



## Model RSM1 Two-Hole Side Mount CPVC Pipe Strap

cULus Listed

### Product Description

The Reliable RSM1 Two-Hole Side Mount CPVC pipe strap is designed to support non-metallic CPVC pipe horizontally from the side or bottom of a beam, stud, sheet steel with a minimum thickness of 20 gauge (.0359" / .911mm), or another structural support member used as an attaching structure. When used with vertical piping or when installed on the top surface of an attaching structure the RSM1 acts as a guide only and does not directly support the pipe it is installed upon; when installed on top of a beam or other attaching structure, the RSM1 also helps restrain thrust of a sprinkler during discharging of the fire protection system. The supplied fasteners are only suitable for installing the RSM1 pipe strap into wood; when installing into sheet steel a different, metal-appropriate screw must be used. The RSM1 Two-Hole Side Mount CPVC pipe strap includes flared features to prevent damage to the pipe if slid through an installed strap and includes retaining dimples to allow for easy positioning of straps that enable simplified assembly of pipe and straps into their installed position. The RSM1 pipe strap is available for NPS / DN pipe sizes from 3/4" (20mm) to 2" (50mm).

### Maintenance

The owner is responsible for maintaining the fire protection system in proper operating condition. Any system maintenance or testing that involves placing a control valve out of service will eliminate the fire protection that is provided by the fire protection system.

The Reliable CPVC straps and associated equipment shall periodically be given a thorough inspection and test. NFPA 25, "Inspection, Testing and Maintenance of Water Based Fire Protection Systems," provides minimum maintenance requirements.

### Guarantee

For Reliable Automatic Sprinkler Co., Inc. guarantee, terms, and conditions, visit [www.reliablesprinkler.com](http://www.reliablesprinkler.com).



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### Ordering Information

Specify the following when ordering:

#### Model

- RSM1

#### Nominal Size

- 3/4" (20 mm)
- 1" (25 mm)
- 1-1/4" (32 mm)
- 1-1/2" (40 mm)
- 2" (50 mm)

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### Technical Specifications

**Material:** ASTM A576 Gr 1020 (equivalent to AISI 1020 steel)

**Surface Treatment:** Hot-dip Galvanizing per ASTM A123 on raw material prior to forming (pre-galvanizing)

**Manufacturing Process:** Cold-Formed Die Stamping

**Application:** Non-metallic CPVC Pipe for use in Fire Protection Systems

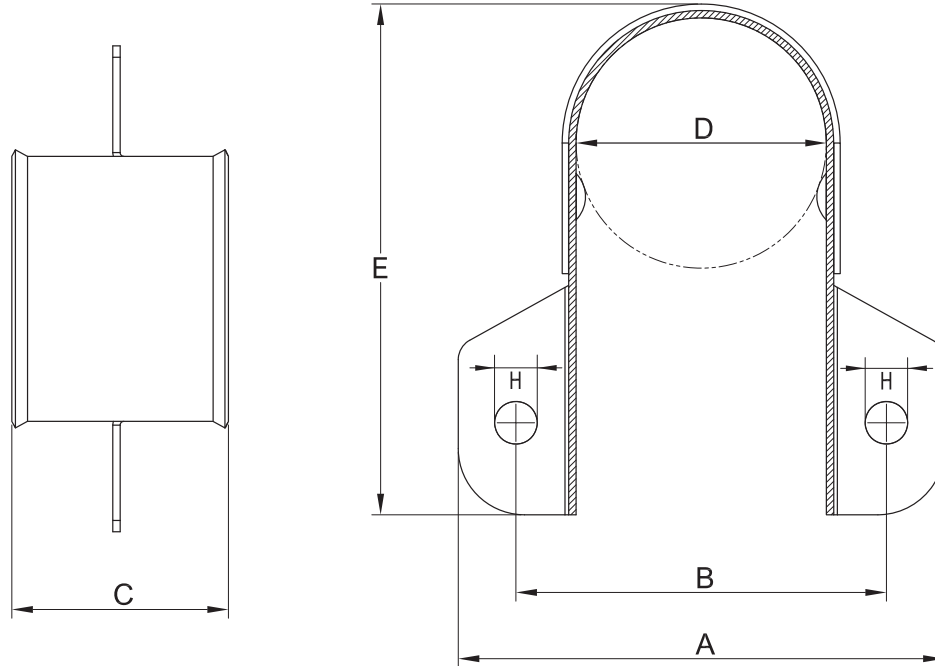
### Listings and Approvals

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## Reliable Model RSM1 Two-Hole Side Mount CPVC Pipe Strap Specification and Dimensions

Figure 1



### Dimensions in. (mm)

Table A

Nominal Pipe Size	D	A	B	C	E	H
3/4 (20)	1-1/16 (27)	2-5/16 (59)	1-11/16 (43)	1-3/16 (30)	1-15/16 (49)	7/32 (6)
1 (25)	1-5/16 (33)	2-9/16 (65)	1-15/16 (50)	1-3/16 (30)	2-1/4 (57)	7/32 (6)
1-1/4 (32)	1-11/16 (42)	2-15/16 (74)	2-5/16 (59)	1-3/16 (30)	2-1/4 (57)	7/32 (6)
1-1/2 (40)	1-7/8 (48)	3-3/16 (80)	2-9/16 (65)	1-3/16 (30)	2-13/16 (71)	7/32 (6)
2 (50)	2-3/8 (60)	3-5/8 (92)	3 (77)	1-3/16 (30)	3-5/16 (84)	7/32 (6)

## WARNINGS

1. The RSM1 CPVC pipe strap and the supported fire protection system must be installed in accordance with NFPA 13, the installation requirements of the pipe manufacturer, and all applicable installation standards.
2. The RSM1 CPVC pipe strap shall only be used to install cULus Listed CPVC pipe.
3. Ensure that the compatibility of the RSM1 CPVC pipe strap, pipe, and fire protection system components with the surrounding environment prior to installation.
4. Only attach the RSM1 CPVC pipe strap to structural components that are adequate in all respects, including integrity, placement, and fitness-for-purpose, to support the RSM1 CPVC pipe strap and the fire protection system.
5. Ensure that the screws attaching the RSM1 CPVC pipe strap does not puncture or damage any systems or equipment.

6. Do NOT use impact tools to install the RSM1 CPVC pipe strap. Use of impact tools may damage the RSM1 CPVC pipe strap, supported pipe, and structure to which the RSM1 CPVC strap is attached.
7. The screws used to install the RSM1 CPVC pipe strap must be tightened adequately to hold the pipe strap firmly to the structure. Do NOT over-tighten the screws to avoid damaging the screws, RSM1 CPVC pipe strap, or structure to which the RSM1 CPVC pipe strap is attached.
8. When the provided screws are not used, the installer is responsible for selecting a washer head fastener capable of supporting the required loads.
9. Failure to follow these warnings and installation instructions may result in product malfunction, up to and including failure of the fire protection system.

## Installation

1. The RSM1 CPVC pipe strap acts as a pipe support ONLY when installed on the side or bottom surfaces of an attaching structure as shown in Figure 2 and Figure 3. For any orientation where the pipe is vertically positioned, this product acts as a guide ONLY, not a support. When this product is installed on the top surface of an attaching structure as shown in Figure 4, this product acts primarily as a guide, but will also provide support ONLY to resist thrust of a sprinkler during operation. Note that in all figures, the vertical arrow points in the downward direction to the floor to clearly illustrate the correct support and guide-only installation orientations of this product.

2. Clip strap(s) around pipe or slide the strap(s) over the end of the pipe and into position on the pipe. The pipe should slide freely in the strap. It is acceptable to fit all straps onto a piece of pipe prior to installing fasteners that secure the pipe and straps to the attaching structure.

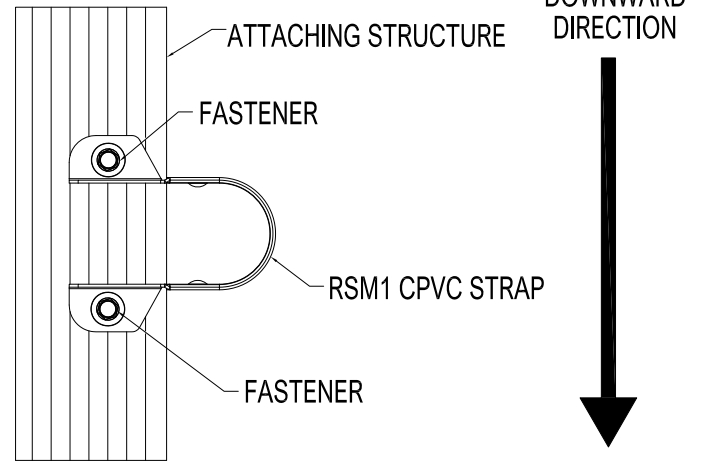
3. Orient the strap(s) and attached the strap to the structure using either the two (2) fasteners provided or two (2) appropriate alternate washer-head fasteners. All straps shall be spaced in accordance with NFPA 13, the pipe manufacturer's installation instructions, and all other applicable requirements. Pre-drilling is not required when supplied fasteners are used. The supplied fasteners may be installed with either a 5/16-inch or 8 mm socket.

4. When installing the RSM1 CPVC pipe strap into sheet steel a self-drilling screw (also called a tek-type screw) must be used; an appropriate screw for this product must have a minimum diameter of #12 (5.5 mm) and a minimum length of 1-inch (25 mm). Pre-drilling is not required when a screw of this type is used.

5. Inspect the RSM1 CPVC Pipe Strap and other fire protection system components following installation to ensure that the products have been installed correctly and that the pipe is secured to the attaching structure in accordance with all application requirements and in a manner suitable for use in a fire protection system.

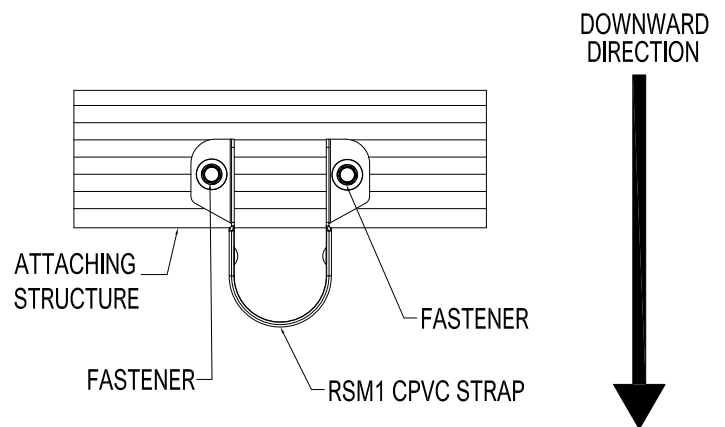
**Correct Installation as a Pipe Support to Side Surface of Attaching Structure**

**Figure 2**



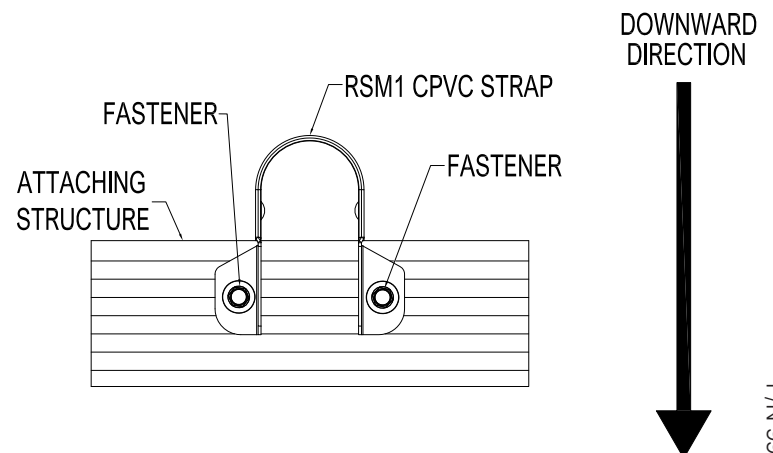
**Correct Installation as a Pipe Support to Bottom Surface of Attaching Structure**

**Figure 3**



**Correct Installation as a Guide/Thrust Restraint to Top Surface of Attaching Structure**

**Figure 4**



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