

SF310 Standard Response, Standard Coverage

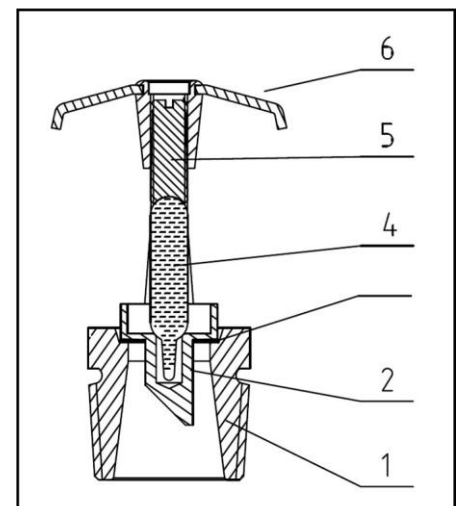
SF311 Quick Response, Standard Coverage

General Description

The SAFEX Upright Fire Sprinklers, 5.6Kfactor, Standard Response (SF310), Quick Response (SF311) are designed for use in light and ordinary hazards. The temperature response is standard response (5mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The upright sprinklers are to be installed in the upright position.

Components

1. Frame: Bronze Forging UNS-C46500
2. Pip cap: Brass HPb59-1
3. Sealing Assembly: Teflon coated
Stainless Steel Spring Washer
4. Glass Bulb: JOB G5 For SF310
JOB F3 For SF311
5. Compression Screw: Bronze UNS-C3604
6. Deflector: Brass H62



TECHNICAL DATA

Approvals: FM Approved
 Minimum Operating Pressure: 7psi (0.5bar)
 Maximum Working Pressure: 175psivxc (12 bar)
 Factory Tested Hydrostatically to 500psi
 (35 bar)
 Thread Size: 1/2" NPT, 15mm BSPT, or can be provided on special request
 Nominal K-Factor: 5.6 U. S (80.6 Metric)
 Also available in Brass and White colour.

SPRINKLER FINISH



OPERATION

The glass bulb contains a fluid which expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass bulb, allowing the sprinkler to activate and water to flow. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

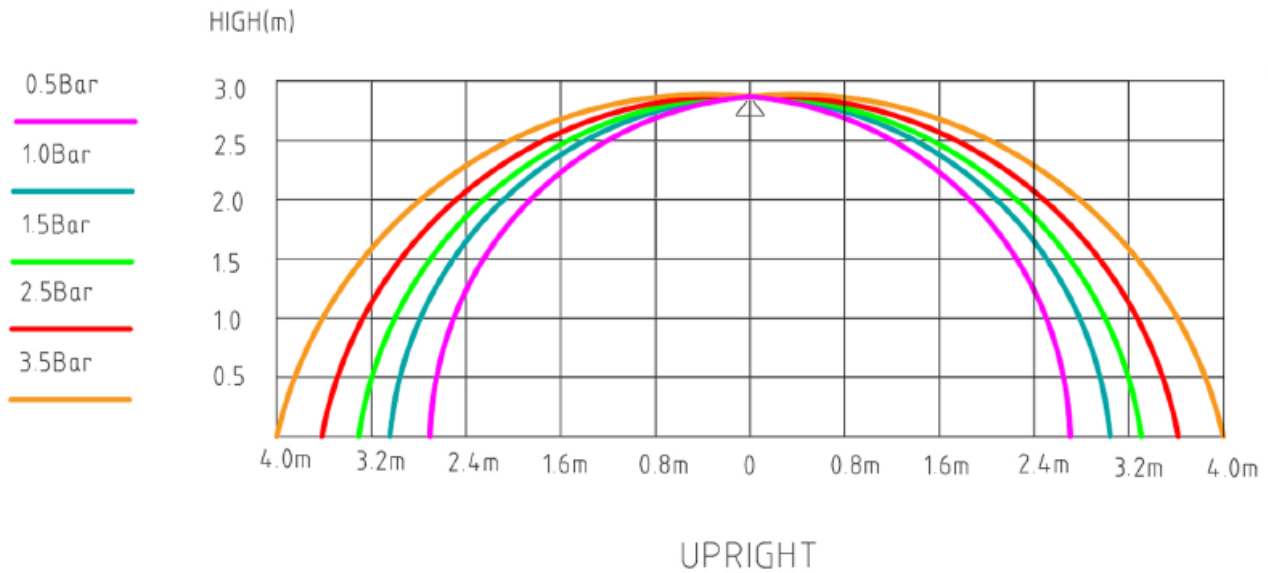
TEMPERATURE RATING

Temperature	Classification	Bulb Color
135°F/57°C	Ordinary	Orange
155°F/68°C	Ordinary	Red
175°F/79°C	Intermediate	Yellow
200°F/93°C	Intermediate	
286 °F/141°C	High	Blue

DESIGN

The SAFEX sprinkler described herein must be installed and maintained in accordance with latest standards of the National Fire Protection Association (NFPA) or to the standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and devices in proper operating condition.

DISTRIBUTION



INSTALLATION

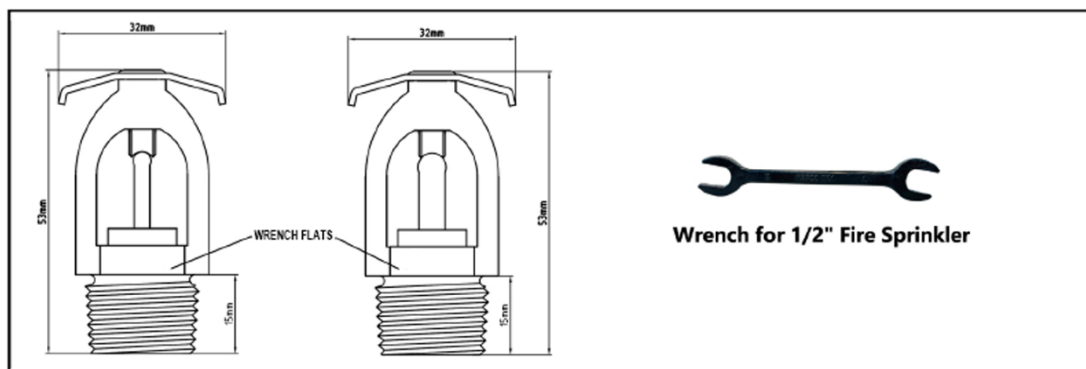
Refer to appropriate NFPA13 installation standards

Notes: Do not install the sprinkler if the glass bulb is cracked or there is a loss of liquid from the bulb. A leak-tight 1/2 in. NPT sprinkler joint should be obtained by applying a minimum to maximum torque of 7 to 14 lb-ft (9.5 to 19.0 N•m). Higher levels of torque can distort the sprinkler Inlet with consequent leakage or impairment of the sprinkler. The SF310 /SF311 Upright Sprinklers must be installed in accordance with the following instructions.

Step 1. Prior to installing the sprinklers, if applicable, verify that the face of the sprinkler fitting is within the proper range of distance, which can be accommodated by the type of escutcheon being used.

Step 2. With pipe-thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

Step 3. Tighten the sprinkler into the sprinkler fitting using only KS 1007 type Sprinkler Wrench. Apply the Sprinkler Wrench to the wrench flats. Torque sprinklers 7 to 14 lb-ft (9.5 to 19.0 N.m)



CARE AND MAINTENANCE

The SAFEX brand Upright 5.6 K-factor Fire Sprinklers must be maintained and serviced in accordance with this section.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection system from the proper authorities and notify all personnel who may be affected by this action.

The owner must assure that the sprinklers are not used for hanging any objects and that the sprinklers are only cleaned by means of gently dusting with a feather duster; otherwise, non-operation in the event of a fire or inadvertent operation may result.

Sprinklers which are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic sprinklers must never be painted, plated, coated, or other-wise altered after leaving the factory. Modified sprinklers must be replaced.

Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the sprinklers before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb.

Thereafter, annual inspections per NFPA 25 are required; however, instead of inspecting from the floor level, a random sampling of close-up visual inspections should be made.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or product manufacturer with any questions.

SF320 Standard Response, Standard Coverage

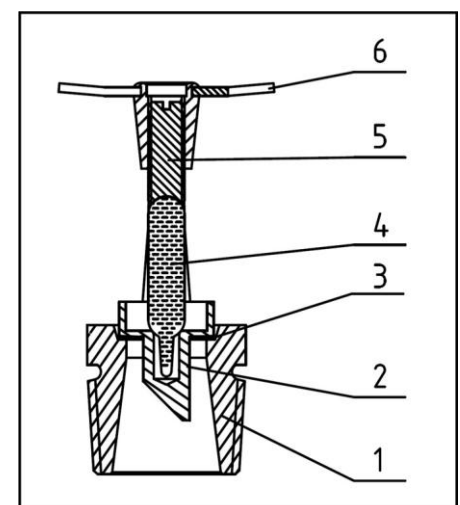
SF321 Quick Response, Standard Coverage

General Description

The SAFEX Pendent Fire Sprinklers, 5.6K-factor, Standard Response (SF320), Quick Response (SF321) are designed for use in light and ordinary hazards. The temperature response is standard response (5mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The pendent sprinklers are to be installed in the pendent position.

Components

1. Frame: Bronze Forging UNS-C46500
2. Pip cap: Brass HPb59-1
3. Sealing Assembly: Teflon@ coated
Stainless Steel Spring Washer
4. Glass Bulb: JOB G5 For SF320
JOB F3 For SF321
5. Compression Screw: Bronze UNS-C3604
6. Deflector: Brass 1462



TECHNICAL DATA

Approvals: FM Approved
 Minimum Operating Pressure: 7psi (0.5bar) Maximum Working Pressure: 175psi (12 bar) Factory Tested Hydrostatically to 500psi (35 bar)
 Thread Size: 1/2" NPT, 15mm BSPT, or can be provided on special request
 Nominal K-Factor: 5.6 U. S (80.6 Metric)
 Also available in Brass and White colours.

SPRINKLER FINISH



OPERATION

The glass bulb contains a fluid which expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass bulb, allowing the sprinkler to activate and water to flow. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

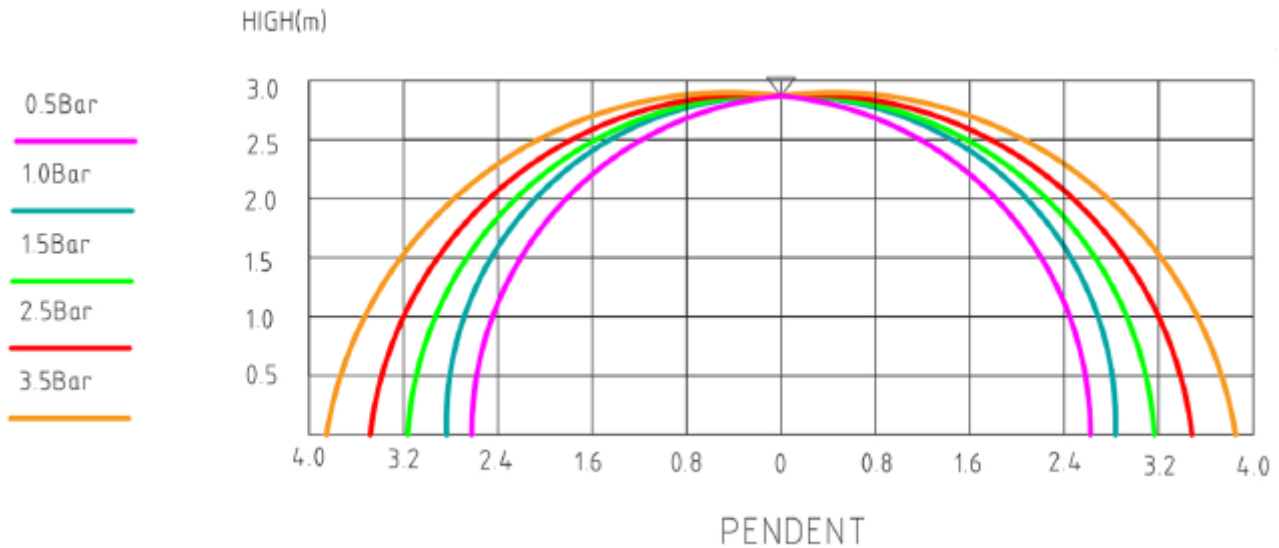
TEMPERATURE RATING

Temperature	Classification	Bulb Color
135°F/57°C	Ordinary	Orange
155°F/68°C	Ordinary	Red
175°F/79°C	Intermediate	Yellow
200°F/93°C	Intermediate	
286 °F/141°C	High	Blue

DESIGN

The SAFEX sprinkler described herein must be installed and maintained in accordance with latest standards of the National Fire Protection Association (NFPA) or to the standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and devices in proper operating condition.

DISTRIBUTION



INSTALLATION

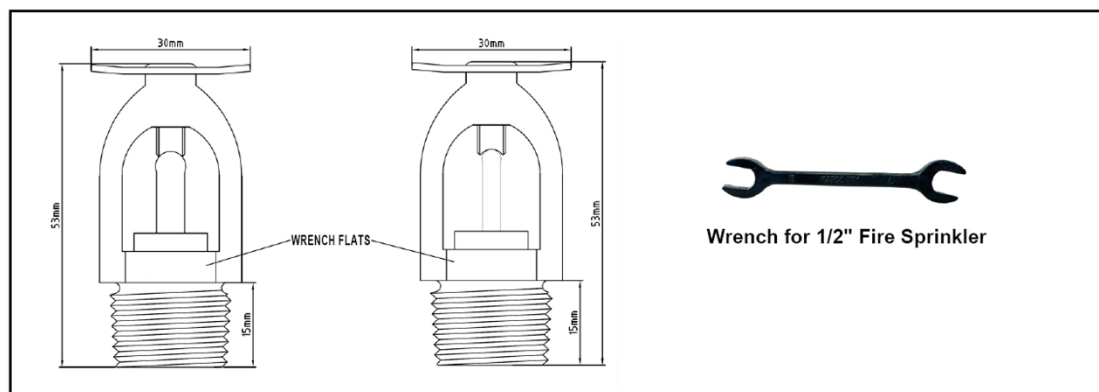
Refer to appropriate NFPA13 installation standards

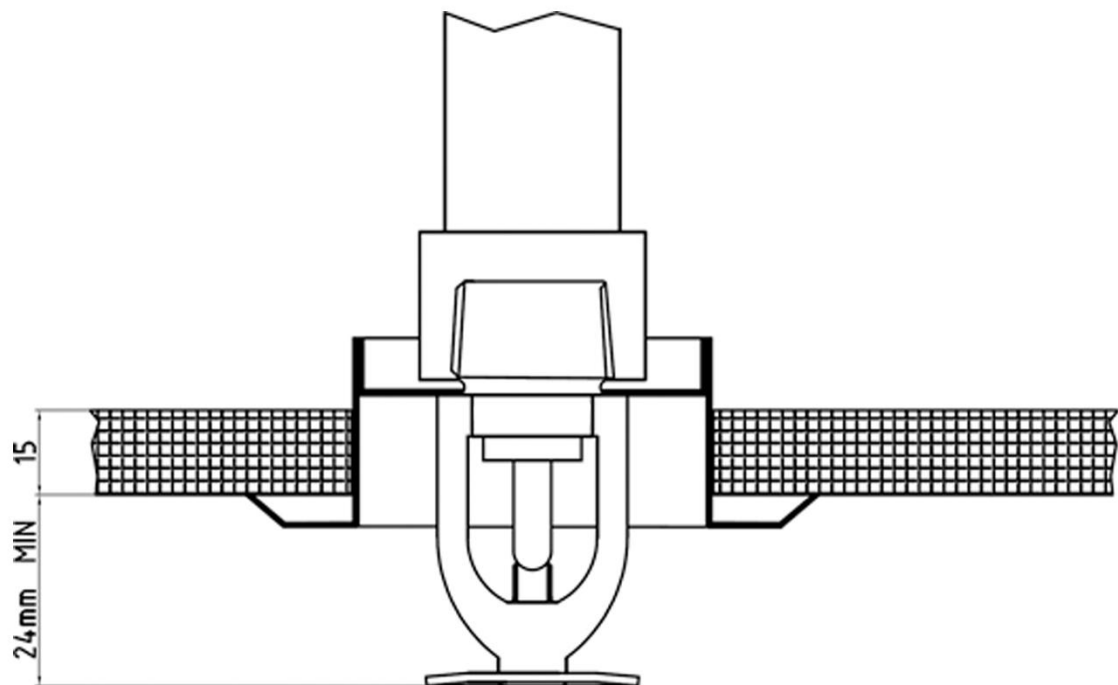
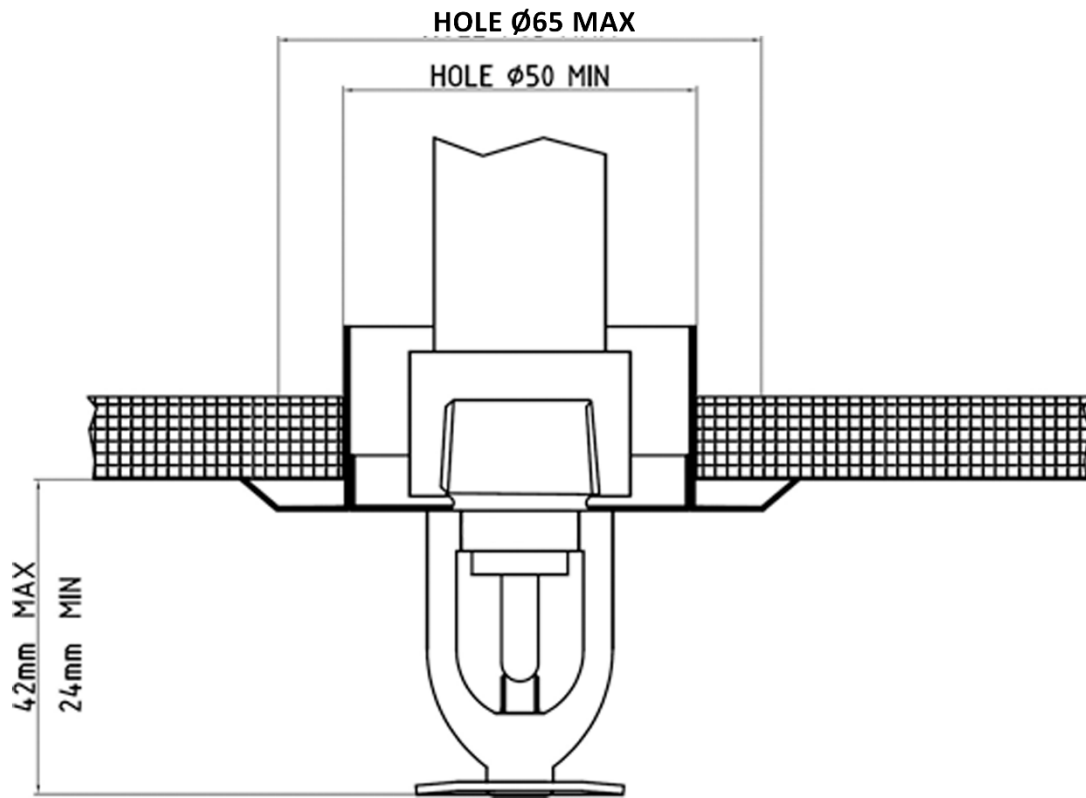
Notes: Do not install the sprinkler if the glass bulb is cracked or there is a loss of liquid from the bulb. A leak-tight 1/2 in. NPT sprinkler joint should be obtained by applying a minimum to maximum torque of 7 to 14 lb-ft (9.5 to 19.0 N•m). Higher levels of torque can distort the sprinkler Inlet with consequent leakage or impairment of the sprinkler. The SF320 /SF321 Pendent Sprinklers must be installed in accordance with the following instructions.

Step 1. Install Pendent Sprinklers in the Pendent position.

Step 2. With pipe-thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

Step 3. Tighten the sprinkler into the sprinkler fitting using only KS 1007 type Sprinkler Wrench. Apply the Sprinkler Wrench to the wrench flats. Torque sprinklers 7 to 14lb-ft (9.5 to 19.0 N.m)





CARE AND MAINTENANCE

The SAFEX brand Pendent 5.6 K-factor Fire Sprinklers must be maintained and serviced in accordance with this section.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection system from the proper authorities and notify all personnel who may be affected by this action.

The owner must assure that the sprinklers are not used for hanging any objects and that the sprinklers are only cleaned by means of gently dusting with a feather duster; otherwise, non-operation in the event of a fire or inadvertent operation may result.

Sprinklers which are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic sprinklers must never be painted, plated, coated, or other-wise altered after leaving the factory. Modified sprinklers must be replaced.

Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the sprinklers before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb.

Thereafter, annual inspections per NFPA 25 are required; however, instead of inspecting from the floor level, a random sampling of close-up visual inspections should be made.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or product manufacturer with any questions.

SF340 Standard Response, Standard Coverage

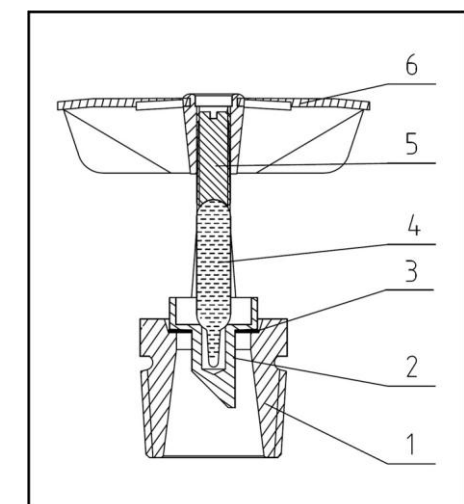
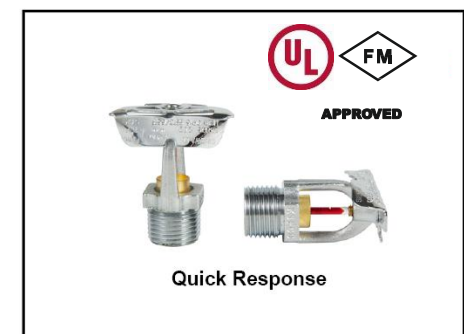
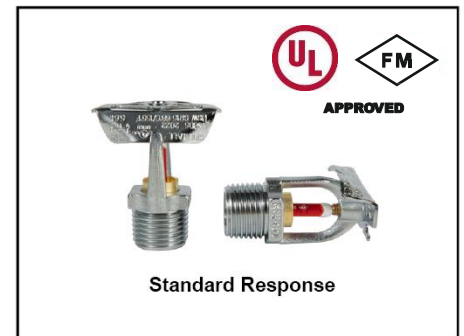
SF341 Quick Response, Standard Coverage

General Description

The SAFEX Horizontal Sidewall Fire Sprinklers, 5.6K-factor, Standard Response (SF340), Quick Response (SF341) are designed for use in light and ordinary hazards. The temperature response is standard response (5mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The Horizontal Sidewall sprinklers are to be installed in the Horizontal Sidewall position.

Components

1. Frame: Bronze Forging UNS-C46500
2. Pip cap: Brass HPb59-1
3. Sealing Assembly: Teflon coated
Stainless Steel Spring Washer
4. Glass Bulb: JOB G5 For SF340
JOB F3 For SF341
5. Compression Screw: Bronze UNS-C3604
6. Deflector: Brass H62



TECHNICAL DATA

Approvals: FM Approved
 Minimum Operating Pressure: 7psi (0.5bar)
 Maximum Working Pressure: 175psi (12 bar)
 Factory Tested Hydrostatically to 500psi (35 bar)
 Thread Size: 1/2" NPT, 15mm BSPT, or can be provided on special request
 Nominal K-Factor: 5.6 U. S (80.6 Metric)
 Also available in Brass and White colour.

SPRINKLER FINISH



OPERATION

The glass bulb contains a fluid which expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass bulb, allowing the sprinkler to activate and water to flow. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

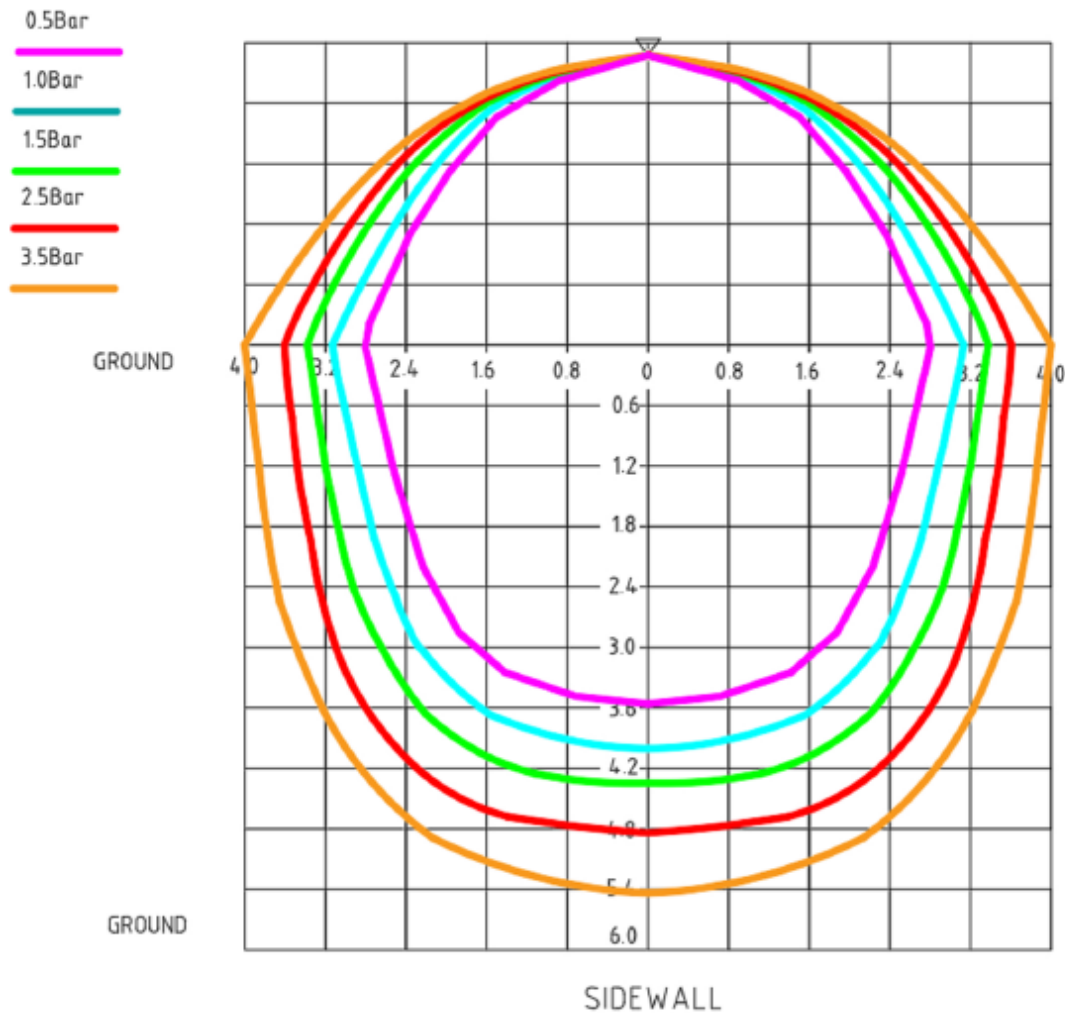
TEMPERATURE RATING

Temperature	Classification	Bulb Color
135°F/57°C	Ordinary	Orange
155°F/68°C	Ordinary	Red
175°F/79°C	Intermediate	Yellow
200°F/93°C	Intermediate	
286 °F/141°C	High	Blue

DESIGN

The SAFEX sprinkler described herein must be installed and maintained in accordance with latest standards of the National Fire Protection Association (NFPA) or to the standard of any other authorities having jurisdiction. The owner is solely responsible for maintaining their fire protection system and devices in proper operating condition.

DISTRIBUTION



INSTALLATION

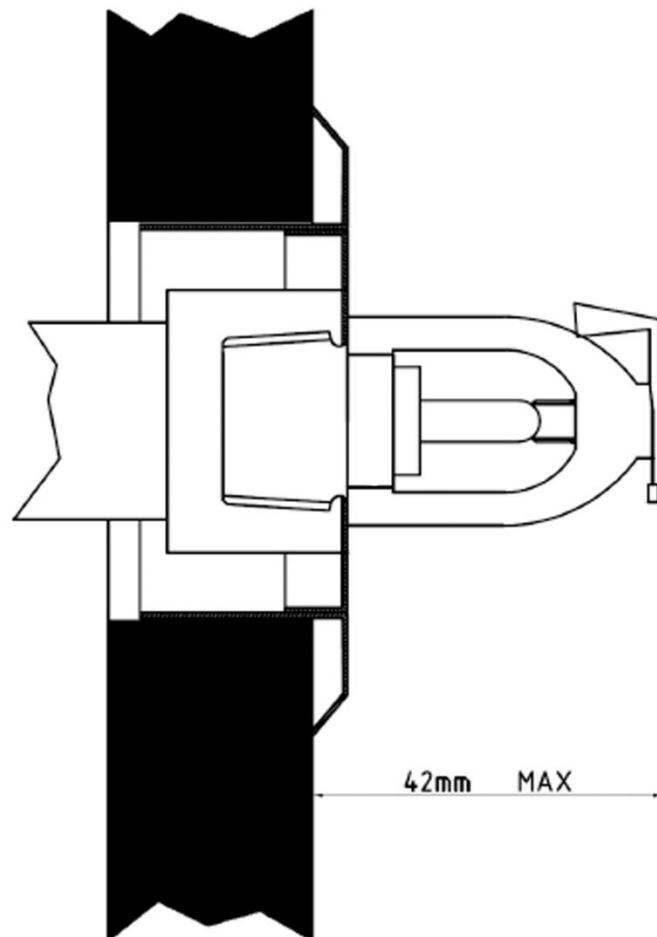
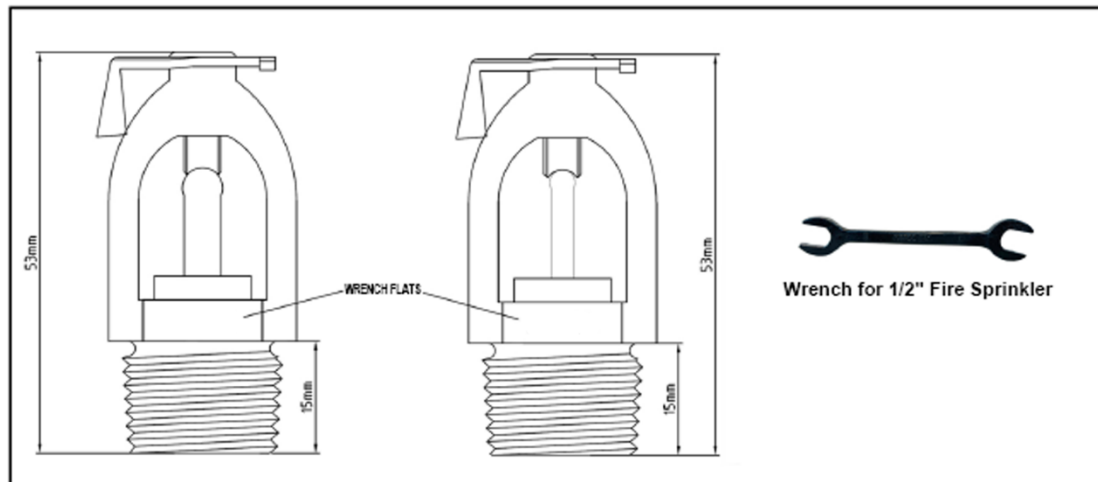
Refer to appropriate NFPA13 installation standards

Notes: Do not install the sprinkler if the glass bulb is cracked or there is a loss of liquid from the bulb. A leak-tight 1/2 in. NPT sprinkler joint should be obtained by applying a minimum to maximum torque of 7 to 14 lb-ft (9.5 to 19.0 N•m). Higher levels of torque can distort the sprinkler Inlet with consequent leakage or impairment of the sprinkler. The SF805 /SF806 Pendent Sprinklers must be installed in accordance with the following instructions.

Step 1. Prior to installing the sprinklers, if applicable, verify that the face of the sprinkler fitting is within the proper range of distance, which can be accommodated by the type of escutcheon being used. The Model SF340/SF341 Horizontal Sidewall Sprinklers must be installed with the centerline of waterway horizontal and perpendicular to a back wall surface. It is recommended that a lightweight spirit level (less than 1 pound), be used to level the sprinkler fitting, as shown in Figure D and that a square be used to check perpendicularity of the waterway centreline to the mounting surface.

Step 2. With pipe-thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

Step 3. Tighten the sprinkler into the sprinkler fitting using only KS 1007 type Sprinkler Wrench. Apply the Sprinkler Wrench to the wrench flats. Torque sprinklers 7 to 141b-ft (9.5 to 19.0 N.m)



CARE AND MAINTENANCE

The SAFEX brand Pendent 5.6 K-factor Fire Sprinklers must be maintained and serviced in accordance with this section.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection system from the proper authorities and notify all personnel who may be affected by this action.

The owner must assure that the sprinklers are not used for hanging any objects and that the sprinklers are only cleaned by means of gently dusting with a feather duster; otherwise, non-operation in the event of a fire or inadvertent operation may result.

Sprinklers which are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic sprinklers must never be painted, plated, coated, or other-wise altered after leaving the factory. Modified sprinklers must be replaced.

Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the sprinklers before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb.

Thereafter, annual inspections per NFPA 25 are required; however, instead of inspecting from the floor level, a random sampling of close-up visual inspections should be made.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or product manufacturer with any questions.