



# BUTTERFLY VALVES

## How to use your RWV 937 and 938 series butterfly valves. (Installation, Operation and Maintenance Instructions).

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RED-WHITE VALVE CORP. assumes no responsibility for any damages or injuries resulting from non-compliance with installation instructions or standard good practice when installing, operating or maintaining the valves, even if not explicitly mentioned in these installation instructions.

### GENERAL INFORMATION

RWV butterfly valves are produced in a wide range of ratings and connections. Instructions apply to the RWV valve models 937 and 938.

The RWV butterfly valves are ON/OFF valves operated manually that can be equipped with optional pneumatic or electric actuators.

The Fig. 937 and 938 valves can be used with water mixed with ethylene glycol or propylene glycol up to 50%. Compatibility with fluids different from water has to be checked with RWV. RWV suggests to avoid using butterfly valves in intermediate opening positions. Use of positions below 30° should be avoided in any case. See the RWV technical sheets for further information. Please contact RWV for models not listed above.

### CHOICE OF THE VALVE

We recommend using valves made of a material suitable for the specific application. Details of the materials used for each model are listed in the specific valve technical sheet. Please refer to your local water authority for compatibility with the materials contained in this products. RWV cannot be held responsible for failures caused by the quality of the water in combination with an unsuitable material chosen for the valve.

Models 937BESGAB, 937BESLAB, 938BESGAB and 938BESLAB are NSF/ANSI/CAN 61-2020 and 372-2020 approved for use with drinking water.

### PRESSURE AND TEMPERATURE RATINGS

| Model    | Non-shock pressure at temp. range  |
|----------|--|
| 937, 938 | 200psi (size 2"-12"), 150psi (size 14"-up) from 5°F to 250°F (from -10°C to 120°C) |

Working conditions:

Water: from 15°F to 250°F

below 32°F only for water with added antifreezing fluids

over 212°F only for water with added anti-boiling fluids

The operative conditions shown above are intended for non-shock operating conditions: water hammer, impacts, stress loads, corrosive or erosive external environmental elements and the transport of fluids with abrasive properties should be avoided.

## STORAGE

The valves should be stored with the disc in the partially open position to protect the sealing edge and prevents the liner from taking a temporary set. The valves should be stored indoors in a clean, dry, well-ventilated place away from corrosive materials and protected from excessive dust and dirt. Keep the valves out of direct sunlight and in a cool location to prolong elastomer life.

## VALVE INSTALLATION

To ensure the proper operation of RWV butterfly valves it is advisable to follow the following indications. Prior to installation, verify the valve is suitable for the pressures, temperatures, operating fluids and environment in which it will be installed. It is the responsibility of the installer and/or of the facility designer to ensure that the application does not exceed the limits of pressure and temperature of the valve and is carried out in accordance with local current laws and regulations.

The position chosen for the installation should allow for accessibility to the valve during operation, inspection and maintenance. Install the valves on pipes of their same nominal size.

Pipe ends should be void of any burrs and not protrude inside the bore or obstruct any part of the flow (it's advisable to flush the line after installation or after performing maintenance on the system).

During installation do not subject the valve to any torsion, bending or tension. We recommend to properly support the pipe with supports. Do not to overload the valve with any unexpected additional stresses.

The seal is guaranteed by the valve seat there's no need for an additional gasket between the valve and the flanges (or counterflanges). Verify that the part of connecting flanges in contact with the valve is flat and without any raised parts so that the rubber seat is in contact with a smooth surface. The surface must not have any unevenness that could scratch the rubber; verify that the inner flange (or counterflange) diameter is sufficient for the rubber seat to completely lean against the mating flange (or counterflange), with no parts going over the inner or outer edge of the flat surface.

When in the open position, the disc extends outward from the valve body. Valves should be installed with the disc in the closed position to prevent damage to sealing surfaces. Also verify that the disc opens properly without striking the piping or other components.

Ensure the bolts are of the proper length and thread. Tighten the bolts using a "crossover pattern" to evenly distribute the pressure on the rubber. It's mandatory to use a counterflange when installing a valve as an end-of-line element.

RWV butterfly valves are bi-directional and may be installed with flow in either direction. These valves can be installed in any horizontal or vertical position. If a choice of stem positions exists, the valve should be installed with the stem in the horizontal position; this will minimize seat wear by distributing the stem and disc weight evenly.

## USE AND MAINTENANCE

Valves must be replaced in case of leakages and/or damages. Wear proper protection gear when performing any maintenance and depressurize the line before taking any action.

RWV declines any direct or indirect responsibility in case of improper use, tampering, modification or dismantling of the valves. The improper use, tampering and/or modification on any part of the valve, voids the warranty and liability for any failure or damage as well as any applicable Certification.

## DISPOSAL

At the end of their life cycle it will be possible to remove the valves from the system, following a procedure adequate to the type and conditions of the system.

Dispose of the valves according to the current environmental, health and safety regulations in force in the place of the installation. If no specific regulations apply in the region RWV recommends:

- to recycle the metallic parts as raw material;
- to dispose of the rubber elements through specialized companies as they may have been contaminated by fluids and/or lubricants while in use;
- to dispose of the packing elements through the separate collection system available in the place of installation.

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