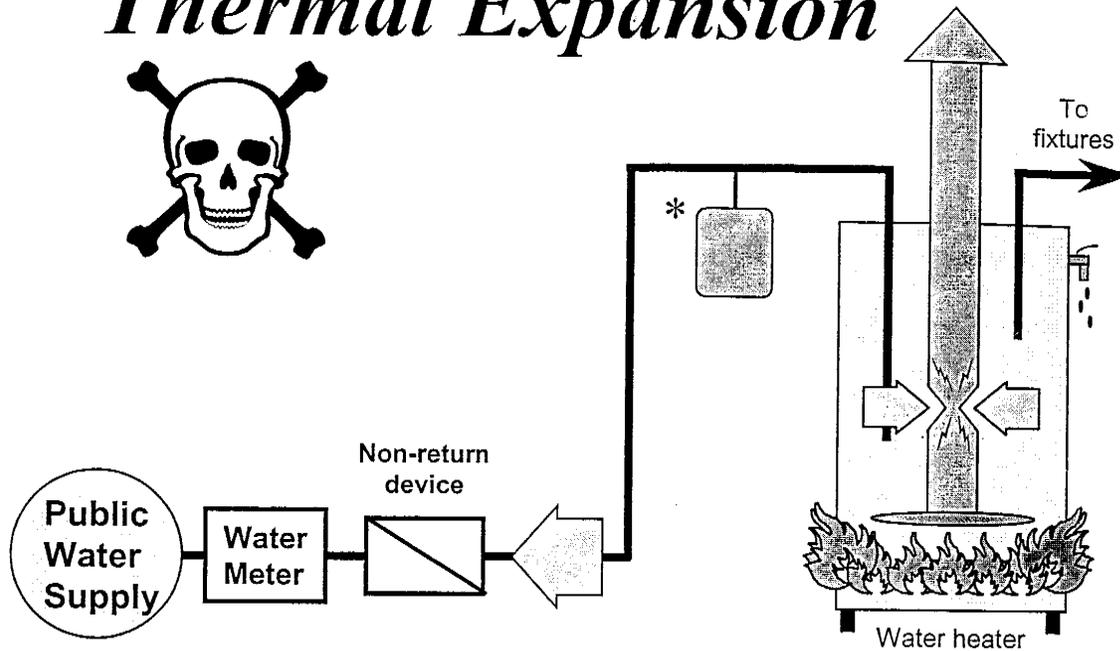


Thermal Expansion



With "non-return devices" installed in domestic water piping systems, thermally expanded water is prevented from flowing back into the public water supply. The result is a "closed domestic water system" in which dangerous pressure increases may cause flue collapse, flame roll out, plumbing fixtures and the water heater relief valve to leak, and Carbon Monoxide.

*A thermal expansion tank installed between the "non-return device" and the water heater will relieve dangerous pressures caused by thermal expansion.

**Consult with your licensed plumbing contractor
to address your thermal expansion needs.**

The 1997 Uniform Plumbing Code, Section 608.3 states, "...an approved listed expansion tank or other device designed for intermittent operation for thermal expansion control shall be installed whenever the building supply pressure is greater than the required relief valve setting or when any device is installed that prevents pressure relief through the building supply."

The installation of "non-return devices" such as backflow prevention assemblies, check valves, dual check valves, pressure reducing or regulating valves, and in some instances water softeners between the water service connection and the premises domestic water heater may create a "closed domestic water system." It is the owner's responsibility to control thermal expansion created by the installation of any device that prevents pressure relief through the building supply.