

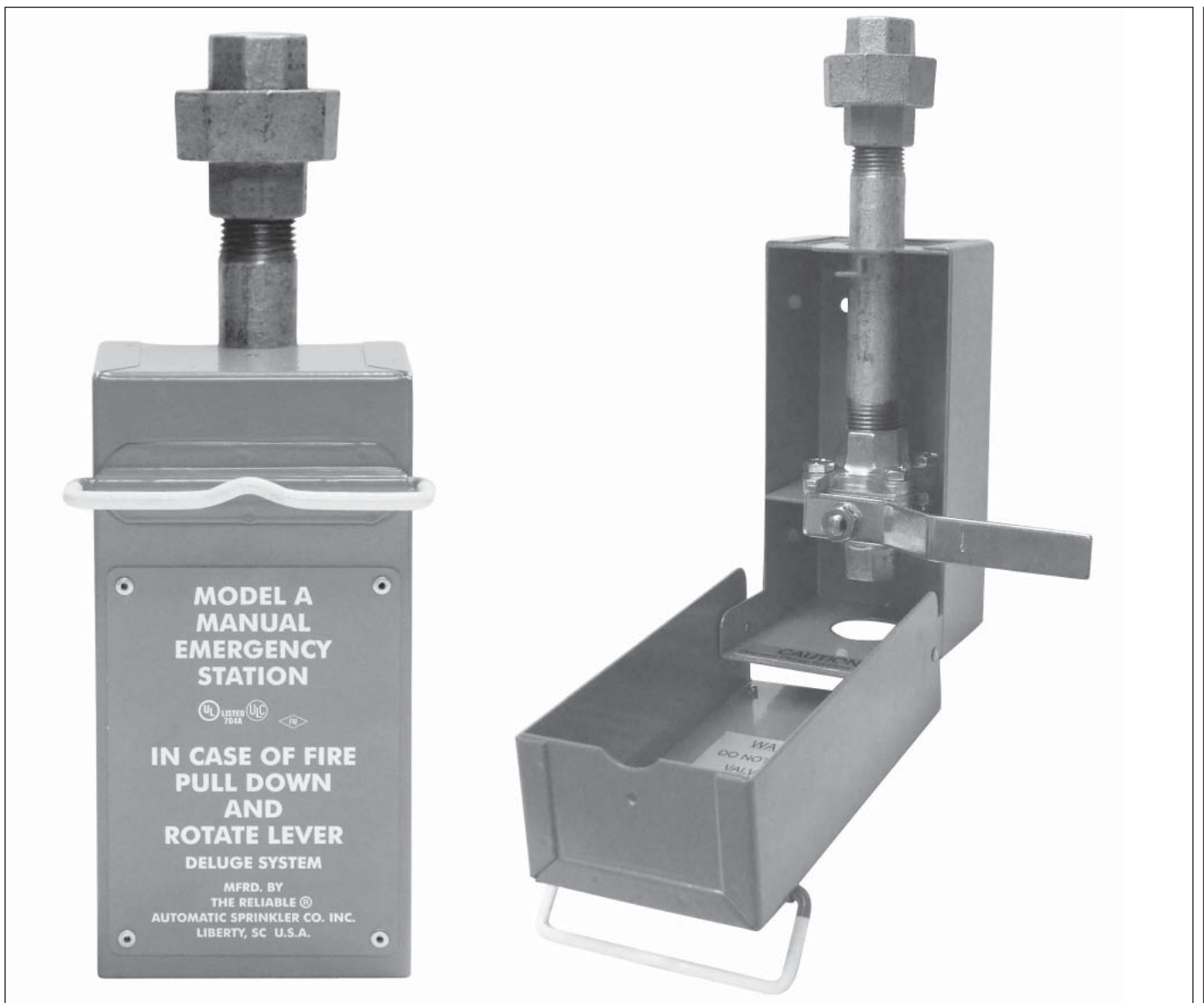
# Reliable®

## Model A Hydraulic Manual Emergency Pull Box

### Instructions for Installation, Operation, Care and Maintenance

**For Use with Reliable Deluge System Utilizing Wet or Dry Pilot Line Actuation**

Rated Working Pressure is 175 psi (12,1 bar). Listed by Underwriters Laboratories, Inc. (UL). Certified by FM Approvals and other fire insurance and governmental agencies in the United States and foreign countries.



## Installation

1. Locate Manual Pull Box in accordance with rules of Authority Having Jurisdiction.
2. Connect Outlet Side of Valve into suitable, 1/2" or larger, drain line.
3. Connect Inlet Side of Valve (side with Union) into the Wet or Dry Pilot Line of the Deluge System
4. Box should be firmly supported so that the force required to shear the breakable strut (95006901), as the cover is opened, does not overload the piping.

- E. Close the Quick Opening Valve, shut the Manual Pull Box and replace the breakable strut.
- F. Open slightly, Valve controlling water supply to Deluge Valve closing 2" Drain Valve A when water flows. Then open slowly to fully Valve controlling water supply to Deluge Valve.
- G. Close 1/4" Globe Valve C opened in step B above.

## Hydraulic Manual Emergency Pull Box Bill of Materials

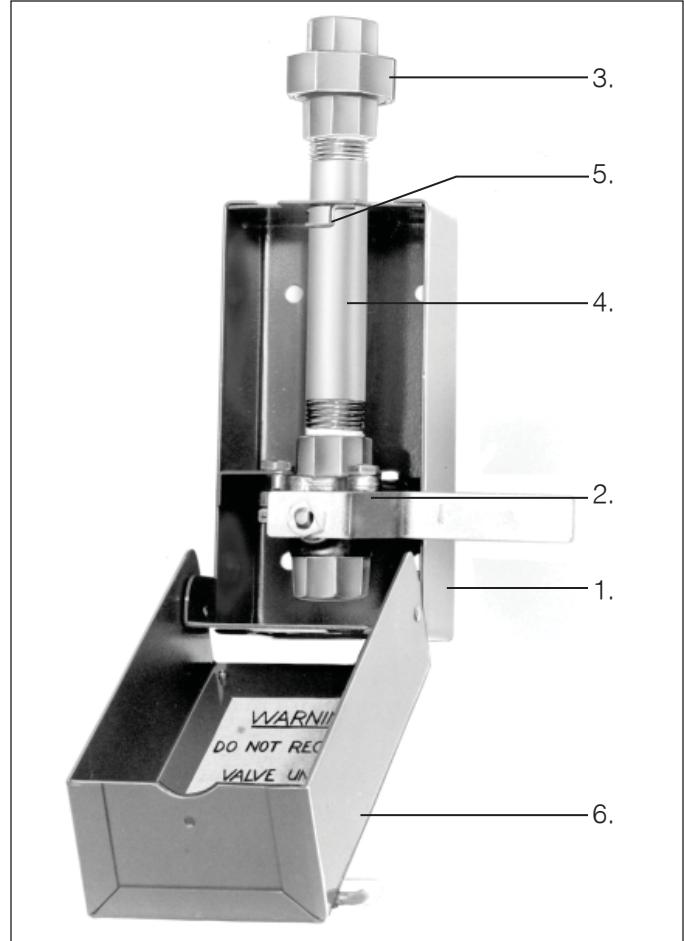
Item No.	Part No.	Description	No. Req.'d
1	91206901	Pull Box	1
2	96816901	Valve, Quick Opening, Bronze, Ball-Type - 1/2"	1
3	98815200	Union, Galvanized G.J.-1/2"	1
4	98543219	Nipple, Galvanized - 1/2" x 5"	1
5	95006901	Shear Pin (Breakable Strut)	1
6	94606901	Name Plate	1

## Testing and Inspection

1. The Hydraulic Manual Pull Boxes should be periodically checked to insure that they can be easily located and, most important, they can easily reached.
2. The Cover should be opened to insure that it can be opened by a firm but not excessive pull. It is necessary to replace the breakable strut after this operation.

**Note:** Do not operate the Quick Opening Valve (96816901) without performing operations 3A through 3G as this will trip the Deluge Valve.

3. To test Manual Pull Box without causing the Deluge Valve to operate (Refer to Bulletin 501 Care and Maintenance of Deluge Valve.), proceed as follows:
  - A. Close the Valve that controls the water supply to the Deluge Valve.
  - B. Open the 1/4" Globe Valve C that allows water to flow to the Push Rod or Top Chamber from the supply side of the Control Valve.
  - C. Open the 2" Drain Valve A on the Deluge Valve.
  - D. It is now possible to operate the Quick Opening Valve. The Quick Opening Valve should operate smoothly and when it is opened, there should be a severe drop in pressure in the Push Rod or Top Chamber of the Deluge Valve



## Operation

When a Deluge System utilizes a Wet or Dry Pilot Line of Sprinklers as the detection means, a Hydraulic Manual Pull Box can be used. The Pull Box consists of a Quick Opening Valve located in a suitable enclosure. The enclosure cover is held closed by a breakable strut, which prevents accidental opening, and must be replaced after each opening. The Manual Pull Box is connected to the Wet or Dry Pilot Line. When it is operated, it duplicates the fusing of a sprinkler and triggers the opening of the Deluge Valve

The equipment presented in this bulletin is to be installed in accordance with the latest published 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 90 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

# Reliable®

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