

## Clean Agent Suppression Systems



#### DESCRIPTION: NOZZLE

The function of the Fike Nozzle, in a fire extinguishing system, is to distribute the Clean Agent in a uniform, predetermined pattern and concentration. The nozzles are designed to complete the discharge of Clean Agent in 10 seconds, or less, when installed within the design limitations of the Fike Design Manual, P/N 06-202 or 06-215.

Fike Nozzles are available in three sizes: 1" (25mm), 1 1/2" (40mm) and 2" (50mm). Each nozzle comes in two configurations: 180 and 360 degree distribution patterns. As an option, deflector plates are available where sensitive ceiling tiles must be protected.

#### ARCHITECT SPECIFICATIONS

The Nozzle used to distribute the Clean Agent shall be a Fike Series 80. The nozzle shall be available in 1" (25mm), 1 1/2" (40mm) and 2" (50mm) sizes. Each nozzle is available in two styles: 180 and 360 degree distribution patterns. The nozzle used shall be provided with internal pipe threads that correspond to the nozzle size. Deflector plates shall be available, as an option, where sensitive ceiling plates must be protected.

The nozzle used shall be Underwriters Laboratories listed and Factory Mutual approved. **(See back of this sheet for nozzle size/area coverage)**

The Fike Nozzle is provided with pipe threads that correspond to the nozzle size. With this arrangement, the Fike Nozzle can be installed directly at the Clean Agent container or remotely, at the end of a discharge piping system.

80-1113 THRU -1118  
U.L. Listed - Ex 4623  
U.L.C. Listed - CEx624  
FM Approved - 0Y4A8.AF



#### DESCRIPTION: DEFLECTOR PLATE

The function of the Fike Deflector Plate, in a fire extinguishing system, is to aid in the quick and effective distribution of Clean Agent, into any hazard area, without damage to ceiling tiles. The Deflector Plate directs the flow of the Clean Agent downward without severely limiting area coverage. When used properly, the deflector plates will effectively protect the ceiling tiles and help to prevent a loss of Clean Agent supply due to the displacement or destruction of ceiling tiles.

Fike Deflector Plates are available in three sizes: 1" (25mm) (P/N 80-1061), 1 1/2" (40mm) (P/N 80-1062) and 2" (50mm) (P/N 80-1062). Each size can be used with either 180 or 360 degree nozzles.

Fike Deflector Plates are made of stainless steel to prevent corrosion and provide a durable and attractive finish.

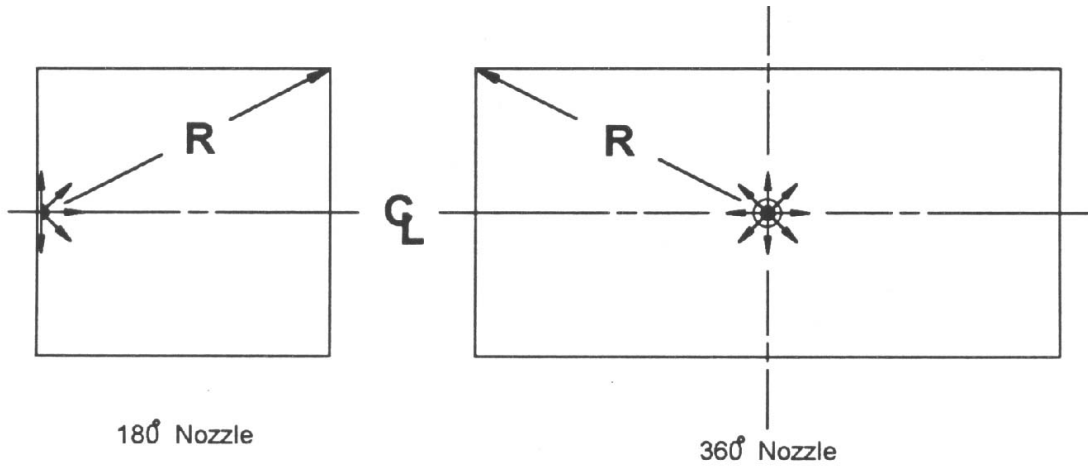
#### ARCHITECTS SPECIFICATIONS

The deflector plate used for the protection of ceiling tiles, from the discharge of Clean Agent, shall be a Fike Deflector used in conjunction with a Fike Nozzle. The deflector plate shall be available in 1" (25mm), 1 1/2" (40mm) and 2" (50mm) sizes. Each size shall be compatible with either 180 or 360 degree nozzles. The deflector plate provided shall correspond to the nozzle size used.

#### INSTALLATION

The Fike Deflector Plate is easily installed on the Fike Nozzle by simply turning in the set screws into the nozzle, slipping the deflector plate up onto the nozzle, then backing the set screws out, while holding the deflector plate firmly in place. The Fike Deflector Plate can be mounted directly below the ceiling tile or flush mounted, in the ceiling tile, for an attractive finish.

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Nozzle Type	"R" Dimension	Ceiling Height Range
180 Degree	45'-8" (13.92m)	12" to 16'-0" (30.5 cm to 4.88m)
360 Degree	29'-8" (9.04m)	12" to 16'-0" (30.5 cm to 4.88m)

**NOTES:**

- a. An allowable area coverage includes any area where the maximum coverage from the nozzle ("R" dimension) is not exceeded.
- b. Nozzles should be located on center line of hazard area.
- c. When working with ceiling heights exceeding the values tabulated above, the hazard volume must be broken down into vertically stacked hazard volumes, with heights less than the maximums shown in the table.

It is imperative that unusual applications of this nature be handled by experienced people in the field, and in most cases, operational tests should be performed before the system is put into service.

- d. Dimensions and nozzle data shown are taken from the UL listed and FM approved Design, Installation & Maintenance Manual - P/N 06-202 or 06-215.
- e. 180 and 360 degree nozzles may be placed a maximum of 1 foot (30.5cm) down from the ceiling, and 180 degree nozzles may be placed a maximum of 1 foot (30.5cm) from the wall.