

354 Series Updraft Vents

Installation & Maintenance Instructions

The 354 Series Updraft Vent is designed for use on underground and aboveground storage tanks. If properly sized, installed and maintained the vent allows the tank to “breathe” during filling and dispensing operations.



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

Installation



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.
- 354 Series 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.

Steps

1. Inspect unit for shipping damage. Do not use if damage is found.
2. Check vent openings for foreign matter such as packaging material. Remove any that is found.
3. Insure mounting pipe (riser) is in the vertical (plumb) position.
4. Slip vent over riser pipe and tighten the two (2) set screws on the sides of the vent.
5. Do not paint or cover the vent in any manner. This may inhibit proper vent operation.

Note: There should be no reduction of pipe size between the storage tank and the Fig. 354 Series Updraft 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.



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Maintenance

Monthly 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.



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. Remove the vent by loosening the two (2) set screws and lifting the vent up off the riser pipe.
2. Remove the three (3) screws holding the cover on the vent and remove the cover.
3. Lift the screen carefully out of the body and clean. Compressed air can be used to clean screen.
4. Replace screen if it cannot be cleaned. Replacement screens are available from Morrison Bros. Co.
5. With the cover removed inspect the body and drain holes for dust, debris, snow or ice. Remove all such matter.
6. Re-install the screen.
7. Re-install the cover and screws.
8. Re-install the vent onto the riser pipe and tighten the two (2) set screws.
9. 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.

During maintenance procedure inspect all vent components and surfaces for damage, corrosion or excessive wear. If any is found, replace the vent.



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