

## For Water Heater Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LFSL100XL, LFL100XL, LFLL100XL and LFLLL100XL Extended Shank T&P Relief Valves

Size  $\frac{3}{4}$ " (20mm)

CSA Rated. Standard Models are self-closing T&P Relief Valves for Water Heaters up to 105,000 BTU/Hr.

Watts Series LFSL100XL, LFL100XL, LFLL100XL and LFLLL100XL have extended inlet shanks for use with the new generation of water heaters containing extra thick insulation. These valves eliminate the use of an extension nipple required with standard shank length models. They feature Lead Free\* construction to comply with Lead Free\* installation requirements.

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

Watts Self-closing combination T&P relief valves are design certified, rated and listed by CSA to the requirements of ANSI Z21.22; and by the National Board to the requirements of ASME Section IV.

They provide fully automatic temperature and pressure relief protection for hot water storage tanks and heaters up to 105,000 BTU/Hr. The 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 setting 75, 100, 125, 150psi (5.3, 7.0, 8.8, 10.6 bar).

### Features

- Model LFSL100XL Extended inlet model for installations with thick insulation. Suitable for water heaters with up to  $1\frac{3}{4}$ " (44.5mm) of insulation.
- Model LFL100XL Extended inlet model for installations with thick insulation. Suitable for water heaters with up to 2" (50.8mm) of insulation.
- Model LFLL100XL Extra extended inlet model. Suitable for water heaters with up to  $2\frac{1}{2}$ " (63.5mm) of insulation.
- Model LFLLL100XL Extra extended inlet model. Suitable for water heaters with up to 3" (76mm) of insulation.
- Thermostats with special protective coating.
- All Lead Free\* brass body.
- Stainless steel spring.
- Thermostat is accurate and proven. Exclusively designed and manufactured by Watts.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



LFLLL100XL

LFLL100XL

LFL100XL

LFSL100XL

### Specifications

#### Temperature & Pressure Relief Valves

Each hot water storage heater shall be equipped with a CSA and ASME rated automatic temperature and pressure relief valve to protect the heater from excessive pressure and excessive temperature. The device shall be design certified, rated and listed by CSA to the requirements of ANSI Z21.22; and by the National Board to the requirements of ASME Section IV. The BTU discharge capacity of the device shall be in excess of the BTU input rating of the heater. The Lead Free\* Extended Shank T&P Relief Valves shall comply with state codes and standards, where applicable, requiring reduced lead content. Watts Series LFSL100XL, LFL100XL, LFLL100XL or LFLLL100XL.

### ⚠ WARNING

**Following installation, the valve lever MUST be operated AT LEAST ONCE A YEAR to insure that the waterways are clear.** Certain naturally occurring mineral deposits may adhere to the valve, rendering it inoperative. When manually operating the lever, please take precautions to avoid contact with hot water that may discharge 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.

### NOTICE

Inquire with governing authorities for local installation requirements

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.

## Series LFSL100XL, LFL100XL, LFLL100XL and LFLLL100XL

**Model LFSL100XL** Suitable for water heaters with up to 1¾" (44mm) of insulation

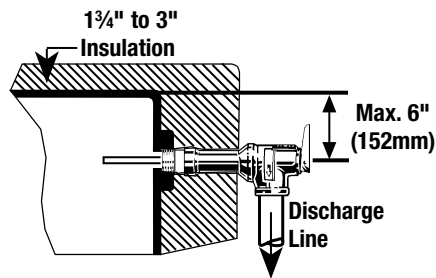
**Model LFL100XL** Suitable for water heaters with up to 2" (50.8mm) of insulation

**Model LFLL100XL** Suitable for water heaters with up to 2½" (63.5mm) of insulation

**Model LFLLL100XL** Suitable for water heaters with up to 3" (76mm) of insulation

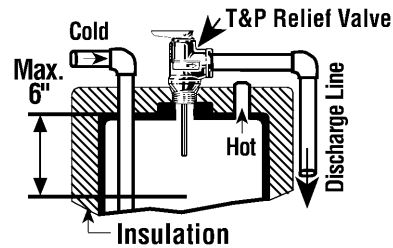
### Direct Side Tapping

Vertical discharge line must be installed with its direction downward.



### For Heaters with Direct Top Tapping

Use standard or extra length extension thermostat.



### Dimensions – Weights

NO.	SIZE		HEIGHT		WIDTH		WEIGHT		C.S.A. TEMP
	inches	mm	inches	mm	inches	mm	lbs.	Kgs.	STEAM RATING
LFSL100XL	¾	20	4	102	1 7/8	48	.58	.26	105,000
LFL100XL	¾	20	4 ¼	108	1 7/8	48	.61	.28	105,000
LFLL100XL	¾	20	4 ¾	127	1 7/8	48	.65	.29	105,000
LFLLL100XL	¾	20	5 ¼	133	1 7/8	48	.68	.31	105,000

### ⚠ WARNING

**REINSPECTION OF T&P RELIEF VALVE: Temperature and Pressure Relief Valves should be reinspected AT LEAST ONCE EVERY TWO TO FOUR YEARS** by a licensed plumbing contractor or authorized inspection agency, to insure that the product has not been affected by corrosive water conditions and to insure that the valve and discharge line have not been altered or tampered with illegally. Certain naturally occurring conditions may corrode the valve or its components over time, rendering the valve inoperative. Such conditions are not detectable unless the valve and its components are physically removed and inspected. Do not attempt to conduct this inspection on your own. Contact your plumbing contractor for a reinspection to assure continuing safety. **FAILURE TO REINSPECT THIS VALVE AS DIRECTED COULD RESULT IN UNSAFE TEMPERATURE OR PRESSURE BUILD-UP WHICH CAN RESULT IN SERIOUS INJURY OR DEATH AND/OR SEVERE PROPERTY DAMAGE.**

### NOTICE

A relief valve functions in an emergency by discharging water. Therefore, it is essential that a discharge line be piped from the valve in order to carry the overflow to a safe place of disposal. The discharge line must be the same size as the valve outlet and must pitch downward from the valve and terminate at least 6" (152mm) above the floor drain where any discharge will be clearly visible. For 100DT discharge line consult your Watts agent.

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



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