



## TECHNICAL DATA

## EMERGENCY RELEASE

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services 877-384-5464 Fax: 269-945-4495 Email: techsvcs@vikingcorp.com

### 1. DESCRIPTION

The Viking Emergency Release operates as a manual tripping device for use on Deluge and Flow Control Valve Trim and on hydraulic and pneumatic release systems controlling operation of Viking Deluge and Flow Control 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

#### Models C-1 and C-2:

UL Listed - VLTR

cUL Listed

FM Approved - Deluge Sprinkler Systems, Preaction Sprinkler Systems

#### Model C-3:

UL Listed - VLTR

cUL Listed

### 3. TECHNICAL DATA

#### Specifications:

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

#### Materials:

Refer to Figure 1

#### Ordering Information:

Model C-1: Part Number 01553C, Available since 1971

Model C-2 (Brass): Part Number 09387, Available since 1995

Model C-3 (Corrosion Resistant): Part Number 09734, Available since 1996

Shipping Weight: 4 lbs. (1,8 kg)



Viking Technical Data may be found on The Viking Corporation's Web site at <http://www.vikinggroupinc.com>. The Web site may include a more recent edition of this Technical Data Page.

### 4. INSTALLATION

Deluge and Flow Control 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 Viking Deluge and Flow Control 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 ½" galvanized piping. Provide a fitting with ½ (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 ½" (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 ½" (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.

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**Hydraulic Release Systems:**

Hydraulic release systems control operation of Viking Deluge and Flow Control 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 and Flow Control 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 Viking Deluge and Flow Control 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.**

The Viking 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.

**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 THE AUTHORITY HAVING JURISDICTION. CONSIDERATION SHOULD BE GIVEN TO EMPLOYMENT OF A FIRE PATROL IN THE AFFECTED AREA.**

**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

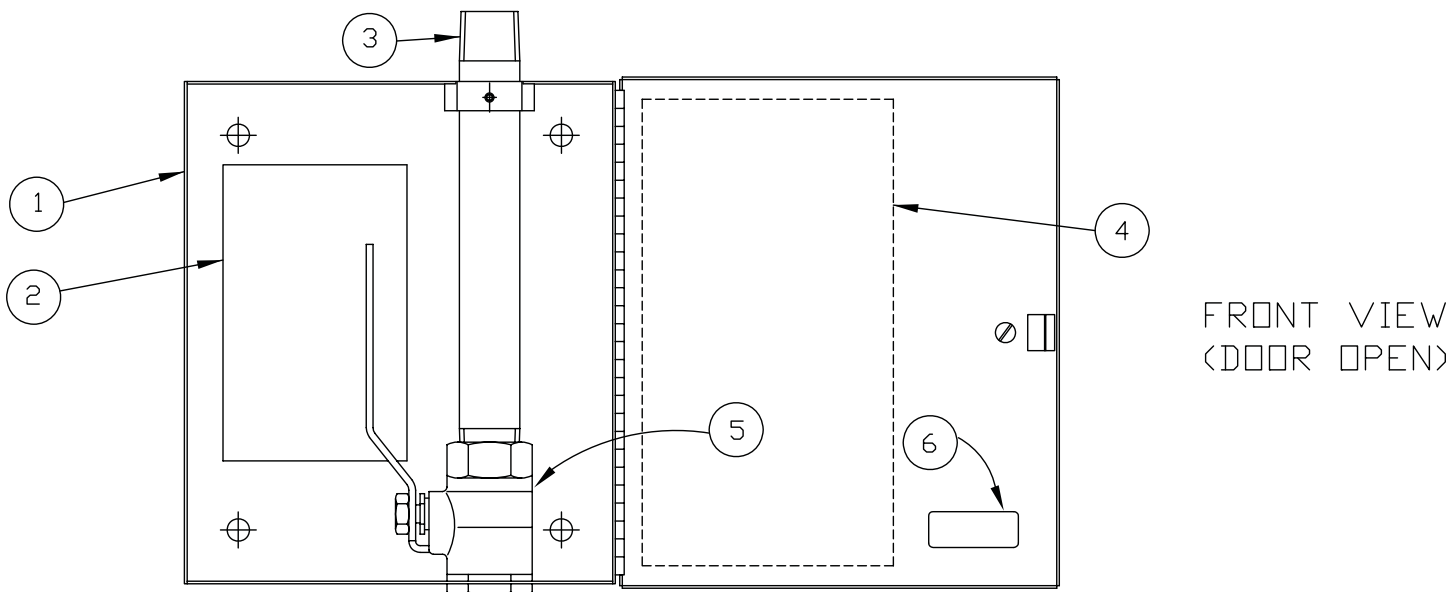
The Viking Emergency Release is available through a network of domestic and international distributors. See the Viking Corp. Web site for closest distributor or contact The Viking Corporation.

## 8. GUARANTEES

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

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**Figure 1 - Replacement Parts**

ITEM NO.	C-1	C-2	C-3	DESCRIPTION	MATERIAL	MODEL	QTY.
1	--	--	--	Enclosure Assembly	20 ga. Stainless Steel	C-1, C-2, C-3	1
2	--	--	--	Label (Caution)	Clear Mylar	C-1, C-2, C-3	1
3	12612GNIP	12612BNIP	12612SSNIP	1/2" x 6-1/2" Nipple	Galvanized steel	C-1	1
					Black steel	C-2	1
					316 Stainless Steel	C-3	1
4	--	--	--	Instruction Plate	Brushed Aluminum	C-1, C-2, C-3	1
5	01557A	01557A	09736	1/2" (15 mm) Ball Valve (Special)	Brass Body, Chrome-Plated Ball, Teflon® Seats	C-1, C-2	1
					Stainless Steel Body and Ball, Teflon® Seats & Seals	C-3	1
6	--	--	--	Label (Part No. & Mod. No.)	Polyester Thermal Transfer Stock	C-1, C-2, C-3	1

**NOTE:** If item 3 is required for units produced prior to 2004 (threaded lock nut style nipple), the Emergency Release must be replaced.

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