

For Water Heater and Hot Water Storage Tank Applications

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

Series 1L, 1XL, 10L and 100XL Temperature and Pressure Relief Valves

A.S.M.E rated*, CSA Listed. Self-closing T&P Relief Valves for Water Heaters up to 100,000 BTU/Hr.

The combined 2 in 1 T&P relief valve provides the least expensive and proven means for protection against both excessive temperature and pressure emergency conditions.

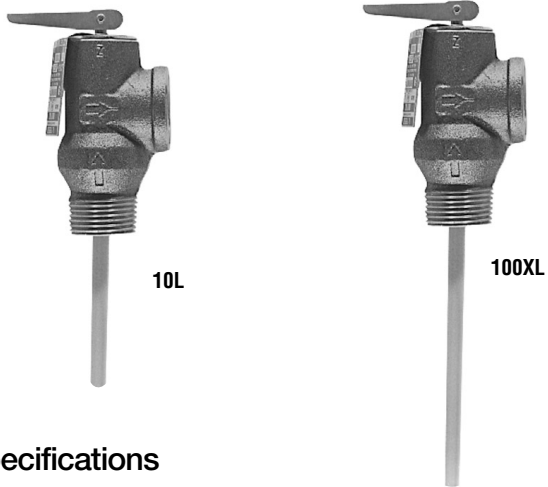
Provides fully automatic temperature and pressure relief protection for hot water storage tanks and heaters up to 100,000 BTU/HR. Series 10L furnished with test lever and short thermostat for installation directly in tank tapping. Series 100XL furnished with test lever and extension thermostat for installation in the hot water outlet line or directly in the tank tapping. Temperature sensing element must be immersed in the water within the top 6" (152mm) of the tank. Male inlet and female outlet. Temperature relief 210°F (99°C). Standard settings 75, 100, 125, 150psi (5.27, 7.03, 8.79, 10.55 bar).

Features

- Series 1L, 1XL, 10L and 100XL - Size 3/4" (20mm) (A.S.M.E. Rated*, CSA Listed) Feature a unique thermostat with special thermo-bonded coating
- All bronze body
- Stainless steel spring
- Thermostat is accurate and proven. Exclusively designed and manufactured by Watts

Options

- For tanks and heaters with extra thick insulation, use Watts L100XL or LL100XL, send for literature ES-L100XL
- For new generation water heaters containing extra thick insulation, send for literature ES-SL100XL/LLL100XL
- Series 100XL-8 with 8" (200mm) extension thermostat
- SOLAR - Series 100XL or 1XL; specify Model Z9 for stainless steel lever and pin for outside solar applications. Model Z11 for 180°F (82°C) thermostat
- Series 1L, 1XL Size 1/2" (15mm): For both temperature and pressure relief protection. Series 1L has short thermostat and test lever. Series 1XL has extension thermostat with thermo-bonded coating. Also available with 8" (200mm) extension thermostat



Specifications

T&P valves
 Each water heater and hot water storage tank shall be equipped with a CSA and A.S.M.E. rated* automatic temperature and pressure relief valve to protect the heater from excessive pressure and temperature. The device shall be ANSI Z21.22 certified. The BTU discharge capacity of the device shall be in excess of the BTU input rating of the heater. Watts Regulator Company No. 1L, 1XL, 10L or 100XL.

WARNING: Following installation, The valve lever MUST be operated AT LEAST ONCE A YEAR by the hot water tank owner to ensure that the water-ways are clear. Certain naturally occurring mineral deposits may adhere to the valve, rendering it inoperative. When manually operating the lever, water will discharge and precautions must be taken to avoid contact with hot water and to avoid water damage. **BEFORE operating lever,** check to see that a discharge line is connected to this valve directing the flow of hot water from the valve to a proper place of disposal otherwise personal injury may result. If no water flows, valve is inoperative. **TURN OFF THE WATER HEATER AND CALL A PLUMBER IMMEDIATELY.** This device is designed for emergency safety relief and shall not be used as an operating control.

IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES FOR LOCAL INSTALLATION REQUIREMENTS



* Series 1L and 1XL Valves are not A.S.M.E. Listed or Rated.

Series 1L, 1XL, 10L and 100XL

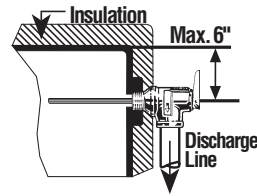
Direct Side Tapping

For External Flue Heaters

Use extra length extension thermostat to extend into water storage tank.

For Internal Flue Heaters

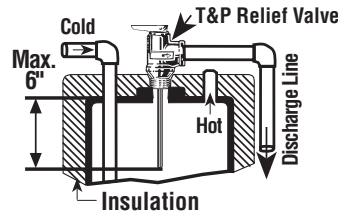
Use short or standard length thermostat. Vertical discharge line must be installed with its direction downward.



Direct Top Tapping

For Heaters

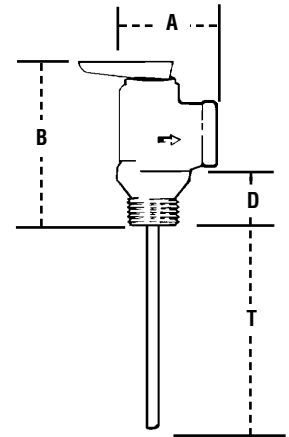
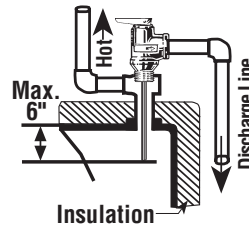
Use standard or extra length extension thermostat



Alternate

Only when the tappings are not provided

Use standard or extra length extension thermostat



Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Dimensions/Weights

MODEL	Ordering Code*	SIZE (DN)		DIMENSIONS								Weight		CSA
		in.	mm	A		B		D		T		oz.	gm.	Temp. Steam Rating BTU/hr.
1L2 M7	0002268	1/2	15	1 3/4	43	3 1/2	89	7/8	22	2	50	10	284	15,000
1XL-4 M7	0004494	1/2	15	1 3/4	43	3 1/2	89	7/8	22	4	100	12	340	15,000
1XL-8 M7	0004497	1/2	15	1 3/4	43	3 1/2	89	7/8	22	8	203	16	454	15,000
10L-2 M7	0064014	3/4	20	1 3/4	43	3 1/2	89	1 1/8	29	2	50	10	284	80,000
100XL-4 M7	0066100	3/4	20	1 3/4	43	3 1/2	89	1 1/8	29	4	100	12	340	100,000
100XL-8 M7	0066110	3/4	20	1 3/4	43	3 1/2	89	1 1/8	29	8	203	14	397	100,000
L100XL-3 M7	0066133	3/4	20	1 3/4	43	4 1/4	108	2 1/8	54	4	100	12	340	100,000

A = overall width of the valve. B = overall height of the valve, with lever closed, not including thermostat element length. D = length of shank, from shoulder under outlet orifice overhang to inlet orifice edge.

T = length of thermostat element, measured from inlet orifice edge to end of thermostat.

* 150psi set pressure



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Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscda.com