

## Fig. 446 Emergency Shut-Off Valve

### Installation & Maintenance Instructions

The 446 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.

**NOTE:** Valve is rated to an operating pressure of 50 psi within the temperature range of -20°F to 125°F.



**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.**



**Le fait de ne pas se conformer à l'un ou l'autre des avertissements ou à l'une ou l'autre des directives apparaissant dans ce document pourrait donner lieu à des déversements de liquides dangereux, lesquels pourraient engendrer des dommages matériels, des risques de contamination environnementale, d'incendie ou d'explosion, des blessures graves ou la mort.**

### Installation



#### WARNINGS

- **Fire Hazard** – Death or serious injury could result from spilled liquids.
- Any modification of this unit beyond what is outlined in this instruction will void product warranty.
- 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.
- Maximum pressure is 50 psi.
- 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.



#### AVERTISSEMENTS

- **Risque d'incendie** – Un déversement de liquide pourrait entraîner des blessures graves ou la mort.
- Toutes les modifications apportées à cette unité autres que celles indiquées dans ces directives engendreront l'annulation de la garantie du produit.
- Lors de l'installation, conformez-vous à toutes les lois locales, d'État et fédérales applicables.
- Pour assurer votre sécurité, il est important de vous conformer à la réglementation locale, d'État, fédérale ou OSHA régissant les travaux à l'intérieur, au-dessus ou autour du réservoir de stockage et de la zone de canalisation. Utilisez tout l'équipement de protection individuelle exigé pour travailler dans l'environnement spécifique.
- La pression maximale est de 50 psi.
- Les canalisations pourraient être sous pression. Des liquides et des vapeurs pourraient être expulsés des canalisations, des soupapes ou des raccords durant l'installation. Les liquides et les vapeurs pourraient s'enflammer ou engendrer une explosion. Évitez les étincelles, les flammes nues ou les outils chauds lors de travaux menés avec les soupapes.

## 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 446 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 is marked with a flow direction arrow. Make certain to install the valve such that the flow of liquid through the valve corresponds to the flow arrow indicator.
6. Install valve to piping. 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. Improper wrenching can cause separation of valve components resulting in leakage.
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.
11. Do not paint valve unless necessary. If painting, extreme caution must be exercised to make sure that the paint does not inhibit proper valve operation.



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## Maintenance

**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 unit.
- You must be trained to maintain this valve. **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.



## AVERTISSEMENTS

- Risque d'incendie – Un déversement de liquide pourrait entraîner des blessures graves ou la mort.
- Suivez les instructions de votre employeur pour l'unité d'inspection.
- Vous devez avoir reçu une formation pour assurer la maintenance de cette soupape. Arrêtez-vous immédiatement si vous n'avez reçu aucune formation à cet effet.
- Pour assurer votre sécurité, il est important de vous conformer à la réglementation locale, d'État, fédérale ou OSHA régissant les travaux à l'intérieur, au-dessus ou autour du réservoir de stockage et de la zone de canalisation. Utilisez tout l'équipement de protection individuelle exigé pour travailler dans l'environnement spécifique.
- 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 fuse link from stud on body 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 for signs of wear, damage, or corrosion. If any is found replace the parts with original replacements from Morrison Bros. Co.
5. Inspect the valve body for damage, leaks or excessive corrosion. If any are found replace the valve.
6. Manually open the valve and secure the fuselink.
7. Do not paint valve unless necessary. If painting, extreme caution must be exercised to make sure that the paint does not inhibit proper valve operation.



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