

# For Gas Water Heater Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

## Series 210-5 Automatic Gas Shutoff Valves

Series 210-5 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 210-5 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.

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 L210-5 M2, LL210-5 M2 and LLL210-5 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.

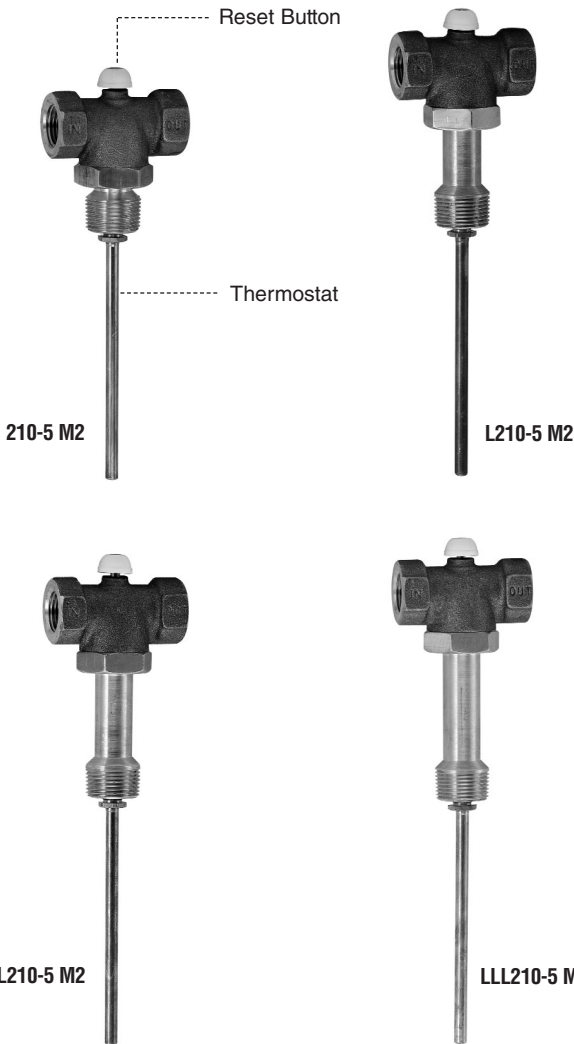
### Models

- 210-5 M2** Suitable for water heaters with up to 3/4" of insulation
- L210-5 M2** Suitable for water heaters with up to 2" of insulation
- LL210-5 M2** Suitable for water heaters with up to 2 1/2" of insulation
- LLL210-5 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.



**IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES  
FOR LOCAL INSTALLATION REQUIREMENTS**



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# Typical Installations

**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.**

**Note:** The installation of a separate pressure relief valve is necessary for installations using gas shutoffs.

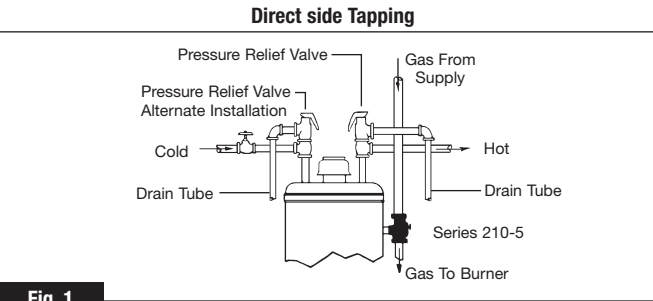


Fig. 1

## Dimensions — Weights

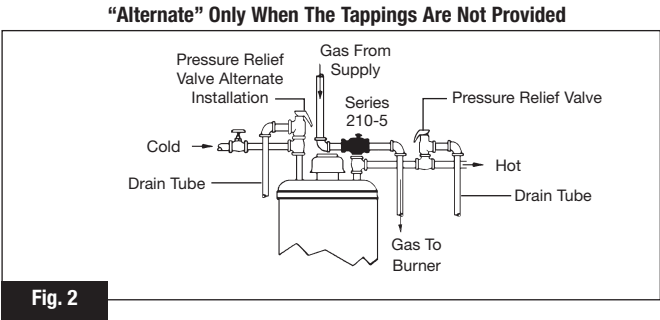
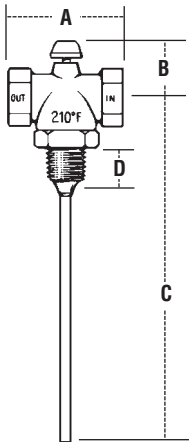


Fig. 2

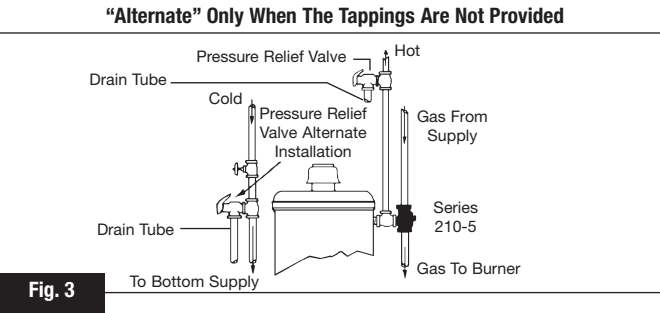


Fig. 3

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

| MODEL       | DIMENSIONS |    |     |    |        |     | WEIGHT |    |
|-------------|------------|----|-----|----|--------|-----|--------|----|
|             | A          |    | B   |    | C      |     | D      |    |
|             | in.        | mm | in. | mm | in.    | mm  | in     | mm |
| 210-5 M2    | 2½         | 64 | 1⅝  | 29 | 8      | 203 | 7⁄8    | 22 |
| L210-5 M2   | 2½         | 64 | 1⅝  | 29 | 7¹³⁄₁₆ | 198 | 1⁷⁄₈   | 48 |
| LL210-5 M2  | 2½         | 64 | 1⅝  | 29 | 8⁵⁄₁₆  | 211 | 2³⁄₈   | 60 |
| LLL210-5 M2 | 2½         | 64 | 1⅝  | 29 | 8¹³⁄₁₆ | 224 | 2⁷⁄₈   | 73 |

| Models                                       | Connections |           | Natural Gas | L.P. Gas | BTU/HR Ratings<br>M.F.G. and L.P.<br>Gas Air Mixtures | Mixed Gases |
|----------------------------------------------|-------------|-----------|-------------|----------|-------------------------------------------------------|-------------|
|                                              | Tank        | Gas       |             |          |                                                       |             |
| 210-5 M2, L210-5 M2, LL210-5 M2, LLL210-5 M2 | ¾" male     | ½" female | 150,000     | 243,000  | 77,400                                                | 125,750     |



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