

# Reliable®

## Model B Model FM Spray Nozzles

Reliable Models B Open Window, FM Open Window and FM Open Cornice Nozzles are especially designed for external use. They are installed in locations where a blanket of water is desired over a predetermined area. Open Nozzle systems can be operated manually or by quick opening valves that are pneumatically, hydraulically or electrically controlled.

All Open Nozzles are available in the following finishes: Bronze, Chrome, lead plated. No waterway protection is provided.

The following table lists Reliable Open Nozzles by type, orifice size, pipe connection size, overall length, installation position and SIN.

Installation positions other than the design installation position shown in the table may be used. However, the resulting distribution pattern in the installed position must be carefully considered.

### Model B Open Window Nozzle

This Nozzle is designed to provide protection for exterior wall, windows and other openings of buildings that may be subjected to fire spreading from neighboring properties. It is usually installed at the top of windows or other openings.

**Important!** Reliable fire sprinklers must be handled, stored, and installed in accordance with the guidelines in Caution Sheet 310 and this bulletin. Failure to follow these instructions may result in unintended operation or nonoperation of the fire protection system.

The Model B Open Window Sprinkler may be utilized in the protection of such things as horizontal, multi-tier veneer dryers and structural steel members not requiring fire-resistant insulation. For such uses the authority having jurisdiction should be consulted for the acceptance of the application.

A Model B Open Window Sprinkler distributes water in a fan-shaped pattern against the exterior surface, resulting in a water curtain extending all the way to the ground.

UL Listed, FM Approved.



Type	Orifice Size (in)	NPT Thread (in)	K Factor		Overall Length (in)	Installation Position	Pressure (psi)	Distance (ft)	Width (ft)	Sprinkler Identification Number (SIN)
			US	Met-ric						
Window (Model B)	1/4	1/2	1.81	26	1 13/16	Pendent	7	8	20	R0413
							53	15	43	
							100	16	42	
	5/16	1/2	2.57	37	1 13/16	Pendent	4	8	22	R0414
							52	16	40	
							100	17	40	
	3/8	1/2	3.45	50	1 13/16	Pendent	4	9	22	R0415
							52	18	40	
							100	17	40	

The Window (Model B) spray nozzles require the use of an individual, integral, or main-line strainer per Factory Mutual Approval Standards.

**Model FM  
Open window Nozzle**

This Nozzle performs the same basic function for the protection of exterior walls and their openings as the Model B Open Window Sprinkler. Having a larger orifice than the Model B Open Window Sprinkler, it distributes a larger volume of water.

FM Approved.



Model FM  
Window

Type	Orifice Size (in)	NPT Thread (in)	K Factor		Overall Length (in)	Installation Position	Pressure (psi)	Angle	Width (ft)	Sprinkler Identification Number (SIN)
			US	Met-ric						
Window (Model FM)	3/4	3/4	14.4	207	3	Pendent	7	150	16	R0411
							52	150	20+	
							100	151	20+	
	5/8	3/4	10.0	144	3	Pendent	7	149	11	R0416
							52	150	20+	
							100	150	20+	
	1/2	1/2	6.6	95	3	Pendent	7	119	9	R0418
							52	121	15	
							100	119	15	

**Model FM  
Open Cornice Nozzle**

This Nozzle is installed under building cornices and ridges to provide protection for these exterior surfaces. Because of the special contour of the deflector, it distributes water equally on opposite sides in a narrow fan-shaped curtain. The distribution pattern covers the underside of cornices and ridges with water.

FM Approved.



Model FM  
Cornice

Type	Orifice Size (in)	NPT Thread (in)	K Factor		Overall Length (in)	Installation Position	Pressure (psi)	Angle	Width (ft)	Sprinkler Identification Number (SIN)
			US	Met-ric						
Cornice (Model FM)	5/8	3/4	9.8	141	2 5/8	Upright	7	139	28	R0426
							52	141	44	
							100	141	44	
	1/2	1/2	6.5	94	2 5/8	Upright	7	136	20	R0428
							52	138	44	
							100	140	44	

For specific water distribution information, refer to the spray distribution section of the catalog.

The equipment presented in this bulletin is to be installed in accordance with the latest published Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable. Products manufactured and distributed by Reliable have been protecting life and property for over 80 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

Manufactured by



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