

Pendent

Pendent automatic sprinklers are sprinklers designed such that the water discharge from the sprinkler orifice is directed downward towards the deflector which in turn directs the water downward toward the protected area. The sprinkler is designed such that the deflector is located below the pipe to which the sprinkler is connected.

Recessed Horizontal Sidewall

Sidewall sprinklers are sprinklers that are intended for installation near a wall/ceiling interface. They are equipped with a special deflector which discharges most of the water in a horizontal plane so that the water is directed onto adjacent walls as well as the protected area. The sprinklers are generally intended for locations such as offices, hotel lobbies and dining rooms, where the installation of Non-Storage pendent or upright sprinklers with the usual ceiling spacing and pipe location may be objectionable because of appearance. They are also installed for special circumstances where their directional properties are desirable.

Recessed horizontal sidewall sprinklers consist of a horizontal sidewall sprinkler installed in a decorative recessed cup which reduces the protrusion of the sprinkler from the wall. They are intended for use with concealed sprinkler piping where attractive appearance is desired; such occupancies may include offices, hotel lobbies, dining rooms, clubs and similar properties.

Recessed Pendent

Recessed pendent sprinklers consist of a pendent sprinkler installed in a decorative recessed cup which reduces the protrusion of the sprinkler from the ceiling. They are intended for use with concealed sprinkler piping where attractive appearance under a ceiling is desired; such occupancies may include offices, hotel lobbies, dining rooms, clubs and similar properties. FM Approved recessed pendent sprinklers are limited to a maximum temperature rating of 225°F (107°C) and to protection of hazard occupancies as outlined in the occupancy-specific FM Global Property Loss Prevention Data Sheet. Unless indicated otherwise by the occupancy-specific FM Global Property Loss Prevention Data Sheet, these sprinklers are FM Approved only for use in wet systems as well as pre-action systems that qualify as a wet system.

Upright

Upright automatic sprinklers are sprinklers designed such that the water discharge from the sprinkler orifice is directed upward towards the deflector which in turn redirects the water downward toward the protected area. The sprinkler is designed such that the deflector is located above the pipe to which the sprinkler is connected.

Vertical Sidewall

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Vertical sidewall automatic sprinklers are sidewall-type sprinklers in which the axis of the sprinkler orifice is oriented vertically. They are FM Approved for use in both the upright and pendent positions, except where noted otherwise.

Non-Storage Sprinklers

A Non-Storage automatic sprinkler is a sprinkler that has been categorized by FM Global as acceptable for protecting non-storage-type occupancies and/or other occupancy hazards characterized by low to moderate heat-release rate fires as permitted in a FM Global occupancy-specific Property Loss Prevention Data Sheet.

K5.6 (K80 metric)

Non-Storage automatic sprinklers having a K-factor value of 5.6 (80 metric) are similar to Non-Storage automatic sprinklers having a K-factor value of 2.8 (40 metric), except that they discharge 100% more water at the same discharge pressure and typically do not require the use of individual or system strainers. Pendent sprinklers of this K-factor would, however, require the installation of a return bend if the water supply is fed from an open-body type source. See FM Global Property Loss Prevention Data Sheet 2-0, *Installation Guidelines for Automatic Sprinklers*, for additional details and requirements regarding these sprinklers.

K5.6 (K80 metric) Horizontal Sidewall

SF341

Company Name:	Safex Fire Services Ltd
Company Address:	202 "A", Dhanraj Industrial Estate, Sunmill Road ,Lower Parel (West), Mumbai 400013 , India
Company Website:	http://safexfire.com
New/Updated Product Listing:	Yes

Primary Class of Work:	2012-AS, Control Mode, Sidewall
Listing Country:	India
Sprinkler Category:	Non Storage
K:	5.6
Type:	Horizontal Sidewall
Response:	QR - Quick Response
Element:	3 mm
NPT (in.):	1/2
Finish:	Black Teflon, Brass, Chrome, Polyester
Temp. Rating (°F):	135, 155, 175, 200, 286
Temp. Rating (°C):	57, 68, 79, 93, 141
Certification Type:	FM Approved

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New/Updated Product Listing:	Yes

Primary Class of Work:	2012-AS, Control Mode, Sidewall
Listing Country:	India
Sprinkler Category:	Non Storage
K:	5.6
Type:	Horizontal Sidewall
Response:	SR - Standard Response
Element:	5 mm
NPT (in.):	1/2
Finish:	Black Teflon, Brass, Chrome, Polyester
Temp. Rating (°F):	135, 155, 175, 200, 286
Temp. Rating (°C):	57, 68, 79, 93, 141
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K5.6 (K80 metric) Pendent

SF321

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Company Address:	202 "A", Dhanraj Industrial Estate, Sunmill Road ,Lower Parel (West), Mumbai 400013 , India
Company Website:	http://safexfire.com
New/Updated Product Listing:	Yes

Primary Class of Work:	2017-AS, Control Mode, Pendent
Listing Country:	India
Sprinkler Category:	Non Storage
K:	5.6
Type:	Pendent
Response:	QR - Quick Response
Element:	3 mm
NPT (in.):	1/2
Finish:	Black Teflon, Brass, Chrome, Polyester
Temp. Rating (°F):	135, 155, 175, 200, 286
Temp. Rating (°C):	57, 68, 79, 93, 141
Certification Type:	FM Approved

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K5.6 (K80 metric) Pendent

SF320

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Company Address:	202 "A", Dhanraj Industrial Estate, Sunmill Road ,Lower Parel (West), Mumbai 400013 , India
Company Website:	http://safexfire.com
New/Updated Product Listing:	Yes

Primary Class of Work:	2017-AS, Control Mode, Pendent
Listing Country:	India
Sprinkler Category:	Non Storage
K:	5.6
Type:	Pendent
Response:	SR - Standard Response
Element:	5 mm
NPT (in.):	1/2
Finish:	Black Teflon, Brass, Chrome, Polyester
Temp. Rating (°F):	135, 155, 175, 200, 286
Temp. Rating (°C):	57, 68, 79, 93, 141
Certification Type:	FM Approved

QR	Quick Response
FR	Suppression Mode Fast Response

Heat responsive elements are identified as either **Fusible** or, in the case of bulb type elements, with the nominal bulb diameter in millimeters (e.g., 2.5 mm, 3 mm, etc.)

Nominal thread sizes are expressed using American National Standard Taper Pipe Threads (NPT). Sprinklers intended for sale outside the United States shall have threads which are in compliance with other national or international standards as permitted at the sole discretion of FM Approvals.

Sprinkler finishes are identified as follows:

<i>Finish</i>	<i>Description</i>
Brass	Unfinished, Plain Brass or Bronze
Chrome	Chrome Plated
Black Plated	Black Plated
Bright Brass	Bright Brass Plated
Zinc	Zinc Plated
NICOTEF	Nickel-Teflon Coated
Lead	Lead Coated (for extra corrosion protection in some atmospheres)
Wax	Wax Coated (for extra corrosion protection in some atmospheres)
Wax Over Lead	Wax Over Lead Coated (for extra corrosion protection in some atmospheres)
Wax Over Polyester	Wax Over Polyester Coated (for extra corrosion protection in some atmospheres)
Polyester	Polyester Coated (any color)
Painted	Painted (any color)

Sprinkler nominal temperature ratings are expressed in degrees Fahrenheit (°F) followed by the equivalent in degrees Celsius (°C).

K5.6 (K80 metric) Standard Spray Sprinklers

Control mode standard spray sprinklers have deflectors specially designed to discharge water in all directions below the plane of the deflector. Thus, the spray pattern is roughly that of a half sphere filled with water spray. Little or no water is discharged upward to wet the ceiling. Upright control mode sprinklers are not intended for use in the pendent position. FM Approved pendent control mode sprinklers are required. Control mode automatic sprinklers with a nominal discharge coefficient of $5.6 \text{ gal/min}/(\text{psi})^{1/2}$ are similar to control mode sprinklers with a nominal discharge coefficient of $2.8 \text{ gal/min}/(\text{psi})^{1/2}$, except that they discharge 100% more water at the same discharge pressure.

K5.6 (K80 metric) Upright (Class 2016)

SF311

Company Name:	Safex Fire Services Ltd
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Company Website:	http://safexfire.com
New/Updated Product Listing:	Yes
Primary Class of Work:	2016-AS, Control Mode, Upright
Listing Country:	India
Sprinkler Category:	Control Mode
K:	5.6

Type:	Upright
Response:	QR - Quick Response
Element:	3 mm
NPT (in.):	1/2
Finish:	Black Teflon, Brass, Chrome, Polyester
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Certification Type:	FM Approved

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Recessed Horizontal Sidewall

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K5.6 (K80 metric) Upright

SF310

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New/Updated Product Listing:	Yes

Primary Class of Work:	2016-AS, Control Mode, Upright
Listing Country:	India
Sprinkler Category:	Non Storage
K:	5.6
Type:	Upright
Response:	SR - Standard Response
Element:	5 mm
NPT (in.):	1/2
Finish:	Black Teflon, Brass, Chrome, Polyester
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