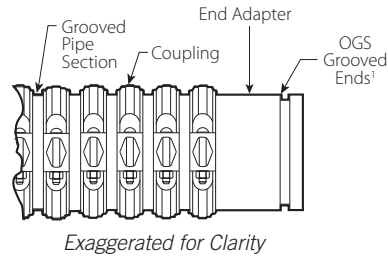


# Victaulic Expansion Joint for OGS Potable Water Piping Systems

## Style 155P



09.25



### 1.0 PRODUCT DESCRIPTION

#### Available Sizes

- 2 – 12"/DN50 – DN300

#### Pipe Material

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

#### NOTE

- The Style 155P is manufactured with Type 316L stainless steel pipe (Sch. 40S) only; reference section 3: Specifications – Material for more information.

#### Maximum Working Pressure

- Equal to either the pressure rating of the couplings used in the expansion joint assembly or the couplings used to connect the grooved ends to the system piping, whichever is lower

#### Function

- Intended for use in potable water systems
- Allows for linear/axial expansion and compression within a piping system
- Provides increased linear movement capabilities when compared to standard flexible grooved joints

<sup>1</sup> For different end connections, contact Victaulic.

#### NOTE

- For non-potable water systems, refer to [publication 09.05](#): Victaulic Expansion Joint for OGS Piping Systems Style 155.

### 2.0 CERTIFICATION/LISTINGS



The Victaulic Grade P gasket supplied with the Style 155P Expansion Joint 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

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

**Grooved Pipe Sections and End Adapters:** Schedule 40S stainless steel pipe conforming to ASTM A312/A312M Type 316L.

**Housing Coating:** Blue enamel.

**Gasket<sup>2</sup>: 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.

<sup>2</sup> Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest [Victaulic Seal Selection Guide](#) for specific gasket service recommendations and for a listing of services which are not recommended.

**NOTE**

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

**Bolts/Nuts: (specify choice)<sup>3</sup>**

Standard: Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (M10-M16) Class 8.8 (M20 and greater). 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).

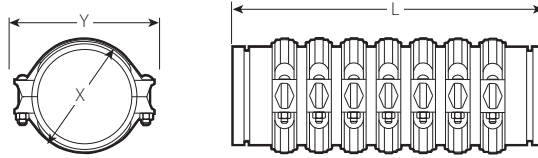
Optional (imperial): Stainless steel oval neck track bolts meeting the mechanical property requirements of ASTM F593, Group 2 (316 Stainless Steel), condition CW. Stainless steel heavy nuts meeting the mechanical property requirements of ASTM F594, Group 2 (316 stainless steel), condition CW, with galling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

<sup>3</sup> Optional bolts/nuts are available in imperial sizes only.

**NOTES**

- The Style 155P expansion joint is only available with Type 316L stainless steel pipe (Sch. 40S). The system designer must give approval for the Style 155P to be used in a potable water system comprised of galvanized carbon steel pipe.
- Clamps and tie bars are provided with the Style 155P to hold it in position prior to installation. These shall be removed after installation.
- For installation requirements for the Style 155P expansion joint, see [publication 09.06](#): Victaulic Expansion Joint Installation.

## 4.0 DIMENSIONS

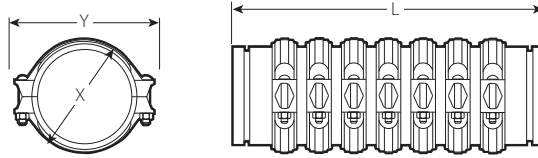


Size		Coupling Style Number	Maximum Linear Movement inches mm	Length "L"			Dimensions		Weight					
Nominal inches DN	Actual Outside Diameter inches mm			Compressed inches mm	Neutral inches mm	Expanded inches mm	X inches mm	Y inches mm	Approx. Each lbs. kg					
2 DN50	2.375 60.3	Style 75	0.19 5	8.00 203	8.09 205	8.17 208	3.43 87	5.22 1.33	4.0 1.8					
			0.38 10	10.25 260	10.43 265	10.61 269			6.3 2.9					
			0.57 14	12.50 318	12.78 325	13.05 331			8.6 3.9					
			0.76 19	14.75 375	15.12 384	15.49 393			10.9 4.9					
			0.95 24	17.00 432	17.47 444	17.93 455			13.2 6.0					
			1.14 29	19.25 489	19.81 503	20.37 517			15.5 7.0					
			1.33 34	21.50 546	22.16 563	22.81 579			17.7 8.0					
			1.52 39	23.75 603	24.50 622	25.25 641			20.0 9.1					
			1.71 43	26.00 660	26.85 682	27.69 703			22.3 10.1					
			1.90 48	28.25 718	29.19 741	30.13 765			24.6 11.2					
			2.09 53	30.50 775	31.54 801	32.57 827			26.9 12.2					
			2.28 58	32.75 832	33.88 861	35.01 889			29.2 13.3					
			2 ½	2.875 73.0	Style 75	0.19 5			8.00 203	8.09 205	8.17 208	3.88 98	5.68 144	5.9 2.7
						0.38 10			10.25 260	10.43 265	10.61 269			8.9 4.0
0.57 14	12.50 318	12.78 325				13.05 331	12.0 5.4							
0.76 19	14.75 375	15.12 384				15.49 393	15.1 6.8							
0.95 24	17.00 432	17.47 444				17.93 455	18.2 8.3							
1.14 29	19.25 489	19.81 503				20.37 517	21.3 9.7							
1.33 34	21.50 546	22.16 563				22.81 579	24.4 11.1							
1.52 39	23.75 603	24.50 622				25.25 641	27.5 12.5							
1.71 43	26.00 660	26.85 682				27.69 703	30.5 13.8							
1.90 48	28.25 718	29.19 741				30.13 765	33.6 15.2							
2.09 53	30.50 775	31.54 801				32.57 827	36.7 16.6							
2.28 58	32.75 832	33.88 861				35.01 889	39.8 18.1							

**NOTES**

- For Style 75 coupling performance and dimensional data, refer to [publication 06.05](#): Victaulic Style 75 Flexible Coupling and [publication 17.09](#): Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe.
- Available assembled for fully expanded, fully compressed or neutral positions, based on system requirements.
- Joints installed horizontally require independent support.

4.0 DIMENSIONS (CONTINUED)

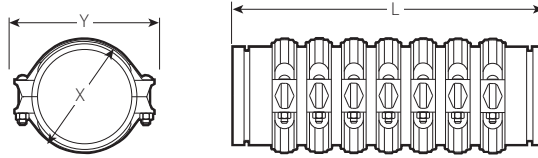


Size		Coupling Style Number	Maximum Linear Movement inches mm	Length "L"			Dimensions		Weight					
Nominal inches DN	Actual Outside Diameter inches mm			Compressed inches mm	Neutral inches mm	Expanded inches mm	X inches mm	Y inches mm	Approx. Each lbs. kg					
3 DN80	3.500 88.9	Style 75	0.19 5	8.00 203	8.09 205	8.17 208	4.50 114	5.90 150	7.6 3.5					
			0.38 10	10.25 260	10.43 265	10.61 269			11.5 5.2					
			0.57 14	12.50 318	12.78 325	13.05 331			15.4 7.0					
			0.76 19	14.75 375	15.12 384	15.49 393			19.3 8.8					
			0.95 24	17.00 432	17.47 444	17.93 455			23.2 10.5					
			1.14 29	19.25 489	19.81 503	20.37 517			27.2 12.3					
			1.33 34	21.50 546	22.16 563	22.81 579			31.1 14.1					
			1.52 39	23.75 603	24.50 622	25.25 641			35.0 15.9					
			1.71 43	26.00 660	26.85 682	27.69 703			38.9 17.7					
			1.90 48	28.25 718	29.19 741	30.13 765			42.8 19.4					
			2.09 53	30.50 775	31.54 801	32.57 827			46.8 21.2					
			2.28 58	32.75 832	33.88 861	35.01 889			50.7 23.0					
			4 DN100	4.500 114.3	Style 75	0.25 6			11.97 304	12.10 307	12.22 310	5.80 147	8.03 204	3.5 1.6
						0.50 13			14.35 364	14.60 371	14.85 377			7.0 3.2
0.75 19	16.73 425	17.11 435				17.48 444	10.5 4.8							
1.00 25	19.11 485	19.61 498				20.11 511	14.0 6.4							
1.25 32	21.49 546	22.12 562				22.74 578	17.5 7.9							
1.50 38	23.87 606	24.62 625				25.37 644	21.0 9.5							
1.75 44	26.25 667	27.13 689				28.00 711	24.5 11.1							
2.00 51	28.63 727	29.63 753				30.63 778	28.0 12.7							
2.25 57	31.01 788	32.14 816				33.26 845	31.5 14.3							
2.50 64	33.39 848	34.64 880				35.89 912	35.0 15.9							
2.75 70	35.77 909	37.15 944				38.52 978	38.5 17.5							
3.00 76	38.15 969	39.65 1007				41.15 1045	42.0 19.1							

NOTES

- For Style 75 coupling performance and dimensional data, refer to [publication 06.05](#): Victaulic Style 75 Flexible Coupling and [publication 17.09](#): Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe.
- Available assembled for fully expanded, fully compressed or neutral positions, based on system requirements.
- Joints installed horizontally require independent support.

4.0 DIMENSIONS (CONTINUED)

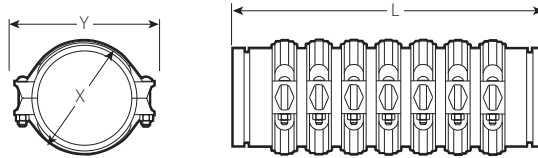


Size		Coupling Style Number	Maximum Linear Movement inches mm	Length "L"			Dimensions		Weight
Nominal inches DN	Actual Outside Diameter inches mm			Compressed inches mm	Neutral inches mm	Expanded inches mm	X inches mm	Y inches mm	Approx. Each lbs. kg
6 DN150	6.625 168.3	Style 75	0.25 6	11.97 304	12.10 307	12.22 310	8.00 203	11.07 281	6.7 3.0
			0.50 13	14.35 364	14.60 371	14.85 377			13.4 6.1
			0.75 19	16.73 425	17.11 435	17.48 444			20.1 9.1
			1.00 25	19.11 485	19.61 498	20.11 511			26.8 12.2
			1.25 32	21.49 546	22.12 562	22.74 578			33.5 15.2
			1.50 38	23.87 606	24.62 625	25.37 644			40.2 18.2
			1.75 44	26.25 667	27.13 689	28.00 711			46.9 21.3
			2.00 51	28.63 727	29.63 753	30.63 778			53.6 24.3
			2.25 57	31.01 788	32.14 816	33.26 845			60.3 27.4
			2.50 64	33.39 848	34.64 880	35.89 912			67.0 30.4
			2.75 70	35.77 909	37.15 944	38.52 978			73.7 33.4
			3.00 76	38.15 969	39.65 1007	41.15 1045			80.4 36.5
			8 DN200	8.625 219.1	Style 75	0.25 6			12.00 305
0.50 13	14.75 375	15.00 381				15.25 387	25.0 11.3		
0.75 19	17.50 445	17.88 454				18.25 464	37.5 17.0		
1.00 25	20.25 515	20.75 527				21.25 540	50.0 22.7		
1.25 32	23.00 584	23.63 600				24.25 616	62.5 28.4		
1.50 38	25.75 654	26.50 673				27.25 692	75.0 34.0		
1.75 44	28.50 724	29.38 746				30.25 768	87.5 39.7		
2.00 51	31.25 794	32.25 819				33.25 845	100.0 45.4		
2.25 57	34.00 864	35.13 892				36.25 921	112.5 51.0		
2.50 64	36.75 934	38.00 965				39.25 997	125.0 56.7		
2.75 70	39.50 1003	40.88 1038				42.25 1073	137.5 62.4		
3.00 76	42.25 1073	43.75 1111				45.25 1149	150.0 68.0		

NOTES

- For Style 75 coupling performance and dimensional data, refer to [publication 06.05](#): Victaulic Style 75 Flexible Coupling and [publication 17.09](#): Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe.
- Available assembled for fully expanded, fully compressed or neutral positions, based on system requirements.
- Joints installed horizontally require independent support.

4.0 DIMENSIONS (CONTINUED)



Size		Coupling Style Number	Maximum Linear Movement inches mm	Length "L"			Dimensions		Weight
Nominal inches DN	Actual Outside Diameter inches mm			Compressed inches mm	Neutral inches mm	Expanded inches mm	X inches mm	Y inches mm	Approx. Each lbs. kg
10 DN250	10.750 273.0	Style 77	0.25 6	16.00 406	16.13 410	16.25 413	13.63 346	17.13 435	82.3 37.3
			0.50 13	18.75 476	19.00 483	19.25 489			119.9 54.4
			0.75 19	21.50 546	21.88 556	22.25 565			157.4 71.4
			1.00 25	24.25 616	24.75 629	25.25 641			195.0 88.5
			1.25 32	27.00 686	27.63 702	28.25 718			232.6 105.5
			1.50 38	29.75 756	30.50 775	31.25 794			270.2 122.6
			1.75 44	32.50 826	33.38 848	34.25 870			307.8 139.6
			2.00 51	35.25 895	36.25 921	37.25 946			345.3 156.6
			2.25 57	38.00 965	39.13 994	40.25 1022			382.9 173.7
			2.50 64	40.75 1035	42.00 1067	43.25 1099			420.5 190.7
			2.75 70	43.50 1105	44.88 1140	46.25 1175			458.1 207.8
			3.00 76	46.25 1175	47.75 1213	49.25 1251			495.7 224.9
12 DN300	12.750 323.9	Style 77	0.25 6	16.00 406	16.13 410	16.25 413	15.63 397	19.25 489	100.3 45.5
			0.50 13	18.75 476	19.00 483	19.25 489			145.8 66.1
			0.75 19	21.50 546	21.88 556	22.25 565			191.4 86.8
			1.00 25	24.25 616	24.75 629	25.25 641			237.0 107.5
			1.25 32	27.00 686	27.63 702	28.25 718			282.5 128.1
			1.50 38	29.75 756	30.50 775	31.25 794			328.1 148.8
			1.75 44	32.50 826	33.38 848	34.25 870			373.6 169.5
			2.00 51	35.25 895	36.25 921	37.25 946			419.2 190.2
			2.25 57	38.00 965	39.13 994	40.25 1022			464.8 210.8
			2.50 64	40.75 1035	42.00 1067	43.25 1099			510.3 231.5
			2.75 70	43.50 1105	44.88 1140	46.25 1175			555.9 252.2
			3.00 76	46.25 1175	47.75 1213	49.25 1251			601.4 272.2







NOTES

- For Style 77 coupling performance and dimensional data, refer to [publication 06.04](#): Victaulic Style 77 Standard Flexible Coupling and [publication 17.09](#): Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe.
- Available assembled for fully expanded, fully compressed or neutral positions, based on system requirements.
- Joints installed horizontally require independent support.

## 5.0 PERFORMANCE

Not applicable – contact Victaulic with questions.

## 6.0 NOTIFICATIONS

 <b>WARNING</b>				
				
<ul style="list-style-type: none"><li>• Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.</li><li>• Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.</li><li>• Wear safety glasses, hardhat, and foot protection.</li></ul>				
<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](#)
- [09.05: Victaulic Expansion Joint for OGS Piping Systems Style 155](#)
- [09.06: Victaulic Expansion Joint Installation Design Data](#)
- [26.02: Victaulic Pipe Line Thermal Growth Design Data](#)
- [I-100: 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](http://www.victaulic.com).

### Warranty

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

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