

# Merit<sup>®</sup> Eliminator F

## Adjustable Nipple

Manufactured for: Central Sprinkler Company  
451 North Cannon Avenue, Lansdale, Pennsylvania 19446

### Product Description

The Eliminator Adjustable Nipple is designed for use in wet-pipe automatic sprinkler systems or in pre-action systems not subject to freezing, to provide for an adjustment in the length of the piping between the branch line fitting and the sprinkler. The adjustable nipple may be installed in the vertical or horizontal position.

The use of the Eliminator Adjustable Nipple allows the installer to adjust the nipple to the desired length, eliminating the need to manually "cut back" the nipple in the field. This results in both a significant labor savings and an attractive snug fit between the sprinkler escutcheon and the finished surface of the ceiling or wall.

The Eliminator Adjustable Nipple incorporates the following features:

1. They can be easily adjusted under full system pressure, without water leakage.
2. If "ceiling-sag" becomes a problem after initial installation, field adjustments can be made without having to shutdown and drain the system.
3. They do not need to be "locked" into their final position.
4. They do not "telescope" when subjected to water hammer, thus eliminating costly call-backs for readjustment.

5. They can be used with one-piece or two-piece escutcheons.

The Eliminator Adjustable Nipples are available in four styles and adjustment ranges.

### Technical Data

Model: Eliminator F  
Style:

Equivalent Length:

F1.150: 4.2 ft (Sch 40, C-120)

F2.150: 1.3 ft (Sch 40, C-120)

F3.150: 1.5 ft (Sch 40, C-120)

F3.175: 1.5 ft (Sch 40, C-120)

Seal: Double "O"-ring

Approvals: U.L., F.M., BSA-NYC  
(886-86-SA)

Maximum Working Pressure:

300 psi/ 20.7 bar

Factory Hydro Test: 100% at 1500 psi/

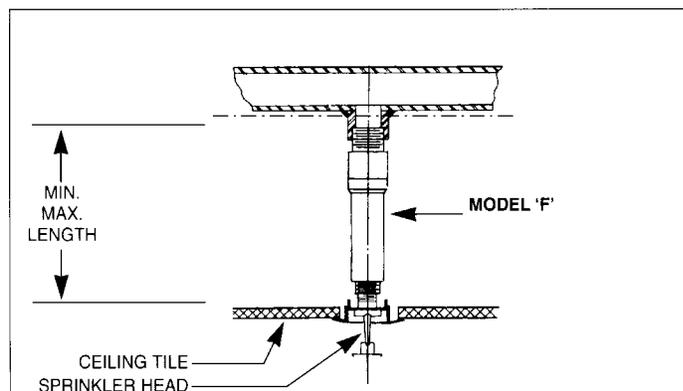
103.4 bar

## Adjustable Drop Nipple

### Installation

**Field Method #1** (with removable ceiling panels)

1. Using the proper sprinkler wrench, tighten the pre-taped sprinkler (and escutcheon) into the outlet thread of the nipple.
2. Cut a hole in the ceiling panel, with a diameter large enough to suit the sprinkler clearance requirements.



• MODEL 'F' INSTALLATION

3. With the ceiling panel in place, insert the adjustable nipple assembly through the hole in the ceiling panel and reaching above the ceiling grid, hand tighten the 1" (25 mm) N.P.T. inlet thread of the nipple assembly onto the pre-taped sprinkler line pipe nipple.
4. Again, reaching above the ceiling grid, apply a wrench to the **outer casing** of the adjustable nipple assembly and tighten using no more than 50 foot-lbs. (68 Nm) of torque. **Do not over-torque.**
5. Using the proper sprinkler wrench, adjust the nipple length to provide a snug fit between the sprinkler escutcheon and the surface of the ceiling panel.

**Field Method #2** (with fixed ceilings)

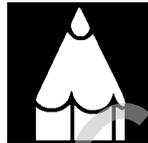
The Eliminator Adjustable Nipple must be installed prior to ceiling installation.

1. Hand-tighten the 1" (25 mm) N.P.T. inlet thread of the adjustable nipple onto the pre-taped sprinkler line pipe nipple.
2. Apply a wrench to the **outer casing** of the adjustable nipple assembly and tighten using no more than 50 foot-lbs. (68 Nm) of torque. **Do not over-torque.**
3. Hand tighten the pre-taped sprinkler (with escutcheon) into the outlet thread of the adjustable nipple.
4. Apply a pipe wrench, for "hold back", to the non-threaded portion of the inner tube of the adjustable nipple (see diagram). Using the proper sprinkler wrench, tighten the sprinkler (with escutcheon) into the adjustable nipple. A leak-tight joint requires only 7 to 14 foot-lbs. (9.5 Nm to 19 Nm) of torque. **Do not over-torque.**

5. Release the "hold back" wrench and utilizing the sprinkler wrench, adjust the sprinkler (with escutcheon) to the desired position relative to the designed finish surface of the ceiling or wall.

**CAUTION:** If prior to installation for the sprinkler line nipple, the adjustable nipple is "made-on" to the sprinkler line nipple utilizing a power machine, great care must be taken so that the joint is not torqued to more than 50 foot-lbs. (68 Nm). Torque levels over 50 foot-lbs. (68 Nm) may damage the threads and result in leakage when the sprinkler system is pressure tested or placed in service.

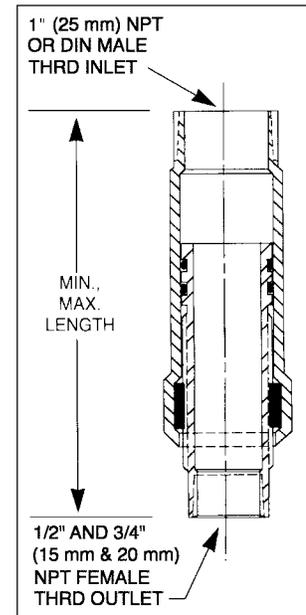
**Guarantee:** Central Sprinkler Company will repair and/or replace any products found to be defective in material or workmanship within a period of one year from date of shipment. Please refer to the current Price List for further details of the warranty.



## Ordering Information

**Ordering Information:** When placing an order, indicate the full product name. Please specify the quantity, model and size.

**Availability and Service:** Central sprinklers, valves, accessories, and other products are available throughout the U.S. and Canada, and internationally through a network of Central Sprinkler distribution centers. You may write directly to Central Sprinkler Company, or call (215) 362-0700 for the distributor nearest you.



DRAWING OF MODEL 'F'

**Conversion Table:**

- 1 inch = 25.400 mm
  - 1 foot = 0.3048 M
  - 1 pound = 0.4536 kg
  - 1 foot pound = 1.36 Nm
  - 1 psi = 6.895 Kpa = 0.0689 bar = 0.0703 kg/cm<sup>2</sup>
  - 1 U.S. Gallon = 3.785 dm<sup>3</sup> = 3.785 liters
- Conversions are approximate.



**Central Sprinkler Company**

451 North Cannon Avenue, Lansdale, PA 19446  
 Phone (215) 362-0700  
 FAX (215) 362-5385

Model No.	Inlet	Outlet	Min. Length Inch. / mm	Max. Length Inch. / mm	Max. Adjust. Inch. / mm	Weight Lbs. / kgs.
F1.150	1" Female (25 mm)	1/2" Female (15 mm)	3.500 / 88.9	4.500 / 114.3	1.00 / 25.4	0.80 / 0.36
F2.150*	1" Female (25 mm)	1/2" Female (15 mm)	4.500 / 114.3	6.500 / 165.1	2.00 / 50.8	1.00 / 0.45
F3.150	1" Female (25 mm)	1/2" Female (15 mm)	5.500 / 139.7	8.500 / 215.9	3.00 / 76.2	1.25 / 0.57
F3.175	1" Female (25 mm)	3/4" Female (20 mm)	6.820 / 150.0	10.000 / 220.0	3.00 / 76.2	1.25 / 0.57

All models are available with BSPT/DIN Threads and Zinc Chromate Plating  
 \*Special Order