

FLOTECS
Fluid/Flue solutions®

FLOTECS
P&T Safety
Valve | PTSV

DESCRIPTION

FLOTECS P&T Safety Valve Combination Pressure and Temperature Relief Valves are designed for the protection of water heaters and storage tanks. FLOTECS P&T Safety Valves are designed to meet PED and ASME Boiler Code Section IV in most configurations and are ideal for all domestic water heater applications.

FLOTECS P&T Safety Valves are completely automatic and reseal after either temperature or pressure relief. They are offered in 1/2" and 3/4" sizes with male inlets and female outlets. The PTSV Valve incorporates an innovative "whitecoat" thermal element coating; an inert covering that provides effective isolation from mineral deposits (liming) and galvanic corrosion, offering many years of dependable safety protection.

The PTSV model provides the standard length body and thermal element. Five models of the 3/4" size are available with extended length bodies for use with super-insulated waterheaters. The 3/4" PTSV model is available for applications where an extended thermal element is required, and the PTSV-1 is available for applications where a reduced length thermal element is required.

FLOTECS P&T Safety Valves come with standard factory settings of 150 psi for pressure relief and 210° F for temperature relief. Most models are also available in a 125 psi factory setting. A 75 psi and 175 psi factory setting is also offered for the 3/4" PTSV.

The PTSV Series Relief Valves feature a cast bronze body, brass and stainless steel internal parts, silicone seat disc, and stainless steel pressure spring.



FEATURES AND BENEFITS

- Incorporates an inert thermal element coating:
- Provides effective isolation from mineral deposits (liming) and galvanic corrosion.
- Completely automatic and reseats after temperature or pressure relief:
- Ideal for all domestic water heater applications.
- In accordance with PED & ASME Boiler Code Section IV:
- Inspector friendly, peace of mind!
- Every valve is tested for performance prior to shipping:
- Specify and install with confidence!

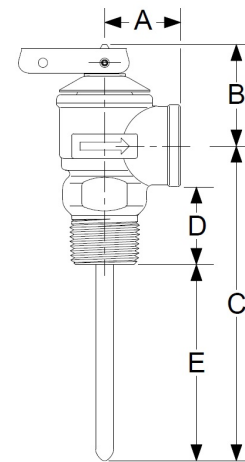
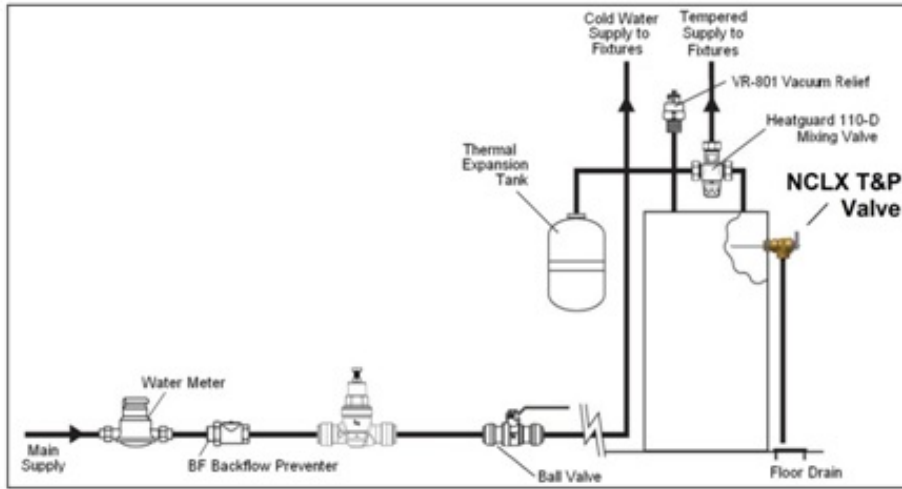
SPECIFICATIONS

A pressure and temperature relief valve shall be installed to protect the water heater or water storage tank from excessive temperature and pressure. The valve shall be in accordance with PED or ASME. The valve shall have a BTU rating in excess of the input rating of the water heater in which it is installed.

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TYPICAL INSTALLATION

Recognized authorities specify a temperature actuated relief valve to be installed so that the temperature sensing element is in contact with hot water in the top-six inches of the tank. This is a necessary safety precaution due to temperature stacking – to insure that the temperature element is sensing the hottest water in the top of the tank. The discharge from the relief valve must route to a suitable place for disposal in accordance with applicable codes.



ASME Boiler Code Ratings				
Type	Size	ASME Rating at Pressure Rating Indicated		
		75 psig (BTU/hr)	125 psig (BTU/hr)	150 psig (BTU/hr)
PTSV	1/2"	15,000		
PTSV	3/4"		500,000	500,000

Type	Size	Dimensions				
		A	B	C	D	E
PTSV	1/2"	1-3/32"	1-9/16"	3-3/16"	1-3/16"	1-7/16"
PTSV	3/4"	1-5/32"	1-9/16"	3-3/16"	1-3/16"	1-5/16"

Subject to modifications under Flotecs R&D

SPECIFICATION DATA

Performance:

Available Set Pressures.....150 psi standard
(75,100,125,and 175 psi available for select models; see Rating Table)

Temperature Relief210°F standard
(180°F available for select models; see Rating Table)

Service.....Hot Water Materials:

Body.....Bronze Internal

Parts.....Brass and stainless steel Seat

Disc.....Silicone Pressure

Spring.....Stainless Steel

CONNECTIONS

Threaded(NPT).....Male inlet and female outlet

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