

THERMAL EXPANSION RELIEF (T.E.R.) VALVE

7.6.1.16.(1) Thermal Expansion. Protection against thermal expansion shall be required when a *check valve* is required by Article 7.6.1.10., a *backflow preventer* is required by Article 7.6.2.2., or a pressure reducing valve is required by Article 7.6.3.3.

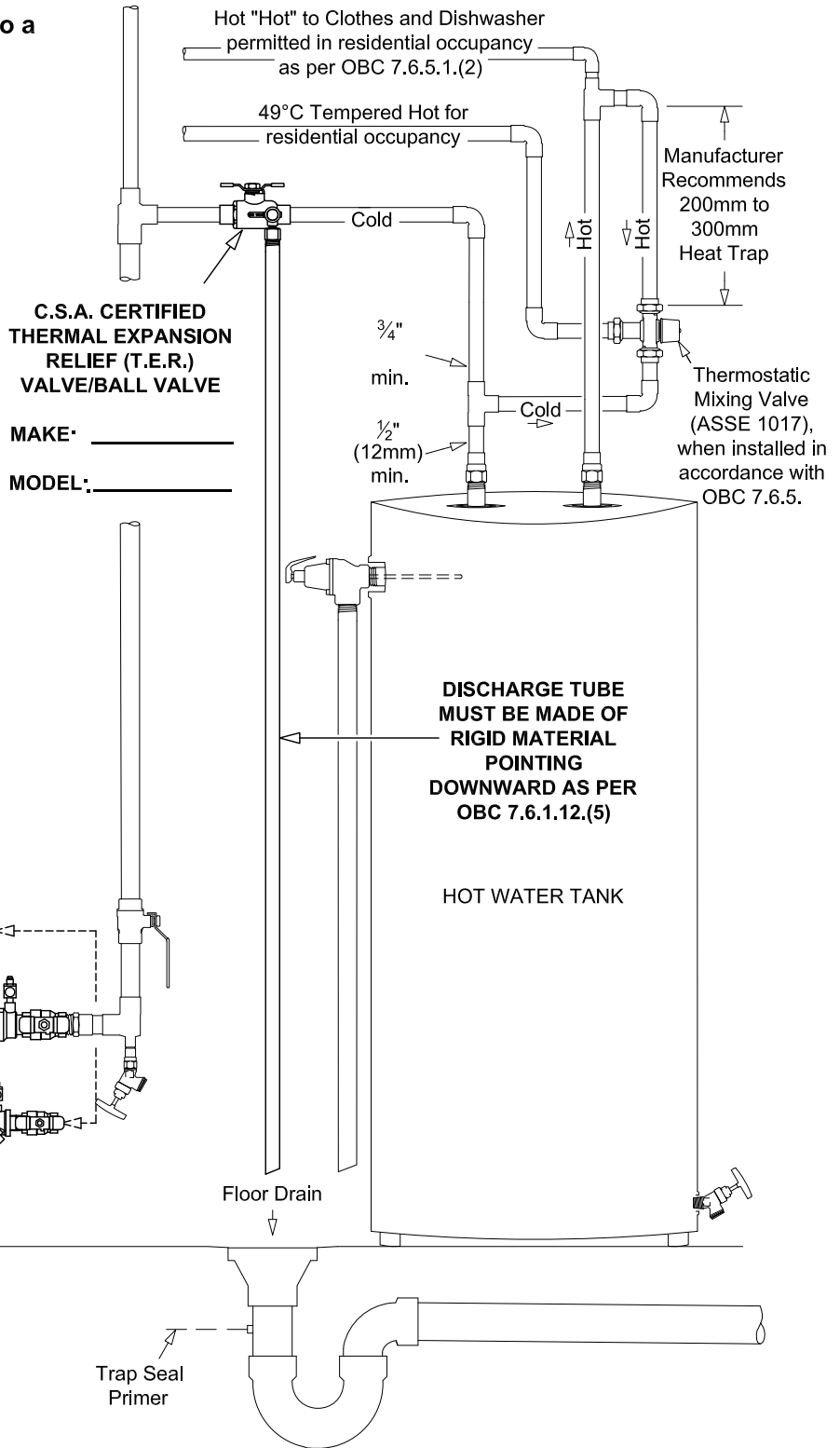
A-7.6.1.16.(1) Thermal Expansion. Closed water systems with no expansion to public water systems need to accommodate thermal expansion using one of the following:

(i) an expansion tank designed for use on the cold or hot potable water system, or

(ii) an thermal relief valve piped to a drain forming an air break conforming to CSA B125, "Plumbing Fittings,".

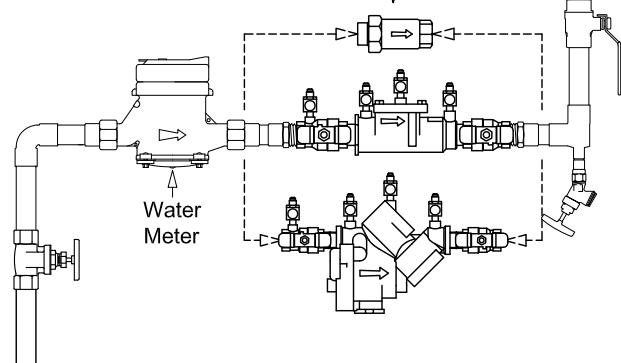
The installation of a Backflow Preventer on the Water Distribution Piping entering the building creates a closed system in turn creating a situation where the hot water tank can increase pressure within the system through thermal expansion.

Combination Thermal Expansion Relief/Ball Valves are specifically designed to provide both a cold water supply shut-off to the hot water tank while also providing protection against any increase in water pressure caused by thermal expansion.



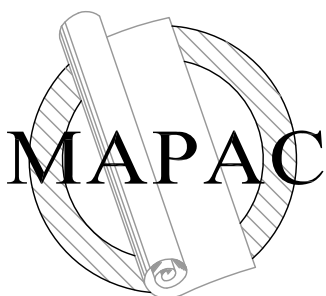
TYPE OF BACKFLOW PREVENTER

- Du.C.
- D.C.V.A.
- R.P.



SIZE OF WATER SERVICE

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METRO AREA PLUMBING ADVISORY COMMITTEE Subcommittee of the Toronto Area Chief Building Officials Committee

TITLE Premise Isolation and Thermal Expansion for Water Services up to 1-inch diameter

SCALE NONE DWN R. BLUNDEL March 10, 2009

DRAWING NUMBER MAPAC-006-2009