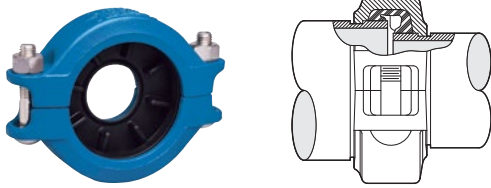


Victaulic® Reducing Coupling for Potable Water Applications

Style 875



06.31



1.0 PRODUCT DESCRIPTION

Available Sizes

- 2 x 1 ½ through 10 x 8/DN50 x DN40 through DN250 x DN200

Pipe Material

- Schedules 10S and 40S stainless steel pipe
- Schedules 10 and 40 galvanized carbon steel pipe

Maximum Working Pressure

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

Operating Temperature

- +0°F to +180°F/-18°C to +82°C

Function

- Intended for use in potable water systems
- Joins Victaulic Original Groove System (OGS) grooved end pipe, as well as OGS grooved end fittings, valves and accessories
- Permits direct reduction on piping run

NOTE

- For non-potable water systems, refer to [publication 06.08](#): Victaulic Reducing Coupling Style 750.

Pipe Preparation

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

2.0 CERTIFICATION/LISTINGS



The Victaulic Grade P gasket supplied with the Style 875 Reducing Coupling is UL Classified in accordance with ANSI/NSF 61 and ANSI/NSF 372 as noted in section 3.0 Specifications – Material.

NOTE

- See [publication 02.06](#): Victaulic Potable Water Approvals ANSI/NSF for potable water approvals if applicable.

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: Blue enamel.

Optional: Hot dipped galvanized conforming to ASTM A153.

Gasket¹: Grade “P” Fluoroelastomer Blend

P (Double blue stripe color code). Temperature range +0°F to +180°F/-18°C to +82°C. Specifically formulated for compatibility with potable water systems. Optimized for improved resistance to chlorine, chloramine and other typical potable water disinfectants. 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.

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.

NOTE

- Victaulic reserves the right to substitute equivalent and/or higher grade elastomer products.

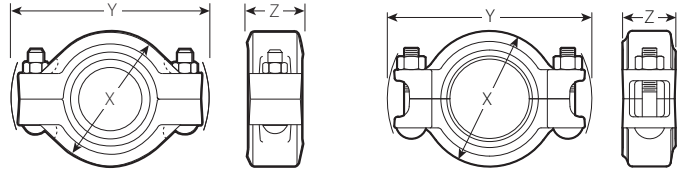
Bolts/Nuts (specify choice):

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.

4.0 DIMENSIONS

Style 875 Reducing Coupling for Potable Water Applications



Size		Pipe End Separation ²	Deflect. From CL ²		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 1/2 DN40	0 - 0.07 0 - 1.8	0° - 57'	0.20 17	2	3/8 x 2	3.50 89	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	4.13 105	5.93 151	1.88 48	3.1 1.4
3 DN80	x 2 DN50	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2	1/2 x 2 3/4	4.88 124	7.13 181	2.00 51	4.9 2.2
	x 2 1/2 DN50	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2	1/2 x 2 3/4	4.88 124	7.13 181	2.00 51	4.3 2.0
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
	x 2 1/2 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	8.6 3.9
	x 3 DN80	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	6.7 3.0
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	2.38 60	16.7 7.6
8 DN200	x 6 DN150	0 - 0.13 0 - 3.2	0° - 38'	0.13 11	2	7/8 x 5	10.88 276	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	13.13 334	17.26 438	2.75 70	31.4 14.2

² 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 1 1/2 - 3"/DN40 - DN80; and 25% for 4"/DN100 and larger.

5.0 PERFORMANCE

Style 875 Reducing Coupling for Potable Water Applications

Schedules 10S and 40S Stainless Steel Pipe

Size			Schedule 10S		Schedule 40S	
Nominal inches DN			Maximum Working Pressure ³	Maximum Permissible End Load ³	Maximum Working Pressure ³	Maximum Permissible End Load ³
			psi kPa	lb N	psi kPa	lb N
2 DN50	x	1 ½ DN40	300 2068	850 3781	300 2068	850 3781
		2 DN50	300 2068	1330 5916	300 2068	1330 5916
3 DN80	x	2 DN50	300 2068	1330 5916	300 2068	1330 5916
		2 ½	300 2068	1950 8674	300 2068	1950 8674
			3 DN80	300 2068	2890 12855	300 2068
4 DN100	x	2 DN50	300 2068	1330 5916	300 2068	1330 5916
		2 ½	300 2068	1950 8674	300 2068	1950 8674
			3 DN80	300 2068	2890 12855	300 2068
		6 DN150	x	4 DN100	300 2068	4770 21218
8 DN200	x	6 DN150	150 1034	5170 22997	300 2068	10340 45995
			10 DN250	x	8 DN200	100 689

³ Working Pressure and End Load are total, from all internal and external loads, based on ANSI Types 304/304L and 316/316L stainless steel pipe, grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe. Maximum working pressure rating based on larger pipe size. Maximum end load rating based on smaller pipe size.

NOTE

- WARNING: FOR ONE-TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

Schedules 10 and 40 Galvanized Carbon Steel Pipe

Size			Schedule 10S		Schedule 40S	
Nominal inches DN			Maximum Working Pressure ⁴	Maximum Permissible End Load ⁴	Maximum Working Pressure ⁴	Maximum Permissible End Load ⁴
			psi kPa	lb N	psi kPa	lb N
2 DN50	x	1 ½ DN40	350 2413	1000 4448	350 2413	1000 4448
		2 DN50	350 2413	1550 6895	500 3447	2215 9853
3 DN80	x	2 DN50	350 2413	1550 6895	350 2413	1550 6895
		2 ½	350 2413	2275 10120	500 3447	3250 14457
			3 DN80	350 2413	3365 14968	500 3447
4 DN100	x	2 DN50	350 2413	1550 6895	350 2413	1550 6895
		2 ½	350 2413	2275 10120	350 2413	2275 10120
			3 DN80	350 2413	3365 14968	500 3447
		6 DN150	x	4 DN100	350 2413	5565 24754
8 DN200	x	6 DN150	350 2413	12060 53646	350 2413	12060 53646
			10 DN250	x	8 DN200	350 2413

⁴ Working Pressure and End Load are total, from all internal and external loads, based on ANSI B36.10 sized carbon steel pipe, grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe. Maximum working pressure rating based on larger pipe size. Maximum end load rating based on smaller pipe size.

NOTE

- WARNING: FOR ONE-TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.

5.1 PERFORMANCE

Style 875 Reducing Coupling for Potable Water Applications

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 inches DN	x	Small Diameter
		ft m
2 DN50	x	1 ½ DN40
		2.0 0.6
2 ½	x	2 DN50
		1.9 0.6
3 DN80	x	2 DN50
		5.5 1.7
		2 ½
		3.8 1.2
4 DN100	x	2 DN50
		6.0 1.8
		2 ½
		6.0 1.8
		3 DN80
		6.0 1.8
6 DN150	x	4 DN100
		6.0 1.8
8 DN200	x	6 DN150
		7.3 2.2
10 DN250	x	8 DN200
		8.7 2.7

Flow Expanding

Size		Equivalent Pipe Length
Nominal inches DN	x	Small Diameter
		ft m
1 ½ DN40	x	2 DN50
		1.9 0.6
2 DN50	x	2 ½
		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
3 DN80	x	4 DN100
		2.5 0.8
4 DN100	x	6 DN150
		4.6 1.4
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 875 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

- [02.06: Victaulic Potable Water Approvals ANSI/NSF](#)
- [05.01: Victaulic Seal Selection 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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