

Fig. 646 Wafer Check Valve

Installation & Maintenance Instructions

The 646 valve is designed to provide single-direction flow in a horizontal pipeline and/or isolate product in a multi-product handling system. The 646 is a slim design check valve that is installed between two 150# raised face flanges.



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, verify the intended direction of liquid flow. The 646 valve must be mounted in the horizontal plane with the eye-bolt pointing straight up.
4. The valve is marked with a flow direction arrow on the label on the side of the valve. Make certain to install the valve such that the flow of liquid through the valve corresponds with the flow arrow.
5. Use the eye-bolt to hold the 646 valve in position between the two raised face flanges between which the valve is to be mounted. The 646 valve is designed to fit inside of the bolt circle of the flange bolts.
6. Use appropriate gaskets between the 646 valve and the flanges on both sides of the valve. Hold the 646 valve and a gasket on each side of the valve, between the 646 valve and the flanges. While holding these in place, begin to slide the bolts through the flanges and gaskets. Remember, the 646 valve fits inside of the bolts.
7. Once you have the 646 valve and gaskets, and all of the appropriate bolts, nuts and washers loosely installed, you can begin to gradually tighten the bolts in a crisscross pattern until all are tightened.
8. You may now introduce liquid into the valve. Inspect the valve and piping connections for leaks. Repair as necessary.



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Maintenance Instructions on Back

Maintenance

Annual inspection, at a minimum, is required to verify valve condition and operation.



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. Inspect the valve body for damage, leaks, or excessive corrosion. If any are found replace the valve.
2. Inspect the flange gaskets for damage or leaks. If any is found, replace the flange gaskets per steps 6 through 8 in the installation portion of this document.



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