SPRAY SYSTEM OPEN NOZZLES

Model B & FM Window

Window Nozzles



Model B Window



Model FM Window

PRODUCT DESCRIPTION

The AG Fire Sprinkler Nozzles Models B and FM Open Window 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.

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.

OPEN NOZZLE – MODEL B WINDOW

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.

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.

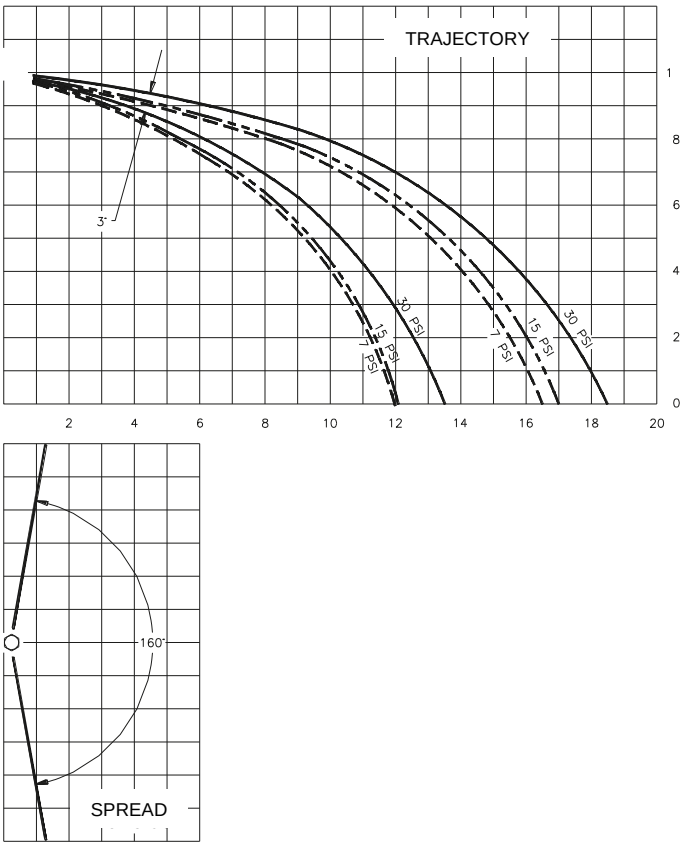
UL Listed, FM Approved.

Type	Orifice Size (in)	NPT Thread (in)	K Factor		Overall length	Installation Position	Pressure (psi)	Distance (ft)	Width (ft)	Sprinkler Identification Number (SIN)
			US	Metric						
Window (Model B)	¼”	½”	1,81	26	1 13/16” 20,63 mm	Pendent	7 / 0,48	8 / 2,44	20 / 6,10	R0413
							53 / 3,65	15 / 4,57	43 / 13,11	
							100 / 6,89	16 / 4,87	42 / 12,80	
	5/16”	½”	2,57	37	1 13/16” 20,63 mm	Pendent	4 / 0,27	8 / 2,44	22 / 6,71	R0414
							52 / 3,58	16 / 4,87	40 / 12,19	
							100 / 6,89	17 / 5,18	40 / 12,19	
	3/8”	½”	3,45	50	1 13/16” 206,63 mm	Pendent	4 / 0,27	9 / 2,74	22 / 6,71	R0415
							52 / 3,58	18 / 5,49	40 / 12,19	
							100 / 6,89	17 / 5,18	40 / 12,19	

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DISTRIBUTION PATTERNS – MODEL B WINDOW

1. Profile indicates maximum effective throw of one half of symmetrical spray pattern.
2. Sprinklers shown operating at flowing pressures indicated.
3. Spacing 1 foot (0,304 m).



These distribution patterns illustrate approximate trajectory and coverage as guidance for preventing an obstruction from being placed in the flow path. No specific coverage areas or densities are implied by these patterns.

	Flowing pressure		Distance Feet (metres)		
	psi	bar	3/4"	5/8"	1/2"
L1	7	0.5	12.0 (3.7)	12.0 (3.7)	13.5 (4.1)
L2	15	1.1	13.0 (4.0)	14.0 (4.3)	17.3 (5.3)
L3	30	2.1	16.5 (5.0)	17.0 (5.2)	18.5 (5.6)

OPEN NOZZLE – MODEL FM WINDOW

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.

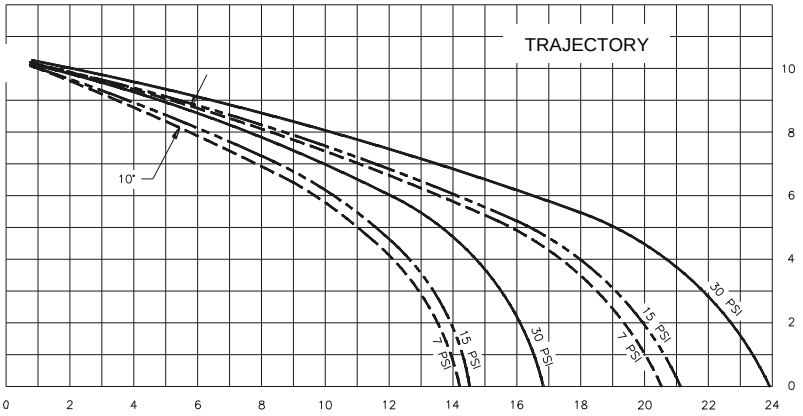
FM Approved.

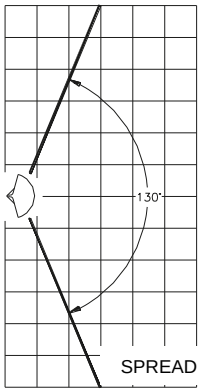
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Type	Orifice Size	NPT Thread	K Factor		Overall length	Installation Position	Pressure (psi)	Distance (ft)	Width (ft)	Sprinkler Identification Number (SIN)
			US	Metric						
Window (Model FM)	¾"	¾"	14,4	207	3"	Pendent	7 / 0,48	150 / 45,72	16 / 4,88	R0411
							52 / 3,58	150 / 45,72	20 / 6,09	
							100 / 6,89	151 / 46,02	20 / 6,09	
	5/8"	¾"	10,0	144	3"	Pendent	7 / 0,48	149 / 45,41	11 / 3,35	R0416
							52 / 3,58	150 / 45,72	20 / 6,09	
							100 / 6,89	150 / 45,72	20 / 6,09	
	½"	½"	6,6	95	3"	Pendent	7 / 0,48	119 / 36,27	9 / 2,74	R0418
							52 / 3,58	121 / 36,88	15 / 4,57	
							100 / 6,89	119 / 36,27	15 / 4,57	
							52 / 3,58	138 / 42,06	44 / 13,41	
							100 / 6,89	140 / 42,67	44 / 13,41	

DISTRIBUTION PATTERNS – MODEL FM WINDOW

1. Profile indicates maximum effective throw of one half of symmetrical spray pattern.
2. Sprinklers shown operating at flowing pressures indicated.
3. Spacing 1 foot (0,304 m).





These distribution patterns illustrate approximate trajectory and coverage as guidance for preventing an obstruction from being placed in the flow path. No specific coverage areas or densities are implied by these patterns.

	Flowing pressure		Distance Feet (metres)		
	psi	bar	3/4"	5/8"	1/2"
L1	7	0.5	16.8 (5.1)	14.4 (4.4)	14.3 (4.4)
L2	15	1.1	21.5 (6.6)	18.0 (5.5)	17.0 (5.2)
L3	30	2.1	24.0 (7.3)	21.0 (6.4)	20.5 (6.2)

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ORDERING INFORMATION

MODEL	K FACTOR	CODE
B nozzle	26 (1.81)	SW015FMUL026
B nozzle	37 (2.57)	SW015FMUL037
B nozzle	50 (3.45)	SW015FMUL050
FM nozzle	95 (6.6)	SW015UL10100
FM nozzle	144 (10.0)	SW015UL16100
FM nozzle	207 (14.4)	SW015UL23000

Specify:

Nozzle Model	
Quantity	
Type of nozzle	
Orifice size	
K factor	
Pressure	

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard 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.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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