

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

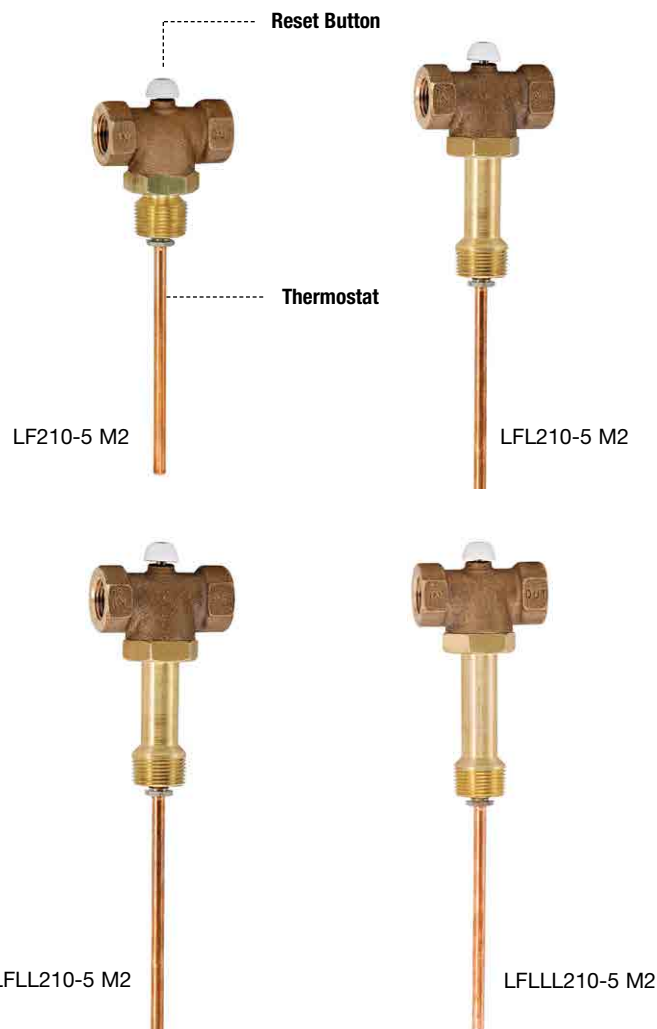
Models

- 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.



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.

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:

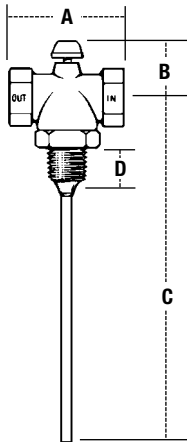
For use with natural gas: 150,000 BTU/hr.

For use with liquefied 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	1⅝	29	8	203	7/8	22	1.0	0.45
LFL210-5 M2	2½	64	1⅝	29	7 ¹³ / ₁₆	198	1⅞	48	1.0	0.45
LFL210-5 M2	2½	64	1⅝	29	8 ⁵ / ₁₆	211	2 ³ / ₈	60	1.0	0.45
LFLL210-5 M2	2½	64	1⅝	29	8 ¹³ / ₁₆	224	2 ⁷ / ₈	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, LFLL210-5 M2	¾" male	½" female	150,000	243,000	77,400	125,750



Water Heaters equipped with T&P valve

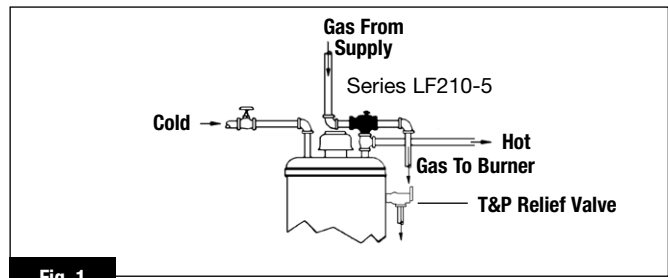


Fig. 1

Water Heaters without factory installed T&P*

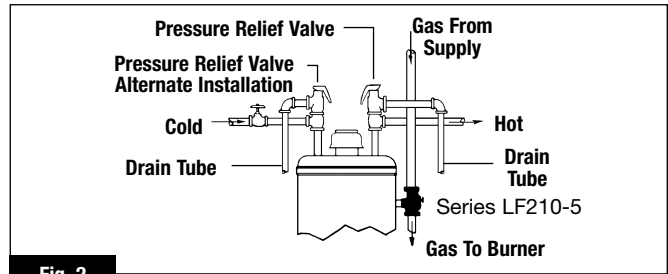


Fig. 2

Water Heaters without factory installed T&P alternate*

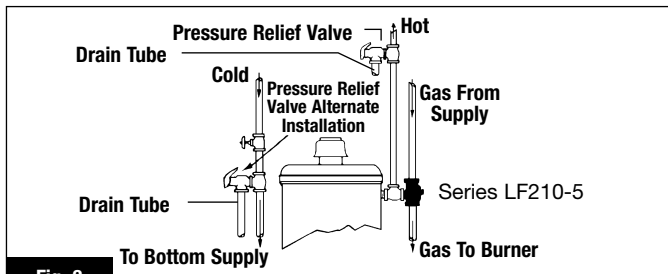


Fig. 3