ³		Bolt/Nut		Dimensions			Weight
Nominal inches DN		Allowable inches mm	Per Cplg. Degrees	Pipe In./Ft. mm/m	Qty.	Size inches mm	X inches mm	Y inches mm	Z inches mm	Approximate (Each) lb kg
2 DN50	x 1 DN25	0 - 0.07 0 - 1.8	0° - 57'	0.20 17	2	3/8 x 2	3.38 85	5.28 134	1.88 48	2.7 1.2
	1 1/2 DN40	0 - 0.07 0 - 1.8	0° - 57'	0.20 17	2	3/8 x 2	3.38 85	5.28 134	1.88 48	2.0 1.0
2 1/2	x 2 DN50	0 - 0.07 0 - 1.8	0° - 47'	0.16 14	2	3/8 x 2	4.00 102	5.93 151	1.88 48	3.1 1.4
DN65	x 2 DN50	0 - 0.07 0 - 1.8	0° - 47'	0.16 14	2	1/2 x 2 3/4	4.38 111	6.63 168	1.88 48	4.6 2.1
3 DN80	x 2 DN50	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2	1/2 x 2 3/4	4.75 121	7.13 181	1.88 48	4.9 2.2
	2 1/2	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2	1/2 x 2 3/4	4.75 121	7.13 181	1.88 48	4.3 2.0
	DN65	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2	1/2 x 2 3/4	4.75 121	7.13 181	1.88 48	4.2 1.9
4 DN100	x 2 DN50	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2	5/8 x 3 1/4	6.25 159	8.90 226	2.25 57	8.1 3.7
	2 1/2	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2	5/8 x 3 1/4	6.25 159	8.90 226	2.25 57	8.6 3.9
	DN65	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2	5/8 x 3 1/4	6.25 159	8.90 226	2.25 57	6.9 3.1
	3 DN80	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2	5/8 x 3 1/4	6.00 152	8.90 226	2.25 57	6.7 3.0
5	x 4 DN100	0 - 0.13 0 - 3.2	1° - 3'	0.22 19	2	3/4 x 4 1/4	7.18 182	10.70 272	2.13 54	11.2 5.1
165.1	x 4 DN100	0 - 0.13 0 - 3.2	0° - 55'	0.19 16	2	3/4 x 4 1/4	8.63 219	11.90 302	2.25 57	15.2 6.9
6 DN150	x 4 DN100	0 - 0.13 0 - 3.2	0° - 52'	0.18 15	2	3/4 x 4 1/4	8.63 219	11.90 302	2.25 57	16.7 7.6
	5	0 - 0.13 0 - 3.2	0° - 52'	0.18 15	2	3/4 x 4 1/4	8.31 211	11.90 302	2.25 57	12.9 5.9
8 DN200	x 165.1	0 - 0.13 0 - 3.2	0° - 38'	0.13 11	2	7/8 x 5	10.75 273	14.88 378	2.50 64	23.2 10.5
	6 DN150	0 - 0.13 0 - 3.2	0° - 38'	0.13 11	2	7/8 x 5	10.81 275	14.88 378	2.50 64	22.4 10.2
10 DN250	x 8 DN200	0 - 0.13 0 - 3.2	0° - 25'	0.90 8	2	1 x 5 1/2	13.12 333	17.26 438	2.62 67	31.4 14.2

³ Allowable Pipe End Separation and Deflection figures show the maximum nominal range of movement available at each joint for standard roll grooved pipe. Figures for standard cut grooved pipe may be doubled. These figures are maximums; for design and installation purposes, these figures should be reduced by: 50% for 3/4 - 3 1/2"/DN20 - DN90; and 25% for 4"/DN100 and larger.

NOTE

- Metric thread size bolts are available (color-coded gold) for all coupling sizes upon request. Contact Victaulic for details.

5.0 PERFORMANCE

Style 750

Size		Maximum Working Pressure ⁴	Maximum End Load ⁴
Nominal inches	DN		
2 DN50	x 1 DN25	350	500
		2413	2,225
	1 ½ DN40	350	1000
		2413	4,450
2 ½	x 2 DN50	500	2215
		3447	9,850
DN65	x 2 DN50	350	1550
		2413	6,900
3 DN80	x 2 DN50	350	1550
		2413	6,900
	2 ½	500	3250
		3447	14,460
DN65	350	2475	
	2413	11,010	
4 DN100	x 2 DN50	350	1550
		2413	6,900
	2 ½	350	2275
		2413	10,125
	DN65	350	2475
2413		11,014	
3 DN80	500	4810	
	3447	21,400	
5	x 4 DN100	350	5565
		2413	24,765
6 DN150	x 4 DN100	350	5565
		2413	24,765
	5	350	8500
		2413	37,825
8 DN200	x 165.1	350	11610
		2413	51,645
	6 DN150	350	12060
		2413	53,645
10 DN250	x 8 DN200	350	20450
		2413	90,970

⁴ Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe and material. Maximum working pressure rating based on larger pipe size. Maximum end load rating based on smaller pipe size.

NOTES

- WARNING: FOR ONE-TIME FIELD USE ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.
- For joint pressure ratings on additional carbon steel wall thicknesses, see [publication 06.15](#).

5.1 PERFORMANCE

Flow Data - Head Loss

- Equivalent lengths of standard weight steel pipe are shown in the tables. All data is based on water flowing at +60°F/+16°C.








Flow Reducing

Size		Equivalent Pipe Length	
Nominal		Small Diameter	
inches	DN	ft	m
2 DN50	x 1 DN25	5.9	
		1.8	
	1 ½ DN40	2.0	0.6
2 ½	x 2 DN50	1.9	
		0.6	
DN65	x 2 DN50	1.9	
		0.6	
3 DN80	x 2 DN50	5.5	
		1.7	
		3.8	1.2
	2 ½	3.8	1.2
	DN65	3.8	1.2
4 DN100	x 2 DN50	6.0	
		1.8	
		6.0	
		1.8	
	2 ½	6.0	1.8
	DN65	6.0	1.8
	3 DN80	6.0	1.8
5	x 4 DN100	3.0	
		0.9	
165.1	x 4 DN100	6.0	
		1.8	
6 DN150	x 4 DN100	6.0	
		1.8	
	5	4.5	1.4
8 DN200	x 165.1	7.3	
		2.2	
	6 DN150	7.3	2.2
10 DN250	x 8 DN200	8.7	
		2.7	

Flow Expanding

Size		Equivalent Pipe Length	
Nominal		Small Diameter	
inches	DN	ft	m
1 DN25	x 2 DN50	2.7	
		0.8	
1 ½ DN40	x 2 DN50	1.9	0.6
2 DN50	x 2 ½	1.0	
		0.3	
		1.0	
		0.3	
	3 DN80	3.5	1.1
	4 DN100	3.0	0.9
2 ½	x 3 DN80	2.5	
		0.8	
	4 DN100	3.0	0.9
DN65	x 3 DN80	2.5	
		0.8	
	4 DN100	3.0	0.9
3 DN80	x 4 DN100	2.5	0.8
4 DN100	x 5	3.3	
		1.0	
		4.6	1.4
	165.1	4.6	1.4
	6 DN150	4.6	1.4
5	x 6 DN150	2.3	
		0.7	
165.1	x 8 DN200	5.4	1.7
6 DN150	x 8 DN200	6.0	
		1.8	
8 DN200	x 10 DN250	6.3	
		1.9	

6.0 NOTIFICATIONS

 WARNING					
					
<ul style="list-style-type: none">• 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.• Only No. 61 bull plugs shall be used with Style 750 reducing couplings in systems where a vacuum may develop. <p>Failure to follow these instructions could result in death or serious personal injury and property damage.</p>					

7.0 REFERENCE MATERIALS

- [05.01: Victaulic® Seal Selection Guide](#)
- [10.01: Victaulic® Products for Fire Protection Piping Systems - Regulatory Approval Reference Guide](#)
- [25.01: Victaulic® Original Groove System \(OGS\) Groove Specifications](#)
- [26.01: Victaulic® Design Data](#)
- [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 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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