

Fig. 246 Swing Check Valve

Installation & Maintenance Instructions

The 246 Series valves are designed to provide single-direction flow in a horizontal pipeline and/or isolate product in a multi-product handling system.



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 246 Series valves must be mounted in the horizontal plane with the valve cap pointing straight up.
4. 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 with the flow arrow.
5. If the valve has threaded connections, apply a non-hardening, fuel resistant thread sealant to the male threads of the pipe. When threading the valve onto the piping, and the piping into the valve, make certain to wrench on the valve hex closest to the end you are threading.
6. 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.
7. You may now introduce liquid to the valve. Inspect the valve and piping for leaks. Repair as is 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 cap gasket for damage or leaks. If either is found replace the cap gasket with an original replacement from Morrison Bros. Co.
2. Inspect the valve body for damage, leaks, or excessive corrosion. If any are found replace the valve.
3. To replace the cap gasket, drain the pipe of liquid and pressure. Remove the valve cap and old gasket. Clean the area where the gasket seals on the body and cap. Install the new gasket on the cap. Apply a non-hardening, fuel resistant thread sealant to the male threads of the cap. Thread the cap into the body and tighten. Do not over-tighten the cap to the point where the gasket starts pushing out. Introduce liquid back into the pipe and watch the gasket for leaks. If leaks are found, try tightening the cap slightly. If leaks still persist, replace the valve.



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