

Fig. 346 External Emergency Valve

Installation & Maintenance Instructions

The 346 Series valves are designed to shut off liquid flow in the event of a fire. A fusible link is used to hold open a spring actuated lever. When the fusible link melts the spring actuated lever is released to close the valve.



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 in accordance with all applicable local, state, and federal laws.
- 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.
- Piping could be under pressure. Liquid and vapors may be expelled from the piping, valves or fittings while performing installation. Liquids and vapors could catch fire or cause an explosion. Avoid sparks, open flame, or hot tools when working on valves.

Steps

1. Inspect valve for shipping damage. Do not use if valve is damaged. Call Morrison Bros. Co. for assistance.
2. Inspect valve openings for foreign matter such as packaging material. Remove any that is found.
3. Prior to mounting the valve in the piping, manually open and close the valve several times making certain that the handle travel is free from sticking or binding. Next open the valve handle to the fully open position and release the handle. **Keep all body parts out of handle travel path.** The valve should snap shut. If any binding or sticking is found, or the valve will not snap shut, do not use the valve. Call Morrison Bros. Co. for assistance.
4. Verify the intended direction of liquid flow. The 346 Series valves can be mounted in the horizontal plane or the vertical plane. If installing in the horizontal plane, the valve cap **MUST** be pointing straight up. If installed in the vertical plane the liquid **MUST** be flowing downward through the valve.
5. The valve will be marked with either a flow direction arrow or the words INLET and OUTLET. Make certain to install the valve such that the flow of liquid through the valve corresponds to the flow arrow or the inlet and outlet indicators.
6. If valve has threaded connections, apply a non-hardening, fuel resistant thread sealant to the male threads of the pipe. When threading valve onto the piping, and piping into the valve, make certain to wrench on the valve hex closest to the end you are threading.
7. If valve has flanged connections, install a compatible gasket between the valve flanges and the pipe flanges. Install the appropriate mounting bolts and nuts. Gradually tighten bolts in a crisscross pattern.
8. Before filling the tank, manually open and close the valve several times making certain that the valve handle is free from interference. Also make certain that there is no sticking or binding in the travel of the handle. If any sticking or binding is found do not use the valve. Call Morrison Bros. Co. for assistance.
9. Manually open the valve to full open position and release the handle. Keep all body parts out of handle travel path. The valve should snap shut. If this does not occur, do not use the valve. Call Morrison Bros. Co. for assistance.
10. The tank may now be filled. During filling, inspect the piping and valve for leaks. Repair as is necessary.

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Maintenance Instructions on Back

Annual inspection, at a minimum, is required to verify proper valve function.



WARNINGS

- **Fire Hazard** – Death or serious injury could result from spilled liquids.
- Follow your employer's instructions for inspecting valves.
- You must be trained to inspect these valves. Stop now if you have not been trained.
- 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.
- Valves and piping could be under pressure. Liquids and vapors could be expelled from tank piping, valves or fittings while performing maintenance. Liquids and vapors could catch fire or cause an explosion. Avoid sparks, open flame, or hot tools when working on valves.

Steps

1. Release the hold open hook while holding the valve handle.
2. Manually close and open the valve several times. Make certain there is no sticking or binding during this process. If any sticking or binding is found, call Morrison Bros. Co. for assistance.
3. Manually move the valve handle to the full open position and release the handle. **Keep all body parts out of handle travel path.** The valve should snap shut. If this does not happen, repeat step 2 and try again. If the valve still does not snap shut, call Morrison Bros. Co. for assistance.
4. Inspect the fusible link and hold open hook for signs of wear, damage, or corrosion. If any is found replace the parts with original replacements from Morrison Bros. Co.
5. Inspect cap gasket for damage or leaks. If either is found replace the cap gasket with an original replacement from Morrison Bros. Co.
6. Inspect the valve shaft for sign of leakage. If any is found replace the shaft o-ring with an original replacement from Morrison Bros. Co.
7. Inspect the valve body for damage, leaks or excessive corrosion. If any are found replace the valve.
8. Manually open the valve and secure the hold open hook.



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