

Check Valve – Lift Type

(Sizes 1½-24"; DN40-600)

Description

The Model 70N Check Valve is a non-slam, lift type, non return valve that opens to allow flow in the required direction and smoothly closes drip tight to prevent back flow.

Installation

1. Ensure enough space around the valve for future maintenance.
2. Prior to installation, flush the pipeline to insure flow of clean fluid through the valve.
3. For future maintenance, install Isolation gate valves upstream and downstream from Bermad valve.
4. Install the valve in the pipeline with the valve flow direction arrow in the actual flow direction. Use the lifting ring provided on the main valve cover for installing the valve.
5. For best performance, it is recommended to install the valve horizontally and upright. For different valve positions – consult Bermad.
6. It is highly recommended to install a strainer Bermad model 70F upstream from the valve, to prevent debris from damaging valve operation.

Commissioning

1. Open fully the isolating valves.
2. Confirm that the supply pressure and the flow through the system are typical. If necessary, create flow by opening a hydrant, or reduce the flow/pressure by adjusting the downstream/upstream isolating valves.

Trouble-Shooting

1. **Valve fails to Open:** Check for sufficient inlet pressure, create demand/flow.
2. **Valve fails to Close:** Check for sufficient downstream line pressure, check if any debris trapped in the main valve.

Preventative Maintenance

1. System operating conditions that effect on the valve should be checked periodically to detemrent the required preventative maintenance schedule.
2. Maintenance instructions:
 - 2.1. Tools required: Metric and imperial wrenches, anti seize grease
 - 2.2. Visual inspection to locate leaks and external damages
 - 2.3. Close upstream and downstream isolating valves
 - 2.4. Once the valve is fully isolated vent pressure.
 - 2.5. Open the cover nuts and remove the internal assembly as one unit from the valve body.
 - 2.6. It is highly recommended to stock a reserve internal assembly for each size. This allows minimum system field work and system down time.
 - 2.7. Disassemble the internal assembly and examine its parts carefully for signs of wear, corrosion, or any other abnormal conditions.
 - 2.8. Replace worn parts and all the Elastomers. Lubricate the bolts and threads with Anti seize grease.

Spare parts

Bermad has a convenient and easy to use ordering guide for valve spare-parts and control system components. For solenoid valves refer to model and S/N on solenoid tags.

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