HY-VENT® AUTOMATIC AIR VENT

Instruction Sheet

SPECIFICATIONS

- Structural Pressure 261 psi (18 bar)
- Working Pressure 159.5 psi (11 bar)
- Temperature Rating max. 230°F (110°C) water (no steam)
- Chrome Plated Brass Body and Cap



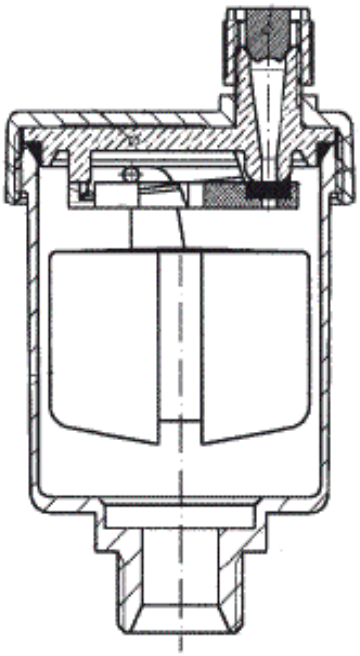
APPLICATION

The Hy-Vent® Automatic Air Vent purges air from liquid-filled systems. It is designed for use on closed hydronic systems. It is not used on systems contaminated with oil or petroleum based additives or on steam. The maximum temperature is 230°F (110°C), the maximum structural pressure is 261 psi (18 bar).

INSTALLATION

The air vent is installed at locations where air will accumulate. This is usually the highest point in the system. Before installing the vent, the system must be thoroughly cleaned. Otherwise, scale and debris might accumulate in the seat/disc area of the float assembly, potentially causing the vent to malfunction.

Always use a stop valve (isolating valve) beneath the air vent. This allows for the removal and servicing of the air vent without the need to drain the hydronic system. Moreover, we recommend installing the air vent on the supply line of the heating system. The pipe where the vent is installed should be extended. For proper operation, the vent must be mounted vertically. Screw the vent into the stop valve by hand. Since the stop valve comes with an integrated “O” ring, no additional sealants are needed.



Do not remove the vent cap on top of the air vent, as this may allow dirt particles to enter the valve and cause malfunction. For proper automatic operation, open the vent cap two full turns counterclockwise from the fully closed position.

MAINTENANCE

The air vent should be serviced regularly, depending on the condition and quality of the liquid in the system. For ease of maintenance, it is beneficial to install the vent in an accessible location. If dirt and scale cause the vent to leak, it can be replaced without draining the system, provided the stop valve is in place. In this case, a small amount of water may escape between the vent and stop valve during replacement.

OPERATION

The air vent features a removable float assembly which opens and closes the vent hole in the cap. If there is any air in the system, the air accumulates at the highest point where the air vent is installed. The level of the water reduces and pulls the lever of the float down. This opens the vent hole and allows air to pass up through the vent cap.

As the air is released, water replaces the air in the body of the vent and the float rises. This closes the valve.

Plant ID No. 001-5108 I Literature No. 102-583
Effective: 10/10/25 | Supersedes: NEW

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BRASS

Taco only uses brass that meets the ASTM C37700 and ASTM C38500 standards.

ADVANTAGES

- High venting capacity
- Chrome plated brass body and cap
- 100% electronic leakage control, with additional manual leakage checks according to AQL standards, and multiple inspections during manufacturing

DESIGN

Float-controlled air vent with a removable cap. The body and cap are made of brass, while the internal components of the vent and stop valve are made of stainless steel or heat-resistant plastic. All sealing elements are made of high-temperature and aging-resistant plastic.

LIMITED WARRANTY STATEMENT

Taco, Inc. ("Taco" or the "Company") will repair or replace without charge (at the Company's option) any Taco product or part which is proven defective under normal use within one (1) year of the date of first use or within one (1) year and six (6) months of shipment from Taco (whichever occurs first). In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify the local Taco stocking distributor or Taco in writing and promptly deliver the subject product or part, delivery prepaid, to the stock-ing distributor. For assistance on warranty returns, the purchaser may either contact the local Taco stocking distributor or Taco. If the subject product or part contains no defect as covered in this warranty, the purchaser will be billed for parts and labor charges in effect at time of factory examination and repair. Any Taco product or part not installed or operated in conformity with Taco instructions or which has been subject to misuse, misapplication, the addition of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty. If in doubt as to whether a particular substance is suitable for use with a Taco product or part, or for any application restrictions, consult the applicable Taco instruction sheets or contact Taco at [401-942-8000]. Taco reserves the right to provide replacement products and parts which are substantially similar in design and functionally equivalent to the defective product or part. Taco reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification.

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This warranty gives the purchaser specific rights, and the purchaser may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or on the exclusion of incidental or consequential damages, so these limitations or exclusions may not apply to you.

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Instruction Sheet

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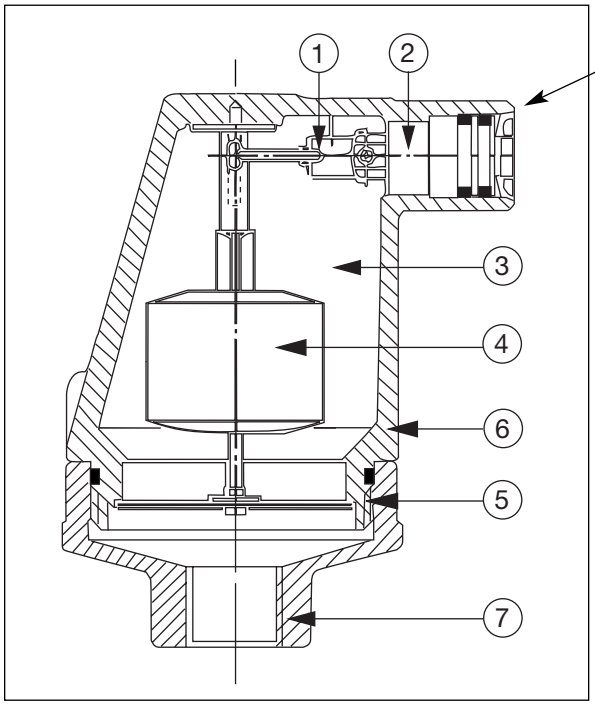
409 High Pressure Vent

SUPERSEDES: November 1, 2003 EFFECTIVE: October 1, 2007

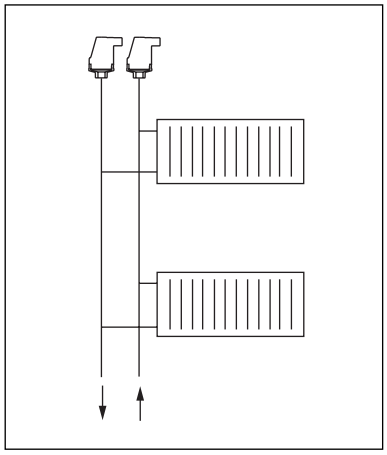
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INSTALLATION INSTRUCTIONS:

1. The Taco 409 has to be mounted in a vertical (or upright) position on places in a system where air collects naturally. It will not operate properly if installed at an angle, sideways, or upside down.
2. For the Taco 409 to vent air properly, the fill pressure of the system must always be higher than atmospheric pressure. If the atmospheric pressure is higher than the fill pressure of the system, outside air will be pulled into the system via the vent opening.
3. The Taco 409 is intended for installations filled with 100% water or approved glycol solutions (do not exceed 50% glycol) for hydronic heating systems. However, please check with your local dealer, distributor or representative when using other boiler or system additives.
4. The Taco 409 will arrive with its air valve open. The air valve can be closed off by turning the screw clockwise. However, for automatic performance, the vent valve must be open.
5. Please note that when installing a new system or retrofitting an old, you must flush out the disturbed dirt as well as any oily film or solder paste entrained in the system water. If this is not done, it is entirely possible that the internal float mechanism will become clogged open, causing the air vent to leak. For installations where possible property damage may occur due to fluid leaking from the vent, a ¾" ID hose may be clamped to the air vent outlet. The hose may then be fed to a drain or collection area designed for the fluid in use. **DO NOT USE A SOLDER CONNECTION AT THE OUTLET!**
6. Please leave these instructions with the end user.



CAUTION: Do not solder here. Product failure will result.



1. Gearing
2. Venting valve
3. Air chamber
4. Float
5. Protective filter
6. Housing (brass)
7. ¾" NPT connection

Maximum allowable working temperature: 240°F
Minimum allowable working temperature: 35°F
Maximum working pressure: 150 psi

LIMITED WARRANTY STATEMENT

Taco, Inc. will repair or replace without charge (at the company's option) any product or part which is proven defective under normal use within one (1) year from the date of start-up or one (1) year and six (6) months from date of shipment (whichever occurs first).

In order to obtain service under this warranty, it is the responsibility of the purchaser to promptly notify the local Taco stocking distributor or Taco in writing and promptly deliver the subject product or part, delivery prepaid, to the stocking distributor. For assistance on warranty returns, the purchaser may either contact the local Taco stocking distributor or Taco. If the subject product or part contains no defect as covered in this warranty, the purchaser will be billed for parts and labor charges in effect at time of factory examination and repair.

Any Taco product or part not installed or operated in conformity with Taco instructions or which has been subject to misuse, misapplication, the addition of petroleum-based fluids or certain chemical additives to the systems, or other abuse, will not be covered by this warranty.

If in doubt as to whether a particular substance is suitable for use with a Taco product or part, or for any application restrictions, consult the applicable Taco instruction sheets or contact Taco at [401-942-8000].

Taco reserves the right to provide replacement products and parts which are substantially similar in design and functionally equivalent to the defective product or part. Taco reserves the right to make changes in details of design, construction, or arrangement of materials of its products without notification.

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This warranty gives the purchaser specific rights, and the purchaser may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or on the exclusion of incidental or consequential damages, so these limitations or exclusions may not apply to you.

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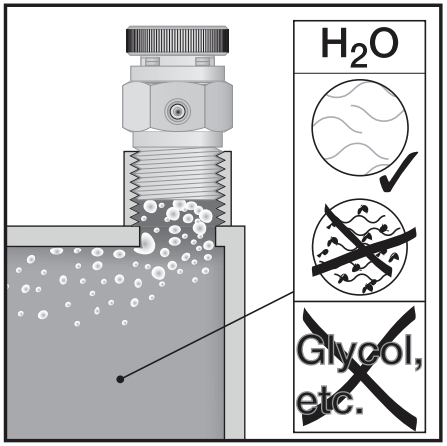
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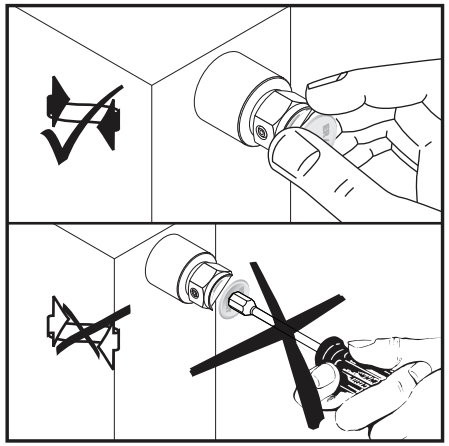
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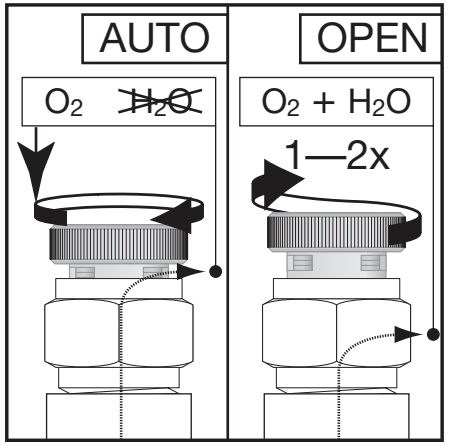
417 Vent

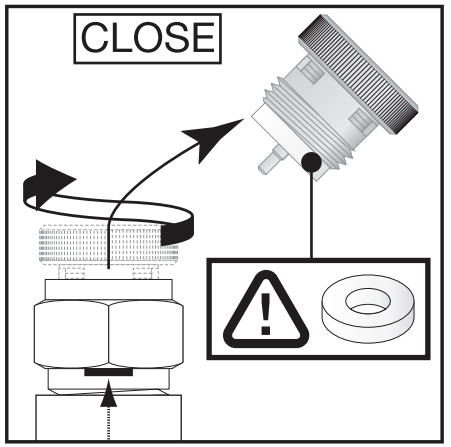
SUPERSEDES: New

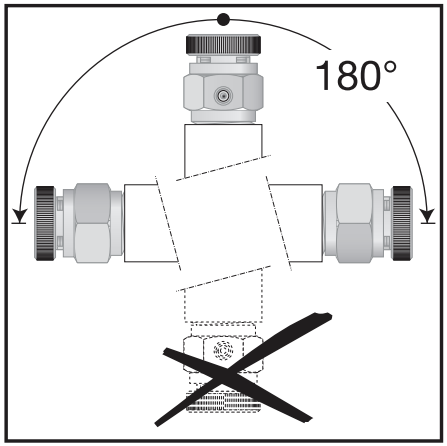
EFFECTIVE: March 1, 2009

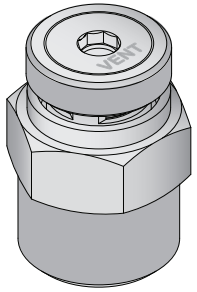












417 Vent

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