



# Open Sprinklers

Reliable Models G & F1 Open Sprinklers are similar in design to Reliable Models G & F1 Automatic Sprinklers except they are not equipped with fusible or frangible element parts, and therefore, do not operate automatically. They are installed in locations where a blanket of water is desired over a predetermined area. Open Sprinkler systems can be operated manually or by quick opening valves that are pneumatically, hydraulically or electrically controlled.

Open Sprinklers are available in four types: Standard Upright, Standard Pendent, Conventional, and Sidewall.

All Open Sprinklers are available in the following finishes: Plain Bronze, lead plated wax coated or wax coated over lead plated. No waterway protection is provided. Consult factory for other finishes.

The following table lists Reliable Open Sprinklers 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.

Type	Orifice Size	NPT Thread	K Factor		Overall Length	Installation Position	Sprinkler Identification Number (SIN)
			US	Metric			
Standard Upright (Model G)	$\frac{5}{16}$ " , $\frac{3}{8}$ " , $\frac{7}{16}$ "	$\frac{1}{2}$ "	1.98, 2.82, 4.24	30, 40, 60,	$2\frac{7}{8}$ "	Upright	R1022, R1021, R1023 R1025, R1026, R1027
	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	$2\frac{7}{8}$ "	Upright	
	$\frac{17}{32}$ "	$\frac{1}{2}$ " , $\frac{3}{4}$ "	7.96, 8.20	115	$2\frac{7}{8}$ " , $2\frac{15}{16}$ "	Upright	
Standard Pendent (Model G)	$\frac{5}{16}$ " , $\frac{3}{8}$ " , $\frac{7}{16}$ "	$\frac{1}{2}$ "	1.98, 2.82, 4.24	30, 40, 60,	$2\frac{7}{8}$ "	Pendent	R1012, R1011, R1013 R1015, R1016, R1017
	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	$2\frac{7}{8}$ "	Pendent	
	$\frac{17}{32}$ "	$\frac{1}{2}$ " , $\frac{3}{4}$ "	7.96, 8.20	115	$2\frac{7}{8}$ " , $2\frac{15}{16}$ "	Pendent	
Conventional (Model G)	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	$2\frac{7}{8}$ "	Upright or Pendent	R1075, R1077
	$\frac{17}{32}$ "	$\frac{3}{4}$ "	8.20	115	$2\frac{15}{16}$ "	Upright or Pendent	
Sidewall (Model G)	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	$2\frac{7}{8}$ "	Upright or Pendent	R1285, R1235
	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80	$3\frac{5}{16}$ "	Horizontal	
Standard Upright (Model F1)	$\frac{3}{8}$ " , $\frac{7}{16}$ "	$\frac{1}{2}$ "	2.82, 4.24	40, 60	2.20"	Upright	R1721, R1713 R1725 R1722
	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	2.20"	Upright	
	$\frac{17}{32}$ "	$\frac{3}{4}$ "	8.00	115	2.31"	Upright	
Standard Pendent (Model F1)	$\frac{3}{8}$ " , $\frac{7}{16}$ "	$\frac{1}{2}$ "	2.82, 4.24	40, 60,	2.20"	Pendent	R1711, R1713 R1715 R1712
	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	2.20"	Pendent	
	$\frac{17}{32}$ "	$\frac{3}{4}$ "	8.00	115	2.31"	Pendent	
Conventional (Model F1)	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	2.20"	Upright or Pendent	R1775 R1772
	$\frac{17}{32}$ "	$\frac{3}{4}$ "	8.00	115	2.30"	Upright or Pendent	
Sidewall (Model F1)	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80,	2.20"	Upright or Pendent	R1785 R1735
	$\frac{1}{2}$ "	$\frac{1}{2}$ "	5.62	80	2.63"	Horizontal	

Refer to the appropriate automatic sprinkler product bulletins for listing and approval information.

**Model G & F1 - Open Standard (Spray) Upright and Pendent Sprinklers**

Models G and F1 standard upright and pendent sprinklers distribute water laterally and downward in a wide pattern approximating a half sphere. This hemisphere is completely and uniformly filled with water in the form of small drops and spray. A circular area, from 12 to about 20 ft. (3.7 to 6.1m) in diameter, is covered 10 ft. (3.0m) below the sprinkler at minimum water discharge pressure. See Technical Bulletins 110 and 117.



**Model F1  
Standard Upright**



**Model F1  
Standard Pendent**



**Model G  
Standard Pendent**



**Model G  
Standard Upright**

**Model G & F1 - Conventional Open Style Sprinkler**

This deflector configuration is used primarily in those countries where the LPC installation rules have precedence. The sprinkler distributes approximately 60% of its water discharge upward against the ceiling with the balance downward. It may be installed in either the upright or pendent position. Sprinklers with conventional deflectors are available with orifice sizes corresponding to light, ordinary and extra-hazard installations. See Technical Bulletins 110 and 117.



**Model G  
Standard Conventional**



**Model F1  
Standard Conventional**

**Model G & F1 - Open Sidewall Sprinklers**

This deflector configuration is designed for use where standard sprinklers are deemed impractical because of decorative or structural conditions. It discharges approximately 15% of the water on the wall behind it with the remaining 85% discharged in front of the sprinkler.

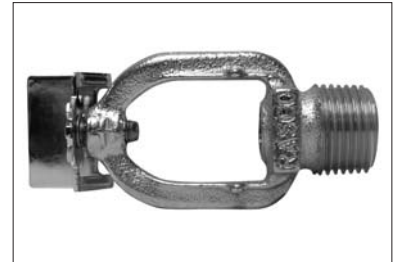
The Model G & F1 Vertical Sidewall Sprinklers may be installed in either the upright or the pendent position, and are intended for light hazard occupancy use.

The Model G & F1 Horizontal Sidewall Sprinklers are intended for light hazard occupancies and in some applications may be used in ordinary hazard occupancies.

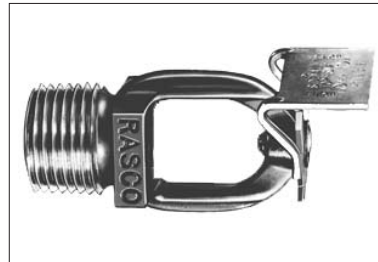
See Technical Bulletins 112 and 117.



**Model G  
Vertical Sidewall**



**Model G  
Horizontal Sidewall**



**Model F1  
Horizontal Sidewall**

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 pertinent 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



**The Reliable Automatic Sprinkler Co., Inc.**

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