

Technical Data Sheet: Model MA12 Emergency Release

1. DESCRIPTION

The Minimax Fire Protection Model MA12 Emergency Release operates as a manual tripping device for use on Deluge Valve Trim with hydraulic and pneumatic release systems controlling operation of Minimax Fire Protection Deluge Valves. It consists of a special quick-opening, lever operated ball valve mounted in a stainless steel enclosure with a full opening door.

2. LISTINGS AND APPROVALS



cULus Listed - VLTP



FM Approved - Deluge and Preaction Sprinkler Systems

3. TECHNICAL DATA

Specifications

Working Water Pressure: Rated to 250 PSI (17.2 bar)

Material Standards

Refer to Figure 1.

Ordering Information

Part number: 61663

4. INSTALLATION

Deluge Valve listings and approvals may require one Emergency Release to be connected to the hydraulic release trim connected to the priming chamber of the valve used. This Emergency Release must be located in the immediate area of the valve and is used to manually operate the system independently of any automatic release system. Refer to current Minimax Fire Protection Deluge Trim Charts.

Additional Emergency Releases should be located near operators' stations, exits, or other readily accessible locations and in accordance with applicable codes and standards and the Authority Having Jurisdiction.

The Emergency Release is pre-assembled. Four 5/16" (7,9 mm) diameter holes located in the back of the enclosure are provided for mounting purposes. Refer to Figure 1.

1. Install piping from the release system to the desired location for the Emergency Release. Unless otherwise specified in the Technical Data, release piping should be 1/2" galvanized piping. Provide a fitting with 1/2" (15 mm) NPT internal threads to connect the unit.
2. When used on hydraulic release systems the outlet of the Emergency Release must discharge to open drain. The outlet is equipped with 1/2" (15 mm) NPT internal threads to allow connection of piping to open drain.
3. Apply a small amount of pipe-joint compound or tape to the external threads of all pipe connection required. Take care not to allow any compound, tape or other foreign matter inside the openings.

5. OPERATION

The special quick-opening, lever operated ball valve of the Emergency Release is installed on a special 1/2" (15 mm) NPT nipple inside a stainless steel enclosure. The valve is closed when the handle is aligned with the pipe nipple. This allows the valve to be closed during normal operation when the door of the Emergency Release is closed.

The following operation instructions are printed on the outside of the Emergency Release door:

"IN CASE OF FIRE, OPEN DOOR AND PULL LEVER"

When the door of the Emergency Release is opened and the handle of the special ball valve is pulled, the valve opens to relieve pressure maintained on the release system.

Hydraulic Release Systems:

Hydraulic release systems control operation of Minimax Fire Protection Deluge Valves by maintaining water pressure in the priming chamber of the valve used. Opening of the Emergency Release allows water from the hydraulic release system to flow to open drain, relieving water pressure from the priming chamber to allow the valve to open.

Electric Release System:

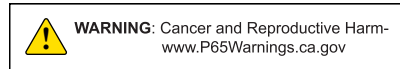
Standard Trim for Deluge Valves equipped for electric release, requires an Emergency Release to be connected to the hydraulic release trim between the priming chamber of the valve used and the electric solenoid. The Emergency Release allows operation of the system independent of the electric release system.

Pneumatic Release System:

Pneumatic release systems control operation of Minimax Fire Protection Deluge Valves by maintaining pneumatic pressure on a Pneumatic Actuator** installed in the release trim of the valve used. Opening of the Emergency Release allows pressure from the pneumatic release system to flow to atmosphere, allowing the Pneumatic Actuator to open. Opening of the Pneumatic Actuator allows water from the Deluge or Flow Control Valve priming chamber to flow to open drain, and the valve to open.

After Operation:

After system has been reset, return the handle to its normal operating position and close the door.



6. INSPECTIONS, TESTS AND MAINTENANCE

NOTICE

The owner is responsible for maintaining the fire protection system and devices in proper operating condition.

WARNING

Any system maintenance that involves placing a control valve or detection system out of service may eliminate the fire protection capabilities of that system. Prior to proceeding, notify all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the affected areas.

The Minimax Fire Protection Emergency Release must be kept free of foreign matter, freezing conditions, corrosive atmospheres, contaminated water supplies, and any condition that could impair its operation or damage the device.

It is imperative that fire protection sprinkler systems be inspected and tested on a regular basis. The frequency of the inspections may vary due to contaminated water supplies, corrosive water supplies, and corrosive atmospheres. For minimum maintenance and inspection requirements, refer to NFPA 25. In addition, the Authority Having Jurisdiction may have additional maintenance, testing, and inspection requirements that must be followed.

A. Visual Inspection

1. Verify that the door of the Emergency Release is not obstructed and opens freely.
2. Check for signs of mechanical damage and/or corrosive activity. If detected, perform maintenance as required or, if necessary, replace the device.

B. Operational Test - Refer to Technical Data for the valve used.

1. Notify the Authority Having Jurisdiction and those in the area affected by the test.
2. Close the main water supply control valve, placing the system out of service.
3. Open the door of the Emergency Release and pull the handle. Air or water from the release system should discharge to open drain.
4. When testing is complete, return the handle to its normal operating position and close the door.
5. Establish normal operating pressure in the release system.
6. Refer to Technical Data for the valve used to open the main water supply control valve and place the system back in service.
7. Notify the Authority Having Jurisdiction and those in the area affected by the test that the system is back in service.

7. AVAILABILITY

The Model MA12 Emergency Release is available through a network of domestic and international distributors. See the Minimax Fire Protection Web site for closest distributor or contact Minimax Fire Protection.

8. GUARANTEES

For details of warranty, refer to Minimax Fire Protection's current list price schedule or contact Minimax Fire Protection directly.

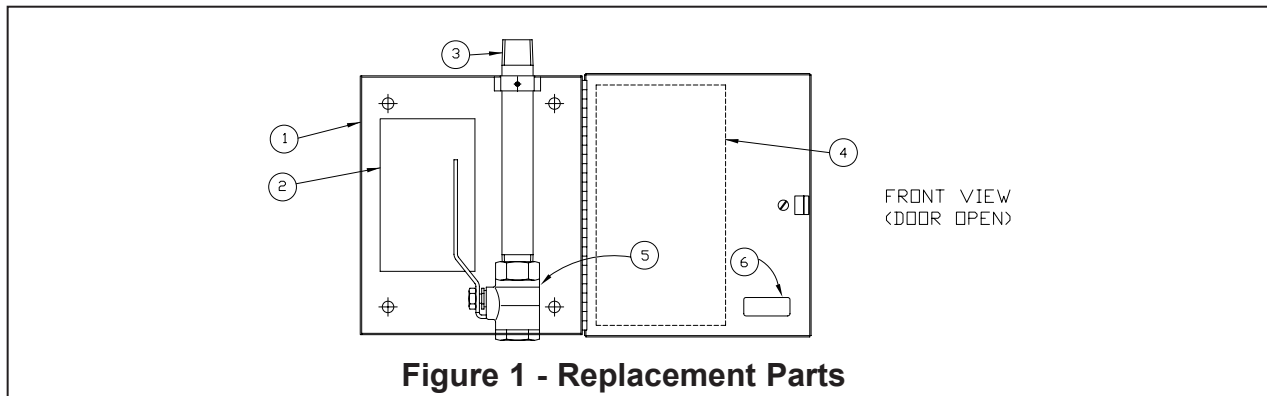


Figure 1 - Replacement Parts

ITEM NO.	MA12	DESCRIPTION	MATERIAL	QTY.
1	--	Enclosure Assembly	20 ga. Stainless Steel	1
2	--	Label (Caution)	Clear Mylar	1
3	12612GNIP	1/2" x 6-1/2" Nipple	Galvanized steel	1
4	--	Instruction Plate	Brushed Aluminum	1
5	01557A	1/2" (15 mm) Ball Valve (Special)	Brass Body, Chrome-Plated Ball, PTFE Seats	1
6	--	Label (Part No. & Mod. No.)	Polyester Thermal Transfer Stock	1