

# Installation Instructions

## AUTOMATIC RESEATING TEMPERATURE AND PRESSURE RELIEF VALVES

Design CSA certified per ANSI Z21.22 Relief Valves and Automatic Gas Shutoff Devices

Install valve in a tee in the hot water outlet of the heater either vertically or horizontally with the outlet pointing down or install in a separate tapping on the heater, if one is provided. (See installation diagrams on reverse side.)

**Caution: Do not install in cold water inlet and do not install a shut-off valve between the relief valve and heater or in the line on the relief valve outlet.**

The installation must be made such that the temperature sensing element in the end of the valve's stem is immersed in water in the upper six (6") inches of the heater tank. Make sure the BTU/Hr capacity rating of the relief valve exceeds the input rating to the water heater. The discharge from the relief valve shall be conducted in a suitable place for disposal when relief occurs by installation of a drain line to any open drain. Make sure water in drain line cannot freeze and cause a stop-up; relief line must be such that the relief valve outlet and drain line will drain dry.

Do not use reduced couplings or other restrictions to install drain line to the valve discharge.

This valve protects a water system from both over pressure and over temperature. It will automatically shut off after providing such protection. If valve fails to shut off, check for excessive pressure and/or heat input control operation.

### ASME LISTING

This valve is also listed by ASME and so marked on the valve name plate. Below are excerpts from the ASME Code:

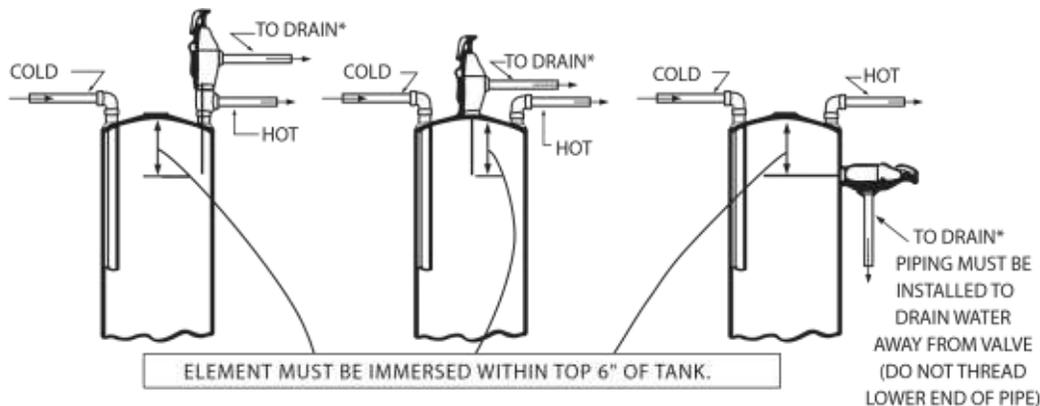
Par. HG-701.1: Safety valves and safety relief valves shall be located in the top or side of the boiler. They shall be connected directly to a tapped or flanged opening in the boiler, to a fitting connected to the boiler by a short nipple, to a Y- base, or to a valveless header connecting steam or water outlets on the same boiler. This opening or connection between the boiler and any safety valve or safety relief valve shall have at least the area of the valve inlet.

Par. HG-701.5: No shut-off of any description shall be placed between the safety valve or safety relief valve and the boiler, nor on discharge pipes between such valves and the atmosphere.

Par. HG-701.6 (a): When a discharge pipe is used, its internal cross sectional area shall not be less than the full area of the valve outlet or of the total of the valve outlets discharging there into and shall be as short and straight as possible and so arranged as to avoid undue stress on the valve or valves. When an elbow is placed on a safety or safety relief valve discharge pipe, it shall be located close to the valve outlet.

(b): The discharge from safety or safety relief valves shall be so arranged that there will be no danger of scalding attendants.

## SUGGESTED INSTALLATIONS



\* Piping to drain must be installed such that no point in the piping is higher than the relief valve and that there are no low points in the piping which will trap water.

### NOTICE TO CONSUMER:

Safe practice requires that you operate this valve once per year by lifting the lever provided. **WARNING** - Before operating make sure valve is piped to a proper drain - **PER INSTRUCTIONS** - scalding injury and/or water damage can occur from either the manual lifting of the lever or the normal operation of the valve if it is not piped to a proper drain. If valve fails to flow water or reseal, call your plumber.