

Victaulic® FireLock™ Outlet-T

Style 922



1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ¼ – 2 ½"/DN32 – DN65
- **Threaded Outlet Sizes:** ½"/DN15, ¾"/DN20, and 1"/DN25

NOTE

- IGS Grooved 1"/DN25 Outlets available for this product. See [publication 10.54](#).

Maximum Working Pressure

- 300 psi/2068 kPa/21 Bar

Application

- Provides a convenient method of incorporating outlets for directly connecting sprinklers, drop nipples, sprigs, gauges, drains and other outlet products

Pipe Material

- Carbon steel
- Contact Victaulic for use on additional pipe types and wall thicknesses

2.0 CERTIFICATION/LISTINGS



NOTES

- See Section 7.2 REFERENCE MATERIALS for additional certification information.

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	

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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)

- Orange enamel (North America, Latin America, Asia Pacific).
- Red enamel (Europe).
- Optional: Contact Victaulic with your requirements for other coatings.

Gasket¹:

- Grade "E" EPDM (Type A)**

EPDM (Violet color code) Applicable for wet and dry (oil-free air) sprinkler services only. Listed/Approved for continuous use in wet and dry systems. Listed/Approved for dry systems at -40°F/-40°C and above. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.

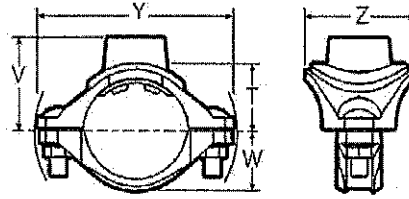
¹ Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest [Victaulic Seal Selection Guide](#) for specific gasket service guidelines and for a listing of services which are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

Bolts/Nuts:

- 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 flange nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial – hex nuts) and ASTM A563M Class 9 (metric – hex nuts). Track bolts and hex flange nuts are zinc electroplated per ASTM B633 Fe/Zn 5, finish Type III (imperial) or Type II (metric).

4.0 DIMENSIONS

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Size		Actual Outside Diameter		Bolt/Nut		Dimensions					Weight		
Nominal Run x Branch FPT ²	DN	inches	mm	Qty.	Size	T ³	V	W	Y	Z	Approximate (Each)		
					inches	inches	inches	inches	inches	inches	lb	kg	
1 1/4 DN32	x	1/2 DN15	1.660	0.840	2	1/2 x 1 1/8	1.30	1.83	1.10	3.87	2.56	1	
			42.4	21.3			33	47	28	98	65	0.5	
			1.050	26.9	2	3/8 x 1 1/8	1.28	1.83	1.10	3.87	2.56	1	
							33	47	28	98	65	0.5	
1	DN25	1.315	0.840	2	3/8 x 1 1/8	1.52	2.18	1.10	3.87	2.56	1		
		33.7	21.3			39	55	28	98	65	0.5		
1 1/2 40	x	1/2 DN15	1.900	0.840	2	3/8 x 1 1/8	1.42	1.95	1.22	4.08	2.56	1	
			48.3	21.3			36	50	31	104	65	0.5	
			1.050	26.9	2	3/8 x 1 1/8	1.40	1.95	1.22	4.08	2.56	1	
							36	50	31	104	65	0.5	
1	DN25	1.315	0.840	2	3/8 x 1 1/8	1.64	2.30	1.22	4.08	2.56	1		
		33.7	21.3			42	58	31	104	65	0.6		
2 50	x	1/2 DN15	2.375	0.840	2	3/8 x 1 1/8	1.66	2.19	1.46	4.60	2.56	1	
			60.3	21.3			42	56	37	117	65	0.6	
			1.050	26.9	2	3/8 x 1 1/8	1.64	2.19	1.46	4.60	2.56	1	
							42	56	37	117	65	0.6	
1	DN25	1.315	0.840	2	3/8 x 1 1/8	1.88	2.54	1.46	4.60	2.56	2		
		33.7	21.3			48	65	37	117	65	0.7		
2 1/2 65	x	1/2 DN15	2.875	0.840	2	3/8 x 1 1/8	1.91	2.44	1.71	5.40	2.56	2	
			73.0	21.3			49	62	43	137	65	0.7	
			1.050	26.9	2	3/8 x 1 1/8	1.89	2.44	1.71	5.40	2.56	2	
							48	62	43	137	65	0.7	
1	DN25	1.315	0.840	2	3/8 x 1 1/8	2.13	2.79	1.71	5.40	2.56	2		
		33.7	21.3			54	71	43	137	65	0.7		
DN65	x	1/2 DN15	3.000	0.840	2	3/8 x 1 1/8	1.91	2.44	1.71	5.50	2.56	2	
			76.1	21.3			49	62	43	140	65	0.7	
			1.050	26.9	2	3/8 x 1 1/8	1.89	2.44	1.71	5.50	2.56	2	
							48	62	43	140	65	0.7	
1	DN25	1.315	0.840	2	3/8 x 1 1/8	2.13	2.79	1.71	5.50	2.56	2		
		33.7	21.3			54	71	43	140	65	0.8		

² Victaulic female threaded products are designed to accommodate standard NPT or BSPT (optional) male pipe threads only. Refer to the specific literature for these types of special male-threaded products for guidance and possible limitations for use. Failure to verify suitability in advance may result in assembly problems or leakage.

³ Center of run to engaged pipe end for NPT threads (dimensions are approximate).

5.0 PERFORMANCE

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Run Size x Outlet Size inches DN	Equivalent Length of 1 inch Schedule 40 Steel Pipe (per UL 213, Section 16) (C=120) ⁴	
	Threaded feet meters	Grooved ⁵ feet meters
1 1/4 DN32 x 1 DN25	8.5 2.6	12.5 3.8
1 1/2 DN40 x 1 DN25	8.5 2.6	12.5 3.8
2 DN50 x 1 DN25	8.5 2.6	12.5 3.8
2 1/2 x 1 DN25	8.5 2.6	12.5 3.8
DN65 x 1 DN25	8.5 2.6	12.5 3.8

⁴ Hazen-Williams coefficient of friction is 120.

⁵ 1" FireLock™ Innovative Groove System (IGS) outlet

6.0 NOTIFICATIONS

WARNING

- 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.

Failure to follow these instructions could result in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

	Dimensions	
	Minimum Hole Diameter/ Hole Saw Size Inches mm	Maximum Hole Diameter/ Hole Saw Size Inches mm
All Outlet Sizes	1 1/8 30	1 1/4 32

7.1 REFERENCE MATERIALS

Size Nominal inches DN	Services Pressures per Regulatory Approvals and Listings ⁶					
	UL psi kPa	ULC psi kPa	FM psi kPa	VdS psi kPa	LPCB psi kPa	CNBOP psi kPa
1 ¼ x ½ DN32 X DN15	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
1 ¼ x ¾ DN32 X DN20	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
1 ¼ x 1 DN32 X DN25	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
1 ½ x ½ DN40 X DN15	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
1 ½ x ¾ DN40 X DN20	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
1 ½ x 1 DN40 X DN25	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
2 x ½ DN50 X DN15	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
2 x ¾ DN50 X 20	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
2 x 1 DN50 X DN25	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
2 ½ x ½	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
2 ½ x ¾	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
2 ½ x 1	300 2068	300 2068	300 2068	232 1600	232 1600	232 1600
DN65 X DN15	-	-	300 2068	232 1600	232 1600	232 1600
DN65 X DN20	-	-	300 2068	232 1600	232 1600	232 1600
DN65 X DN25	-	-	300 2068	232 1600	232 1600	232 1600

⁶ Pressures listed in this chart are based upon standard wall pipe. Approved and Listed pressures may vary by pipe schedule.

NOTE

- Consult regulatory agency websites for details and the most recent regulatory information.

7.2 REFERENCE MATERIALS

05.01: Victaulic Seal Selection Guide

29.01: Victaulic Terms and Conditions of Sale

I-100: Installation Instructions

I-922: Installation Instructions, FireLock™ Outlet-I

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 WeChat.

Warranty

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

Trademarks

Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.

WARNING



- Read and understand all instructions before attempting to install any Victaulic piping products.
 - Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.
 - Wear safety glasses, hardhat, and foot protection.
- Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

The Style 922 FireLock Outlet-T is UL Listed and FM Approved up to 300 psi/2068 kPa and VdS approved up to 16 Bar at ambient temperatures that are typical for fire protection systems.

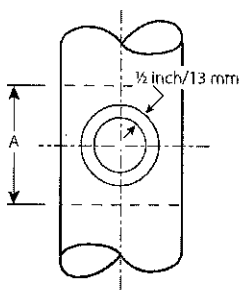
Pipe Preparation for Outlet-T Installation

- The Style 922 FireLock Outlet-T is designed for direct connection of sprinkler heads, drop nipples, sprigs, drains, gauges, and other outlet products.

NOTICE

- Victaulic hole cutting tools are recommended for proper hole preparation.

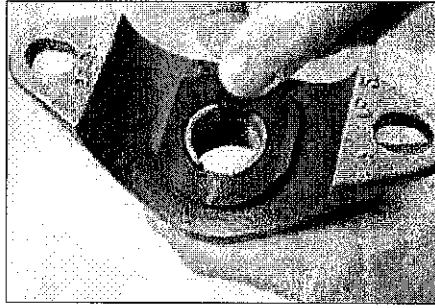
- Proper preparation of the hole is essential for sealing and performance.
- Drill a 1 3/16-inch/30-mm minimum hole (1 1/4-inch/32-mm maximum hole) on the centerline of the pipe. **NOTE:** Holes MUST be drilled on the centerline of the pipe.
- Victaulic female threaded products are designed to accommodate standard NPT or BSPT (Optional) male pipe threads only. Use of male threaded products with special features, such as probes, dry pendent sprinkler heads, etc., should be verified as suitable for use with this Victaulic product. Failure to verify suitability in advance may result in assembly problems or leakage.
- Ensure that a 1/2-inch/13-mm area around the hole is clean, smooth, and free from indentations and/or projections that could affect gasket sealing (refer to the sketch below). Remove any burrs and sharp or rough edges from the hole. Burrs and sharp edges might affect assembly, proper seating of the locating collar, flow from the outlet, or gasket seating.



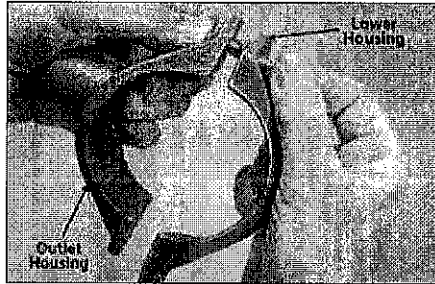
Exaggerated for clarity



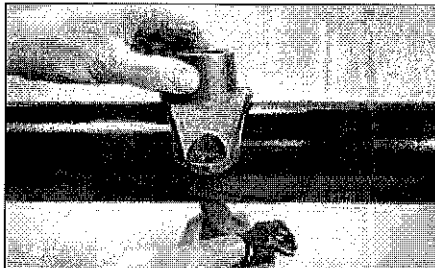
Installation



1. INSTALL GASKET: Install the gasket into the gasket pocket, as shown above. Press the gasket along the full circumference to ensure that it seats fully in the gasket pocket. **DO NOT LUBRICATE THE GASKET.**

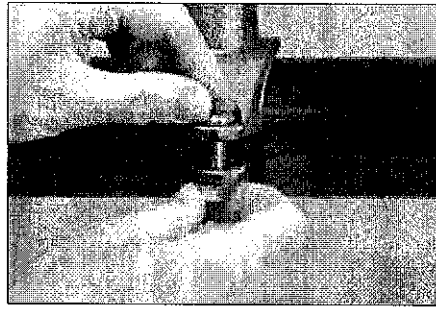


2. ASSEMBLE HOUSINGS: Insert a bolt into the two housings. Thread a flange nut loosely onto the end of the bolt (nut should be flush with end of bolt) to allow for the "swing-over" feature.

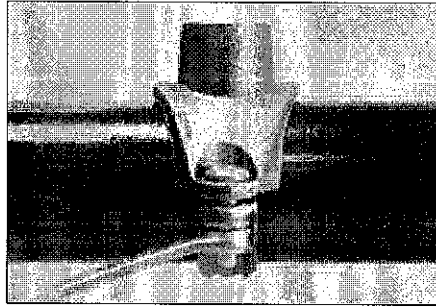


3. INSTALL HOUSINGS: Install the outlet housing onto the pipe by centering the locating collar in the hole. To check for proper engagement, slide the outlet housing back and forth while pushing down. A properly positioned outlet housing can be moved only a small amount in any direction.

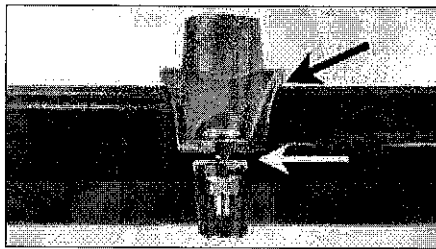
3a. While holding the outlet housing in place, rotate the lower housing around the pipe. Make sure the locating collar remains seated properly in the hole.



4. INSTALL REMAINING BOLT/ NUT: Insert the remaining bolt into the outlet housing and lower housing. Thread a flange nut onto the bolt finger-tight. **NOTE:** Make sure the oval neck of each bolt seats properly in the bolt hole.



5. TIGHTEN NUTS: Tighten the flange nuts evenly by alternating sides to an approximate torque value of 20 ft-lbs/ 27 N•m to ensure proper gasket compression. **NOTE:** To avoid over-tightening the flange nuts, use a wrench with a maximum length of 8 inches/ 200 mm. **DO NOT** over-tighten the flange nuts.



5a. INSPECT THE ASSEMBLY: The outlet housing, near the gasket, should not make metal-to-metal contact with the pipe. In addition, a small gap is should be present between the outlet housing and the lower housing, as shown above.

Style 922 Helpful Information

Run X Branch	Nut Size inches/Metric	Socket Size inches/mm
All Sizes	3/8 M10	9/16 15