Relief Valves

Diaphragm Actuated

Pressure Relief Only: Types N30, N30L

Installation Instructions

Pressure is common to all parts of a system so valve may be installed in either hot or cold water line but as near as possible to tank or heater. Run the drain pipe to open floor drain, never outside the building. Never install a valve of any kind in the drain line or obstruct in any way. The maximum set pressure is stamped on the valve body. Valves should be ordered to relieve not less than 25-30 lbs. above the maximum service main pressure but never above the maximum allowable working pressure of tank.

IMPORTANT

These valves protect against excessive pressure only. To prevent excessive temperature above 212°F, which might result in a hot water explosion, combined temperature and pressure protection is essential. WATTS Combination Temperature and Pressure Relief Valves below give this protection.



No. N30 without lever
No. N30L with lever

Temperature and Pressure Relief: Types M31SL, M31XL

Installation

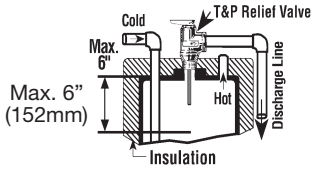
Combination temperature and pressure relief valves with extension thermostats must be installed so that the temperature-sensing element is immersed in the water within the top 6" (152mm) of the tank. They must be installed either in the hot outlet service line or directly in a tank tapping. Combination temperature and pressure relief valves that do not have extension elements must be mounted directly in a tank tapping located within the top 6" (152mm) of the tank. They shall be adequately insulated and located so as to assure isolation from flue gas heat or other ambient conditions that are not indicative of stored water temperature. To avoid water damage or scalding due to valve operation, drain pipe must be as short as possible and be the same size as the valve discharge connection throughout its entire length. Drain line must pitch downward from the valve and terminate at least 6" (152mm) above the floor drain where any discharge will be clearly visible. The drain line shall terminate plain, not threaded, with a material serviceable for temperatures up to 250°F (121°C) or greater. Excessive length, over 30' (9.14m), or use of more than four elbows can cause a restriction and reduce the discharge capacity of the valve. No shutoff valve shall be installed between the relief valve and tank, or in the drain line. Valve lever must be tripped at least once a year to insure that waterways are clear. This device is designed for emergency safety relief and shall not be used as an operating control.



No. M31SL

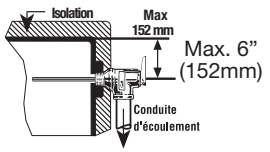
Correct Installation of T&P Relief Valves

For Heaters With Direct Top Tapping



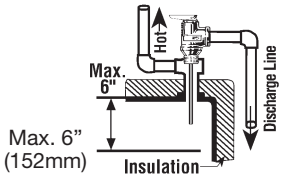
Always use an extension type thermostat T&P relief valve which permits the end of the thermostat to extend into the top 6" of the tank.

For Heaters With Direct Side Tapping



For internal flue heaters, a T&P relief valve with a short or standard length thermostat can be used. For external flue heaters, see below.

"Alternate" Only when the tappings are not provided





No. M31XL

IMPORTANT: 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 drain pipe must be the same size as the valve outlet, and must pitch downward from the valve.

NOTE: Product information is subject to change without notice and supersedes all previous publications.

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.
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The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.
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