

## For Water Heater/Tank Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Model LFN36-M1 Vacuum Relief Valve

Sizes: 1/2" – 3/4" (15 and 20mm) Male NPT

### Features

- Low profile
- All Lead Free\* brass body
- Protective cap
- Suitable for low pressure steam and water service
- Tested and rated to ANSI Z21.22
- CSA certified
- The LFN36-M1 features Lead Free\* construction to comply with Lead Free\* installation requirements.

### Applications

- Domestic water heaters and supply tanks
- Table top heaters
- Jacketed steam kettles
- Unit heaters
- Low pressure steam systems
- Steam coil heaters

**Note:** Vacuum relief valves are not designed or approved as backsiphonage backflow preventers. For protection against backsiphonage install Watts Series 288A vacuum breakers.

### Standards

Tested and rated to ANSI Z21.22

CSA certified

### Specifications

A Watts Model LFN36-M1 Vacuum Relief Valve shall be installed on domestic hot water supply tanks/ heaters/ unit heaters/ steam kettles as indicated on plans. The vacuum relief valve shall be ANSI Z21.22 rated and CSA certified. The vacuum relief valve shall have an all brass body and include a protective cap for automatic venting of a closed system to atmosphere when a vacuum is created. The Lead Free\* Vacuum Relief Valve shall comply with state codes and standards, where applicable, requiring reduced lead content. The Watts LFN36-M1 Vacuum Relief Valve permits air to enter and prevent vacuum conditions that could siphon the water from the system, resulting in collapse of a tank or water heater or equipment burn out. The valve shall be a Watts Model LFN36-M1.



LFN36-M1

Design certified by



Tested and rated under "ANSI Z21.22  
Relief Valves for Hot Water Supply Systems".

LFN36-M1

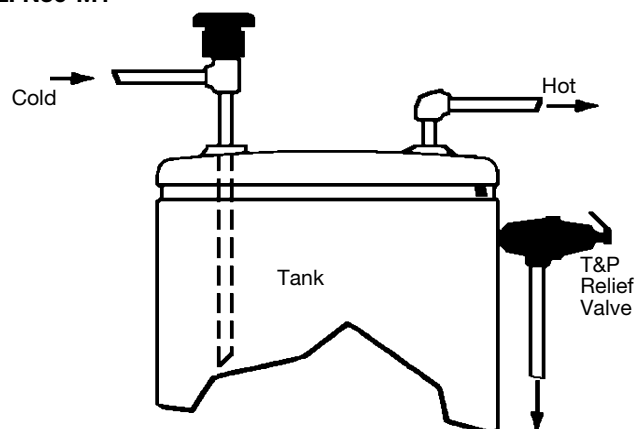


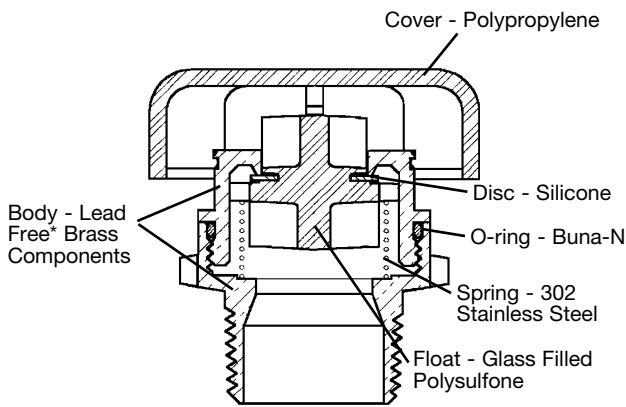
Figure 1  
Domestic Hot Water Supply Tanks and Heaters with  
Top Supply

\*The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (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.

# WATTS®

## Materials

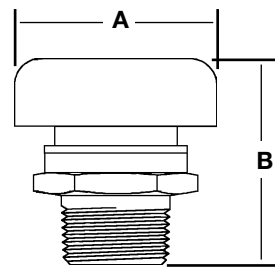


## Pressure/Temperature

**Maximum steam working pressure:** 15 psi (1.03 bar)

**Maximum temperature:** 250°F (121°C)

## Dimensions-Weights



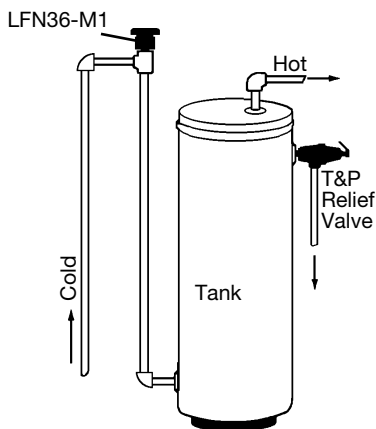
SIZE (DN)		DIMENSIONS				WEIGHT	
in.	mm	in.	mm	in.	mm	oz.	gr.
1/2	15	2	50	2	50	4	113
3/4	20	2	50	2	50	4	113

## Capacity

SIZE (DN)		VENTING CAPACITY	
in.	mm	MODEL	CFM LPM
1/2	15	LFN36-M1	15 425
3/4	20	LFN36-M1	15 425

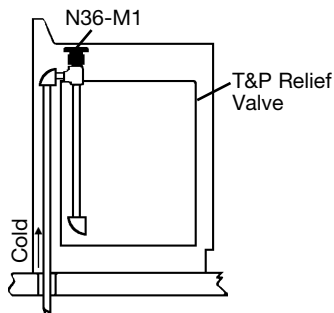
## Typical Installations

### Water Service



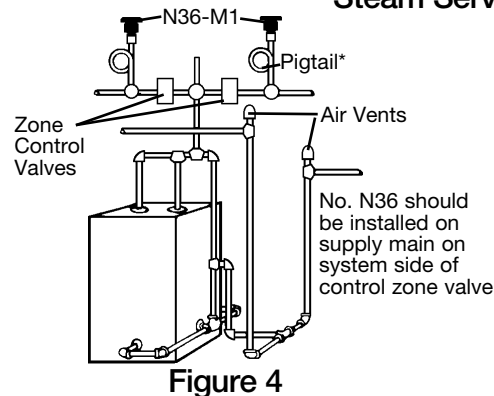
**Figure 2**

Domestic Hot Water Supply Tanks and Heaters with Bottom Feed



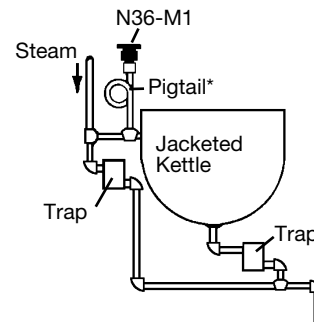
**Figure 3 -**  
Table Top Heaters

### Steam Service



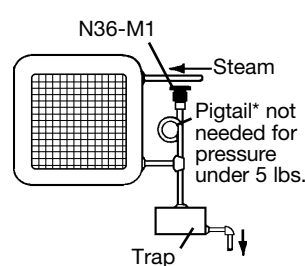
**Figure 4**

Low Pressure Steam Heating Systems

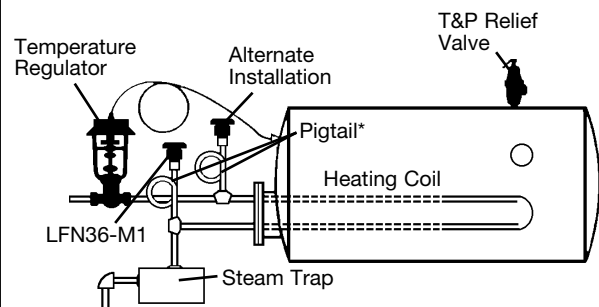


**Figure 5**

Jacketed Kettles



**Figure 6**  
Unit Heaters



**Figure 7**  
Steam Coil Heaters

**\*Note:** When used for steam service, be sure to use pigtail to prevent live steam from damaging N36 valve.

**WATTS®**

A Watts Water Technologies Company



**ISO 9001-2000**  
CERTIFIED

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com

Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca