

Composite Flexible Coupling

Style 171



Patent Pending

1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ½ – 4"/DN40 – DN100

Maximum Working Pressure

- Accommodates pressures ranging from full vacuum (29.9 in Hg/760mm Hg) up to 150psi/1034kPa/10 Bar.

Operating Temperature

- +33°F/+1°C to +130°F/+54°C.

Function

- Designed for use in corrosive applications.
- Utilizes patented Installation-Ready™ technology.
- Provides a flexible pipe joint which allows for expansion, contraction and deflection.

2.0 CERTIFICATION/LISTINGS

Not applicable – contact Victaulic with any questions.

3.0 SPECIFICATIONS – MATERIAL

Housing: Injection molded engineered composite.

Gasket:

Grade “E” EPDM¹

(Double green stripe color code). UL classified in accordance with ANSI/NSF 61 for cold+86°F/+30°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

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 Gasket Selection Guide](#) for specific gasket service guidelines and for a listing of services which are not compatible.

Bolts/Nuts: ASTM F-593 Group 2 (316 stainless steel) track bolts with special anti-galling coating and ASTM F-594 (316 stainless steel) flange nuts.

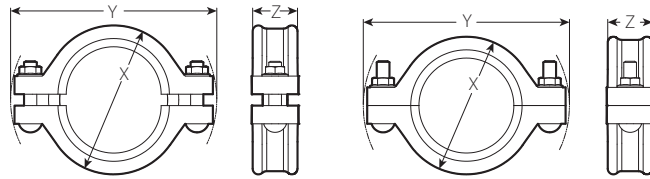
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

4.0 DIMENSIONS

Style 171

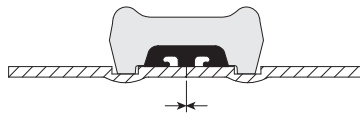


Style 171 Pre-Assembled
(Installation-Ready Condition)

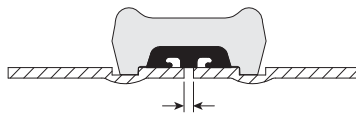
Style 171 Joint Assembled

Size		Pipe End Separation		Bolt/Nut		Dimensions						Weight
Nominal inches DN	Actual Outside Diameter inches mm	(1) Min inches mm	(2) Max inches mm	Qty.	Size inches	Pre-assembled (Installation-Ready™ condition)			Joint Assembled			Approximate (Each) lb kg
						X inches mm	Y inches mm	Z inches mm	X inches mm	Y inches mm	Z inches mm	
1 ½ 40	1.900 48.3	0.00	0.06 1.6	¾	16 x 2 ¼	3.73 95	5.24 132	1.91 48	3.31 84	5.24 133	1.91 48	0.79 0.36
2 50	2.375 60.3	0.00	0.06 1.6	¾	16 x 2 ½	4.28 109	5.84 148	1.93 49	3.86 98	6.09 155	1.93 49	0.93 0.42
2 ½ 65	2.875 73.0	0.00	0.06 1.6	¾	16 x 2 ½	4.87 124	6.25 159	1.92 49	4.37 111	6.50 165	1.92 49	1.04 0.47
3 80	3.500 88.9	0.00	0.06 1.6	½	13 x 2 ¾	5.68 144	7.46 189	2.01 51	5.09 129	7.58 193	2.01 51	1.55 0.70
4 100	4.500 114.3	0.00	0.13 3.2	½	13 x 3	6.86 174	8.74 222	2.13 54	6.08 154	8.78 223	2.13 54	1.64 0.74

(2 & 3) Maximum pipe end separation to be used for determining overall piping system movement for roll (2) or cut (3) groove pipe. For design and installation purposes, the minimum and maximum pipe end separations shall be reduced to the values as indicated in the table below. These design and installation considerations include thermal growth, settlement, installation misalignment and offsets. See illustrations below.



Minimum Pipe Separation (1)
Roll and Cut Groove



Maximum Pipe Separation (2)
Roll and Cut Groove

Design and Installation

The amount of linear movement and angular deflection to be used for design and installation consideration for each coupling is illustrated below.

Size Range	Design and Installation Values			
	Roll Groove and Cut Grooved Pipe			
	Linear Movement ²		Angular Deflection ²	
inches DN	inches mm	Per Cplg. Deg.	Pipe In/Ft mm/m.	
1 ½ 40	0.06 1.6	1.81°	0.38 32	
2 50	0.06 1.6	1.52°	0.32 26	
2 ½ 65	0.06 1.6	1.25°	0.26 22	
3 80	0.06 1.6	1.03°	0.22 18	
4 100	0.13 3.2	1.60°	0.34 28	

² Victaulic recommends for design and installation purposes, these values should be reduced by 50% for 1½ – 3/40 – 80 mm sizes; 25% for 4/100 mm and larger sizes.

5.0 PERFORMANCE

ANSI Standard

Size		Schedules 40 – PVC			Sch. 10 – Carbon Steel		
Nominal inches DN	Actual Outside Diameter inches mm	Wall Thickness inches mm	Maximum Joint Working Pressure psi kPa	Maximum Permissible End Load Lbs N	Wall Thickness inches mm	Maximum Joint Working Pressure psi kPa	Maximum Permissible End Load Lbs N
1	1.315	0.133	150	204	0.109	150	204
25	33.4	3.378	1034	906	2.769	1034	906
1 ½	1.9	0.145	150	425	0.109	150	425
40	48.3	3.683	1034	1892	2.769	1034	1892
2	2.375	0.154	150	665	0.109	150	665
50	60.3	3.912	1034	2956	2.769	1034	2956
2 ½	2.875	0.203	150	974	0.12	150	974
65	73	5.2	1034	4332	3.048	1034	4332
3	3.5	0.216	150	1443	0.12	150	1443
80	88.9	5.486	1034	6420	3.048	1034	6420
4	4.5	0.237	150	2386	0.12	150	2386
100	114.3	6.02	1034	10612	3.048	1034	10612

WARNING

- Depressurize and drain the piping system before attempting to install, remove or adjust any Victaulic piping products.

6.0 NOTIFICATIONS

Not applicable – contact Victaulic with any questions.

7.0 REFERENCE MATERIALS

[05.01: Seal Selection Guide](#)

[29.01: Terms and Conditions](#)

[I-100: Field Installation Handbook](#)

[I-ENDCAP: Victaulic End Caps Installation Instructions](#)

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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