



The quality name



INSTALLATION AND MAINTENANCE MANUAL

FOR

THREADED ENDS SWING CHECK VALVES

MODEL#: N-690

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Product Description

Threaded ends swing check valve consists of cast body with screwed bonnet cap. The inside body is conical shaped to allow easy flow of fluid with solid concentration. The disc is mounted inside the body with a hinge pin. The pin is held in its position with a screwed plug on the side.

Our check valves are designed to open when a pressure of less than 1.5 Bars is applied across the face of the disc. The valve can be easily installed on the pipelines using threaded ends.

Some of highlighted features of this valve are:

- No maintenance cost
- No spare parts needed
- Minimum Pressure Drop
- Minimum Leakage with Metal to Metal Seat

General Application

These valves are designed for a wide range of applications and valve pressure varies with size, working temperature and material of construction. Please verify the application within the limits specified on valve body or attached name plate. Always consult factory for more details.

Storage Instructions

1. Keep the valve wrapped and end protection on until it is not ready for installation. This will reduce the possibility of foreign material damaging internal valve components.
2. Apply anti rust grease or paint to the external surface exposed to atmosphere.
3. Do not store valve outdoor.

Installation Instructions

1. Remove the protective covering from the screwed ends and remove any anti rust grease applied to the valve parts by using the solvent.
2. The internal parts of the valve have to be inspected to make sure there is no debris or foreign material in the valve body.
3. Clean the pipe ends and make sure they are free from debris also.
4. Install the valve according to the flow direction on the valve body and make sure the valve comply with flow plan of the pipeline.



Maintenance Instructions

This valve needs no routine maintenance other than periodic inspection. The replacement of parts, such as bonnet or plug gasket is not performed until required. The end user can plan their own maintenance schedule based on usage and service conditions.

Operation Instructions

The swing check valve's operation is automatic and requires no assistance. When the fluid exerts sufficient pressure on the disc to overcome its weight and the disc which is hinged, lifts allowing the flow to continue through the piping system. As the pressure decreases, the disc lowers until its own weight forces it to seat. The reverse flow of fluid forces disc against the seat and avoid any back flow.

Precautions

- Make sure the valve's material of construction is compatible with the fluids being handled.
- Pressures and temperatures must be kept within the limits specified by appropriate ANSI standards
- The valve must be installed with the arrow pointing in the correct direction.
- It is end user's or the contractor's responsibility to determine that the valve is appropriate for the intended application.
- Flow rate must be within acceptable limits. Too high a rate may cause extreme pressure drops and erosion of the components. Too low a flow may cause the disc assembly to oscillate and cause wear which may lead to premature failure of the internals.
- Care should be taken in handling the valve. Mishandling may cause damage of the sealing components or damage to the externals.