MXT-993202E000



Victaulic® Snap-Joint® Coupling Style 78





1.0 PRODUCT DESCRIPTION

Available Sizes

• 1 – 8"/DN25 – DN200

Pipe Material

- · Carbon steel
- For exceptions reference section 6.0 Notifications

NOTE

• For use on stainless steel pipe, please reference <u>publication 17.09</u>: Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe. When used on light wall stainless steel pipe, the Victaulic RX roll set must be used to roll groove the pipe. For more information regarding roll grooving stainless steel, refer to <u>publication 17.01</u>: Victaulic Pipe Preparation for Use on Stainless Steel Pipe with Victaulic Products.

Maximum Working Pressure

Accommodates pressures ranging from full vacuum (29.9 in Hg/760 mm Hg) up to 300 psi/2065 kPa

Operating Temperature

Dependent on gasket selection from section 3.0

Function

- Joins carbon steel pipe
- Designed for quick disconnect service

Pipe Preparation

· Original Groove System (OGS), Cut grooved, Roll grooved

2.0 CERTIFICATION/LISTINGS

Not applicable - contact Victaulic for details.

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 A-395, Grade 65-45-15, and ASTM A-536, Grade 65-45-12.

Housing Coating: (specify choice)

Standard: Orange enamel.

Optional: Hot dipped galvanized.

Gasket: (specify choice1)

Grade "EHP"

EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C. Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL Cassified 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 RECOMMENDED FOR PETROLEUM SERVICES.

Grade "T" Nitrile

Nitrile (Orange stripe color code). Temperature range -20° F to $+180^{\circ}$ F/ -29° C to $+82^{\circ}$ C. Recommended for petroleum products, air with oil vapors, and vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over $+150^{\circ}$ F/ $+66^{\circ}$ C or for hot dry air over $+140^{\circ}$ F/ $+60^{\circ}$ C.

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.

Handle

Locking Handle:

Sizes 1 – 1½"/DN25 – DN40: Electroplated, heat treated carbon steel, conforming to ASTM A109.

Sizes 2 - 4"/DN50 - DN100 Electroplated, malleable iron conforming to ASTM A47.

Sizes 5 - 8"/DN125 - DN200 Painted malleable iron conforming to ASTM A47.

Toggle Links: Electroplated hot-rolled carbon steel conforming to AISI 1010 or AISI 1020.

Eye Bolt Assembly: 5 – 8"/DN125 – DN200: Electroplated heat-treated carbon steel conforming to AISI C-1040.

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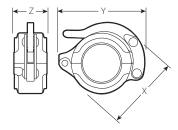
Hinge Pin: Cold-drawn, case-hardened steel conforming to AISI C-1212.

Rivets: Cold-drawn steel conforming to AISI C-1010.



4.0 DIMENSIONS

Style 78 Snap-Joint® Coupling



S	Size	Pipe End Separation ²		ct. Fr.		Dimensions		Weight
Nominal	Actual Outside Diameter	Allowable	Per	Pipe	х	Y	Z	Approximate (Each)
inches	inches	inches	Cplg.	in/ft	inches	inches	inches	lb
DN	mm	mm	Deg.	mm/m	mm	mm	mm	kg
1	1.315	0 - 0.06	2° – 43	0.57	2.75	3.25	1.75	0.8
DN25	33.7	0 -1.6		48	70	83	44	0.4
1 ¼	1.660	0 - 0.06	2° – 10	0.45	3.13	3.75	1.88	1.1
DN32	42.2	0 -1.6		38	79	95	48	0.5
1½	1.900	0 - 0.06	1° – 56	0.40	3.50	4.50	1.88	1.7
DN40	48.3	0 -1.6		33	89	114	48	0.8
2	2.375	0 - 0.06	1° – 31	0.32	4.00	4.75	1.88	1.7
DN50	60.3	0 -1.6		26	102	121	48	0.8
21/2	2.875 73.0	0 - 0.06 0 -1.6	1° – 15	0.26 22	4.75 121	5.88 149	1.88 48	2.5 1.1
3	3.500	0 - 0.06	1° – 2	0.22	5.38	6.25	1.88	2.8
DN80	88.9	0 -1.6		18	137	159	48	1.3
4	4.500	0 - 0.13	1° – 36	0.34	6.88	7.75	2.13	5.5
DN100	114.3	0 -3.2		28	175	197	54	2.5
5	5.563 141.3	0 - 0.13 0 -3.2	1° – 18	0.27 23	8.75 222	9.50 241	2.13 54	9.8 4.4
6	6.625	0 - 0.13	1° – 5	0.23	9.88	10.63	2.13	10.7
DN150	168.3	0 -3.2		18	251	270	54	4.9
8	8.625	0 - 0.13	0° – 50	0.18	12.25	13.00	2.38	15.3
DN200	219.1	0 -3.2		14	311	330	60	6.9

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 ¾ – 3½"/20 – 90 mm and 25% for 4"/100 mm and larger.

NOTE

WARNING: Piping systems must always be depressurized and drained before attempting disassembly and removal of any Victaulic piping products.

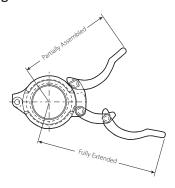


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4.1 DIMENSIONS

Style 78 Snap-Joint® Coupling

Design Considerations



Size Nominal inches	Partially Assembled	Fully	
mm		Extended	
1	3.38	4.50	
25	85.6	114.3	
1 1/4	3.80	4.88	
32	96.5	123.9	
1 ½	5.50	7.63	
40	140.0	193.8	
2	6.25	7.75	
50	158.8	196.9	
21/2	7.16	10.72	
65	181.9	272.3	
3	7.88	10.25	
80	200.1	260.4	
4	10.63	12.88	
100	270.0	327.2	
5	13.66	16.88	
125	347.0	428.7	
6	14.88	18.38	
150	377.9	466.8	
8	15.38	18.91	
200	390.6	480.3.	

NOTES

- Style 78 couplings are not designed for eccentric loadings.
- Style 78 couplings are not recommended for use at the end of concrete pumping booms or on vertical risers above 30 feet. Sound anchoring and lashing practices should always be employed.

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5.0 PERFORMANCE

Style 78 Snap-Joint® Coupling

Size			
Nominal	Actual Outside Diameter	Maximum Working Pressure ³	Maximum End Load ³
inches	inches	psi	lb
DN	mm	kPa	N
1 DN25	1.315 33.7	300 2065	410 1825
1 1/4	1.660	300	650
DN32	42.2	2065	2890
1 ½	1.900	300	850
DN40	48.3	2065	3780
2	2.375	300	1,330
DN50	60.3	2065	5920
2 1/2	2.875	300	1,950
	73.0	2065	8680
3	3.500	300	2,885
DN80	88.9	2065	12840
4	4.500	300	4,770
DN100	114.3	2065	21225
5	5.563	300	7,290
	141.3	2065	32440
6	6.625	300	10,350
DN150	168.3	2065	46060
8	8.625	300	17,500
DN200	219.1	2065	77875

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. 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 1½ times the figures shown.

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, 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.

Installatio

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

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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.

NOTICE

Victaulic does not recommend the use of any furnace butt-welded pipe with sizes NPS 2"/DN50 and smaller Victaulic gasketed joint products. This includes, but is not limited to, ASTM A53 Type F pipe.

7.0 REFERENCE MATERIALS

05.01: Victaulic Seal Selection Guide Elastomeric Seal Construction

17.01: Victaulic Stainless Steel Pipe End Preparation

17.09: Victaulic Grooved Couplings Performance Data for Stainless Steel Pipe

I-100: Victaulic Field Installation Handbook

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