

Morrison Fig. No. 244 Series Emergency Vent

INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS

The 244 Series Emergency Vent is designed for use on aboveground storage tanks, as a code requirement that helps prevent tanks from becoming over-pressurized or rupturing if exposed to fire.

INSTALLATION: Mounting piping and connections to the tank must be fabricated so the emergency vent is in a vertical (plumb) position. Check interior of vent for foreign matter. O-ring surface should be clean and free of any dirt or particles. Verify cover is moving freely before and after placing into the system. Do not paint vent unless necessary. If painting, extreme caution must be exercised to make sure that the paint does not inhibit proper vent operation.

Note: There should be no reduction of pipe size between the storage tank and the Fig. 244 Series Emergency Vent.

Important: Install the included warning tag where it will be visible to the operator filling or unloading the tank that is fitted with this vent.

Threaded Connection:

Use standard piping practices when installing vents with threaded ends. Apply a fuel resistant, non-hardening, anti-seize sealant (non adhesive) to body threads. Morrison recommends thread sealant rather than Teflon® tape. Avoid over-torque, which may damage the vent.

Flange Connection:

The vent must be visually centered with respect to the flange faces. A gasket must be placed between the flange faces. Flanged bolting should be tightened gradually in a crisscross pattern. Bolting should be tightened sufficiently to prevent leakage and loosening of the joint.

Failure to follow any or all of the warnings or instructions in this document could result in a hazardous product spill, which could result in property damage, environmental contamination, fire explosion, serious injury or death.

Warnings

- Fire Hazard – Death or serious injury could result from spilled liquids.
- Install only on shop fabricated atmospheric tanks built and tested in accordance to industry standards such as UL142, NFPA 30 & 30A, and API 650.
- Install in accordance with all applicable local, state, and federal laws.
- 244 Series vents only provide emergency pressure relief and must be used in conjunction with a normal vent or pressure vacuum vent.
- 244 Series vents as well as normal vents and pressure vacuum vents must be properly sized and selected for each specific tank application.
- For your safety, it is important to follow local, state, federal and/or OSHA rules that apply to working inside, above, or around the storage tank and piping area. Use all personal protective equipment required for working in the specific environment.
- Tanks could be under pressure. Vapors could be expelled from tank vents, piping, valves or fittings while performing installation. Vapors could catch fire or cause an explosion. Avoid sparks, open flame, or hot tools when working on vents.
- Do not paint or cover vent. This will inhibit proper vent operation and may lead to personal injury/property damage.

MAINTENANCE: Annual inspection, and immediate inspection during freezing conditions, by someone familiar with the proper operation of the storage tank vents, is required to insure venting devices are functioning properly before filling or unloading a tank. If painting, extreme caution must be exercised to make sure that the paint does not inhibit proper vent operation.

WARNINGS

- Fire Hazard – Death or serious injury could result from spilled liquids.
- Clogged or restricted vents could cause damage to tanks and piping releasing liquids which could catch fire.
- Dust, debris, freezing rain, freezing condensation or other contaminants could clog or restrict the vents.
- In freezing conditions, inspect the vents immediately before filling or unloading a tank.
- Follow your employer's instructions for making sure vents are not clogged or restricted.
- You must be trained to inspect the vents. Stop now if you have not been trained.
- Do not fill or unload from a tank unless you are certain that the tank vents will operate correctly.
- For your safety, it is important to follow local, state, federal and/or OSHA rules that apply to working inside, above, or around the storage tank and piping area. Use all personal protective equipment required for working in the specific environment.
- Tanks could be under pressure. Vapors could be expelled from tank vents, piping, valves or fittings while performing maintenance. Vapors could catch fire or cause an explosion. Avoid sparks, open flame, or hot tools when working on vents.

Steps

1. Lift the cover of the vent all the way up and lower back down onto the body several times. The cover must move freely for the vent to work properly.
2. Replace the unit if sticking or binding occurs during step 1 above.
3. Inspect the vent, including the seal area, for dust, debris, snow or ice. Remove any that is found.
4. Inspect all vent components and surfaces for damage, corrosion or excessive wear. If any is found replace the vent.
5. Inspect the vent warning tag located near the tank fill and offloading area. If the tag is damaged or difficult to read, contact Morrison Bros. Co. at (800) 553-4840 for a free replacement tag.

OPERATING INSTRUCTIONS: The emergency vent requires no assistance during operation. During operation the cover will not open until internal pressure in the tank reaches approximately 16 ounces per square inch pressure.

If you need any further information on applications, special configurations, approvals, etc. please consult Morrison's catalog, contact Morrison, or visit our website at www.morbros.com.

WARRANTY: If you believe this vent has a defect due to material or workmanship, please contact Morrison for a return authorization. All products are thoroughly tested before shipment. Material found to be defective in manufacture will be replaced or repaired at our discretion. Claims must be made within one year from the date of installation. Morrison will not allow claims for labor or consequential damage resulting from purchase, installation or misapplication of the product.



Dubuque, Iowa 52001
800.553.4840 • 563.583.5028 Fax •
custserv@morbros.com
www.morbros.com

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