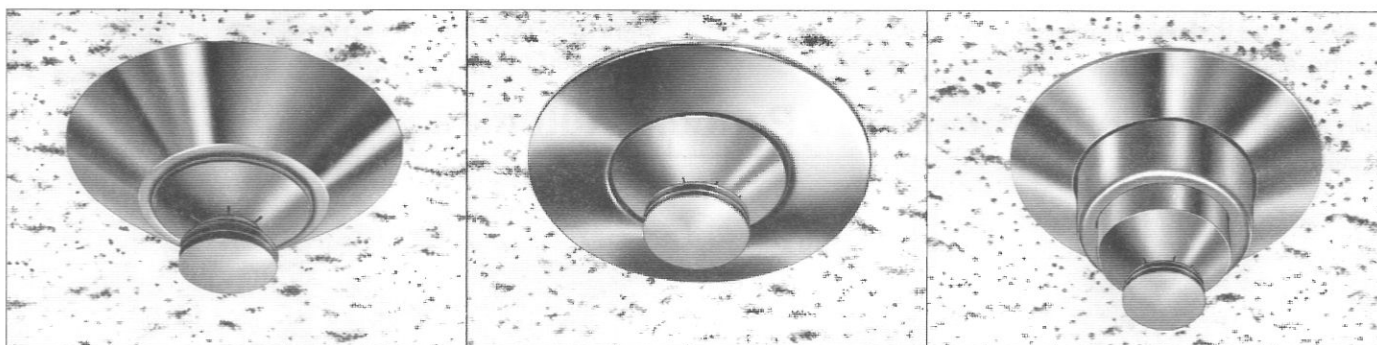


Reliable®

Model ZX-1 Quick Response Pendent Horizontal Sidewall Automatic Sprinkler



Conical Escutcheon

Flat Escutcheon

Two Piece Escutcheon

Product Description

The Model ZX-1 Quick Response Sprinkler is a fusible solder pellet type automatic sprinkler.

This sprinkler has demonstrated a response time in laboratory tests which is five to ten times faster than standard response sprinklers.

This quick response enables Model ZX-1 Sprinklers to apply water to a fire much faster than standard response sprinklers of the same temperature rating.

Modern architectural designs require sprinklers that provide not only the best fire protection but also an attractive appearance. The Model ZX-1 meets both criteria. The flush style of this sprinkler provides for an aesthetically pleasing installation by concealing all of the sprinkler operating parts with the exception of the finned sensor. Only when the solder pellet melts does the operating mechanism release from the sprinkler allowing the deflector to be extended for distributing the discharging water.

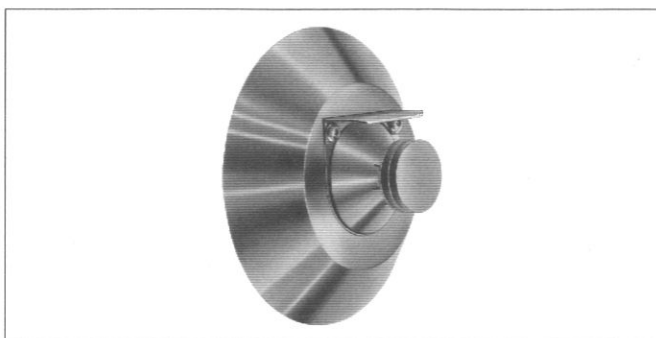
The Model ZX-1 Pendent Sprinkler is to be ordered with one of three escutcheons—a conical, a flat or a two

piece conical that is highly adjustable—all of which appeal to aesthetic concerns while resolving difficult ceiling installations.

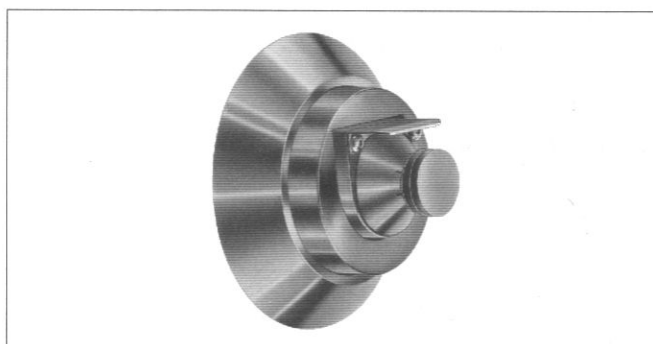
The Model ZX-1 Horizontal Sidewall Sprinkler is to be ordered with either of two escutcheons—a conical or a two piece that is highly adjustable—both of which resolve aesthetic concerns.

Application and Installation

The Model ZX-1 is a UL Listed Quick Response Sprinkler for use with fixed fire protection systems: Wet, Dry, Deluge or Preaction. Care must be exercised that the orifice sizes, temperature ratings, and sprinkler spacings are in accordance with this bulletin and the latest published standards of the National Fire Protection Association or the approving authority having jurisdiction. Quick response sprinklers are intended for standard area coverage and standard water densities as specified in NFPA 13. Quick response sprinklers and standard response sprinklers should not be intermixed.



Conical Escutcheon



Two Piece Escutcheon

These sprinklers must be installed with a Reliable Model ZX Sprinkler Wrench. Any other type of wrench may damage the sprinkler which is designed to allow wrenching with the shipping cap installed, thereby providing further protection. Shipping caps should be removed only after ceilings and walls are finished and when escutcheons are being installed. When Model ZX-1 sprinklers are ordered, sprinklers and escutcheons are packaged separately. Model ZX escutcheons are the only escutcheons that can be used with these sprinklers. The use of any other escutcheon will void all approvals and negate all warranties. Also, each installed sprinkler must include one of the escutcheons.

Use care to avoid damaging the sprinklers before, during and after installation. Inspect all installed sprin-

klers to insure the sensor fins and the horizontal sidewall deflector shelf have not been damaged. Refer to Figs. 4 and 5 for the correct horizontal sidewall deflector shelf angles. Replace all sprinklers which have any sign of damage.

Maintenance

Model ZX-1 Quick Response Sprinklers should be inspected quarterly, and the sprinkler system maintained in accordance with NFPA-25. Do not clean the sprinklers with soap, ammonia, or other cleaning fluids. Remove any sprinkler which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers.

Model ZX-1 Quick Response Pendent Automatic Sprinkler

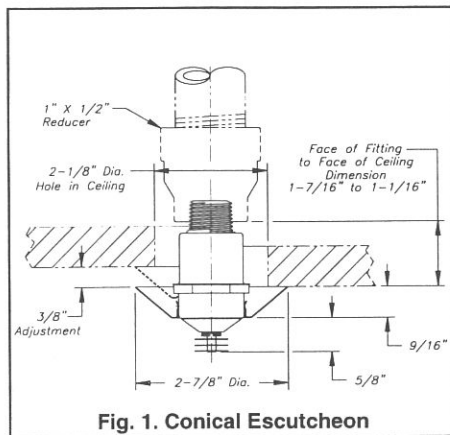


Fig. 1. Conical Escutcheon

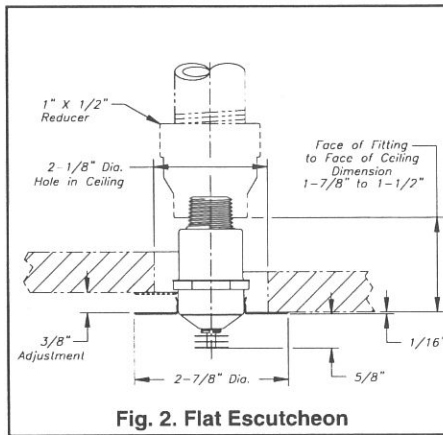


Fig. 2. Flat Escutcheon

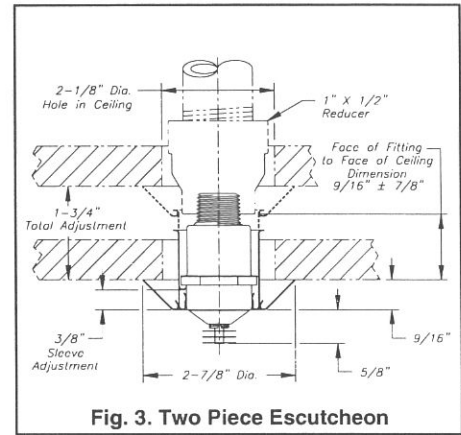


Fig. 3. Two Piece Escutcheon

Standard Finishes	
Sprinkler	Escutcheon
Chrome Plated	Chrome Plated
Chrome Plated/Enamel Painted ⁽¹⁾	Enamel Painted ⁽¹⁾
Bright Brass Plated	Bright Brass Plated
	Black Plated

⁽¹⁾ White and Off White are standard colors. Other colors and finishes are available on special order. Consult factory for details.

Approval Organizations

1. Underwriters Laboratories, Inc.
2. Underwriters' Laboratories of Canada
3. NYC MEA 258-93-E
4. Verband der Schadenversicherer e.V.
5. Loss Prevention Council

ULI Listing Category

Sprinklers Automatic & Open
Quick Response Sprinklers

Technical Data

Classification	Sprinkler Rating		Maximum Ceiling Temperature	
	°F	°C	°F	°C
Ordinary	165	74	100	38

ULI Guide Number

VNIV

Installation Wrench

Model ZX Pendent Sprinkler Wrench

Sprinkler Markings

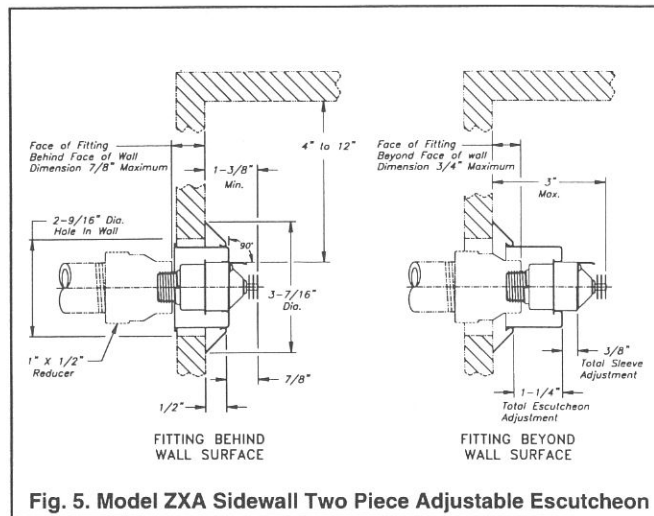
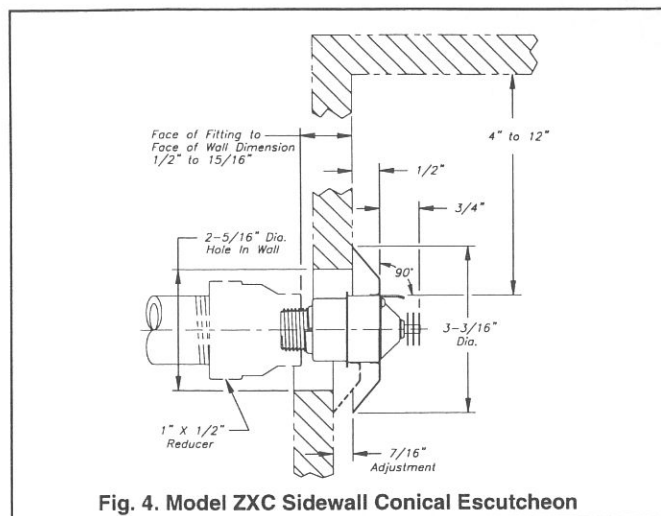
RASCO PEND ZX-1 QR
RASCO PEND ZX-1 QR 7/16

Note: Approvals are for ordinary hazard, except small orifice sprinklers which are limited to light hazard occupancies.

Installation Data

Sprinkler Type	"K" Factor		Sprinkler Height	Approval Organizations
	US	Metric		
Pendent				
1/2" Standard (15mm) Orifice with 1/2" NPT (R 1/2) Thread	5.4	77.8	2 29/32"	1,2,3,4,5
7/16" Small Orifice with 1/2" NPT Thread	4.1	59.0	2 29/32"	1,2,3

Model ZX-1 Quick Response Horizontal Sidewall Automatic Sprinkler



Standard Finishes	
Sprinkler	Escutcheon
Chrome Plated	Chrome Plated
Chrome Plated/Enamel Painted ⁽¹⁾	Enamel Painted ⁽¹⁾
Bright Brass Plated	Bright Brass Plated
	Black Plated

⁽¹⁾ White and Off White are standard colors. Other colors and finishes are available on special order. Consult factory for details.

Approval Organizations

1. Underwriters Laboratories, Inc.
2. Underwriters' Laboratories of Canada
3. NYC MEA 258-93-E

ULI Listing Category

Sprinklers Automatic & Open
Quick Response Sprinklers
Ordinary Hazard

Technical Data

Classification	Sprinkler Rating		Maximum Ceiling Temperature	
	°F	°C	°F	°C
Ordinary	165	74	100	38

ULI Guide Number

VNIV

Installation Wrench

Model ZX Sidewall Sprinkler Wrench

Sprinkler Markings

RASCO HSW ZX-1 QR

Installation Data

Sprinkler Type	"K" Factor		Sprinkler Height	Approval Organizations
	US	Metric		
Horizontal Sidewall	5.4	77.8	2 5/8"	1,2,3
1/2" Standard Orifice with 1/2" NPT Thread				

Ordering Information

Specify:

1. Model Type
2. Orifice Size
3. Escutcheon Type
4. Sprinkler Finish
5. Escutcheon Finish

NOTE:

Sprinklers and escutcheons are packaged separately.

U.S. Patent No. 4,766,961

Reliable...For Complete Protection

Reliable offers a wide selection of sprinkler components. Following are some of the many precision-made Reliable products that guard life and property from fire around the clock.

- Automatic sprinklers
- Flush automatic sprinklers
- Recessed automatic sprinklers
- Concealed automatic sprinklers
- Adjustable automatic sprinklers
- Dry automatic sprinklers
- Intermediate level sprinklers
- Open sprinkler
- Spray nozzles
- Alarm valves
- Retarding chambers
- Dry pipe valves
- Accelerators for dry pipe valves
- Mechanical sprinkler alarms
- Electrical sprinkler alarm switches
- Water flow detectors
- Deluge valves
- Detector check valves
- Check valves
- Supertrol electrical system
- Sprinkler emergency cabinets
- Sprinkler Wrenches
- Sprinkler escutcheons and guards
- Inspectors test connections
- Sight drains
- Ball drips and drum drips
- Control valve seals
- Air maintenance devices
- Air compressors
- Pressure gauges
- Identification signs
- Fire department connection

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 70 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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Sales Offices

Sales Fax

Corporate Offices

Internet Address



Revision lines indicate updated or new data
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