Resilient-Seated Butterfly Valve
Model No.: LF-BFVWW / LF-BFVGG

Installation, Operation & Maintenance

In line with our policy of continuous product improvement LIFECO reserves the right to modify specifications without prior notice.

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APPLICATION

Resilient-Seated Butterfly Valves indicate type valves designed for use in fire protection systems where a visual indication is required as to whether the valve is open or closed. They are used, for example, as a system, sectional, and pump water control valves. Wafer, Lug, and Grooved type connection are available.

For applications requiring supervision of the valve's open position, the Gear Operators for the Butterfly Valves are provided with two sets of factory-installed internal switches, each having SPDT contacts. The supervisory switches transfer their electrical contacts when movement from the valve's normal open position during the handwheel's first two revolutions.





INSTALLATION

Resilient-Seated Butterfly Valve described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices. The owner is responsible for maintaining their fire protection system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Resilient-Seated Butterfly Valve may be installed with the flow in either direction and can be positioned either horizontally or vertically.

The valve may be installed with any pressure class or schedule of pipe or tubing no greater than schedule 40 that is listed or approved for fire protection service and installed following the manufacturer's instructions.

Bolts and studs for the connection must meet the minimum strength requirements of ASTM A307 (Grade B), and the nuts must meet the minimum strength requirements of ASTM A563 (Grade A).

Before installation:

1. Close the valve.
2. Spread the flanges or couplings apart to allow the valve to slip easily between the flanges.
3. Ensure the pipe flange or couplings faces are clean of any foreign material such as scale, metal shavings, or welding slag.
4. Do not apply lubricant to the seal faces as this may damage the seat material.
5. Center the valve and do not damage the liner.
6. Relax the separation of the flanges or couplings, install, and hand-tighten all bolts.
7. Slowly open the valve, checking for free movement of the disc. If the valve opens freely, leave the valve in the open position, and using a cross-draw sequence, tighten all bolts.
8. Be sure to keep flange or couplings faces as parallel as possible during and after tightening bolts or studs. After the final tightening, again check the valve for full opening and closing.

Conduit and electrical connections are to be made following the authority having jurisdiction and/or the National Electrical Code. The supervisory switch is intended for connecting to the supervisory circuit of a fire alarm control panel following NFPA 72. The auxiliary switch is intended for the unsupervised connection to auxiliary equipment following NFPA 70, National Electric Code.

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STOP ADJUSTMENT PROCEDURE

The gear operator's OPEN and SHUT position should follow the factory set. The following procedure should be used if slight adjustments are needed.

Turn the Handwheel until the valve is fully closed.

1. Remove the two Lock Screws from the gear operator body.
2. Turn the Shut Stop Screw clockwise until snug.
3. Turn the Handwheel until the valve is fully open.
4. Turn the Open Stop Screw clockwise until snug.
5. Close the valve by turning the Handwheel until the valve is entirely in the closed position. Ensure the disc has returned to the fully closed place, and the disc is centered in the seating area. Readjust the Shut Stop Screw if necessary.
6. Replace the two Lock Screws into the gear operator body, locking the stops into position.

CARE AND MAINTENANCE

Resilient-Seated Butterfly Valve must be maintained and serviced following this section.

Before closing control valves for maintaining or inspecting work on either the valve or the fire protection system it controls, it is necessary to obtain permission to shut down the affected fire protection systems from the proper authorities. All personnel who may be affected by this decision must be notified.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices according to the applicable standards of the National Fire Protection Association (e.g., NFPA 25) in addition to the means of any authority having jurisdiction. Contact the installing contractor or product manufacturer with any questions. Any impairment must be immediately corrected.

It is recommended that automatic sprinkler systems be inspected, tested, and maintained by a qualified inspection service.

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