

## For Gas Water Heater Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LF210-5 Automatic Gas Shutoff Valves

Series LF210-5 automatic gas shutoff valves are positive-acting energy shutoff for the emergency temperature protection of gas water heaters. They are self-contained devices independent of all other operating controls. They provide protection against overheating water in the domestic hot water supply heating systems by automatically shutting off the gas supply to the heater in the event that the water temperature reaches 210°F (99°C). Series LF210-5 must be manually reset in order to resume heater service. This feature serves as a warning of malfunctioning of the normal operating controls. Manual resetting is easily done and does not require dismantling or replacing of any part of the valve. See "Reset Button" feature. The LF210-5 features Lead Free\* construction to comply with Lead Free\* installation requirements.

This gas shutoff differs from other contemporary design in that Watts engineers have embodied the time tested Watts auto-thermatic thermal actuator principle along with a snap-acting trip latch which closes the valve at a definite controlled temperature.

Models LFL210-5 M2, LFLL210-5 M2 and LFLLL210-5 M2 feature extended shanks for use with the new generation of water heaters containing extra thick insulation.

### Features

- **Seating** - Buna N disc to metal seating assures positive seal for shutting off the gas to burner in the event of high water temperature conditions.
- **Reset Button** - After operating from high temperature, the gas shutoff must be manually reset (opened). Pressing the reset button in as far as it will go and then releasing, opens the valve and allows gas to again flow to the burner.
- **Trip Latch Assembly** - Snap acting latch releases the valve to closed at a definite controlled temperature. Stainless steel spring seats valve when trip latch releases valve to closed position
- **Thermostat** - Operates trip latch in response to water temperature. Thermobulb, temperature sensitive portion, is at end of extension tube for accurate response to tank temperature.

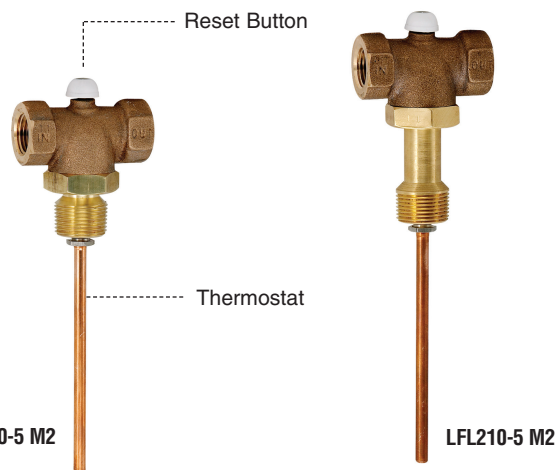
### Models

- LF210-5 M2** Suitable for water heaters with up to ¾" of insulation  
**LFL210-5 M2** Suitable for water heaters with up to 2" of insulation  
**LFLL210-5 M2** Suitable for water heaters with up to 2½" of insulation  
**LFLLL210-5 M2** Suitable for water heaters with up to 3" of insulation

### Specifications

Standard setting: 210°F (99°C)

Extension: Furnished with 5" thermostat extension only.



LF210-5 M2

LFL210-5 M2



LFLL210-5 M2

LFLLL210-5 M2

### NOTICE

Inquire with Governing Authorities for Local Installation Requirements

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

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.

## Typical Installations

### ⚠ WARNING

**Installation:** The gas shutoff valve must be installed so that the thermostat is immersed in the water within the upper 6" of the tank  
**DO NOT INSTALL IN COLD WATER LINE.**

### ⚠ WARNING

The installation of a separate pressure relief valve is required for installations without T&P. Removal of the factory installed T&P valve may void water heater manufacturer's warranty.

## Gas Capacity

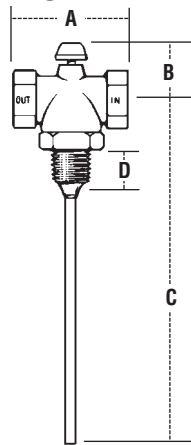
### C.S.A. listed ratings of this valve are:

For use with natural gas 150,000 BTU/hr.  
 For use with liquified petroleum gas 243,000 BTU/hr.

### NOTICE

See C.S.A. directory for adjustment factors when used with manufactured, mixed and L.P. gas-air mixtures.

## Dimensions — Weights



MODEL	DIMENSIONS								WEIGHT	
	A		B		C		D		lbs	kgs.
	in.	mm	in.	mm	in.	mm	in	mm		
LF210-5 M2	2½	64	1⅞	29	8	203	7/8	22	1.0	0.45
LFL210-5 M2	2½	64	1⅞	29	7 <sup>13</sup> / <sub>16</sub>	198	1 <sup>7</sup> / <sub>8</sub>	48	1.0	0.45
LFL210-5 M2	2½	64	1⅞	29	8 <sup>5</sup> / <sub>16</sub>	211	2 <sup>3</sup> / <sub>8</sub>	60	1.0	0.45
LFL210-5 M2	2½	64	1⅞	29	8 <sup>13</sup> / <sub>16</sub>	224	2 <sup>7</sup> / <sub>8</sub>	73	1.0	0.45

MODELS	CONNECTIONS				BTU/HR RATINGS M.F.G. AND		
	TANK	GAS	NATURAL GAS	L.P. GAS	L.P. GAS AIR MIXTURES		MIXED GASES
LF210-5 M2, LFL210-5 M2, LFL210-5 M2, LFL210-5 M2	¾" male	½" female	150,000	243,000	77,400		125,750



A Watts Water Technologies Company



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 Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • www.watts.ca

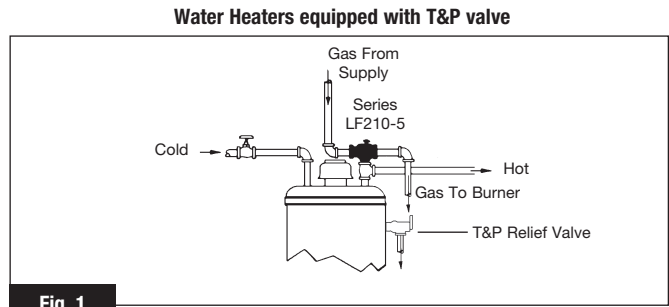


Fig. 1

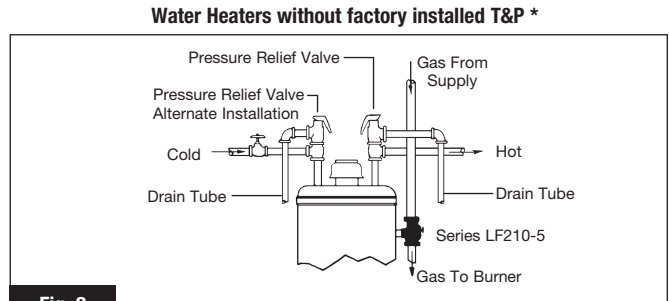


Fig. 2

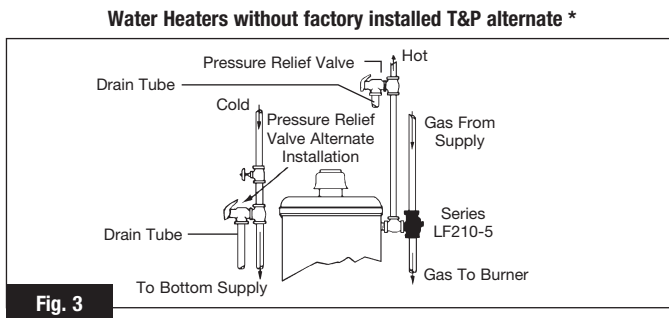


Fig. 3