

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Sanitary Line Check Valves

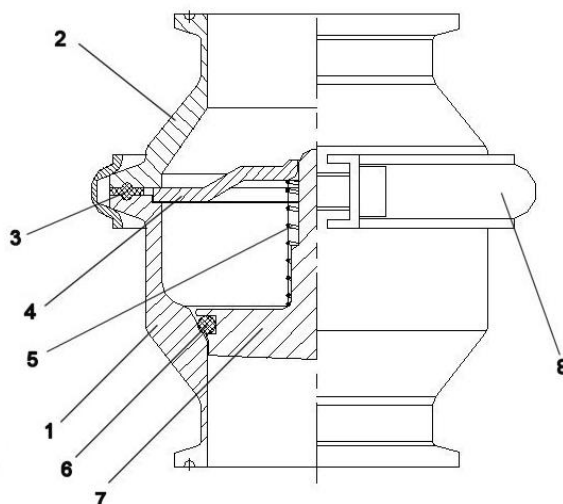


Ref. GENE BRE: 2934 – 2935 – 2936

Installation, operation and maintenance instructions

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1) Breakdown drawing.



1.1) List of components:

Nº	Name	Material	Surface Treatment	Spare Part Code
1	Body	S.S. AISI 304 / 316L	-----	-----
2	Body Cap	S.S. AISI 304 / 316L	-----	-----
3*	Gasket	Silicone		K2934**
4	Bush Guide	S.S. AISI 304 / 316L	-----	-----
5*	Spring	AISI 301	-----	K2934**
6*	Seat	EPDM	-----	K2934**
7	Stem	S.S. AISI 304 / 316L	-----	-----
8	Clamp bracket lock	S.S. AISI 304	Mechanical Polish	-----

* Available spare parts

** For sizes 2" and 2 1/2" use code K2935

2) Storage

During storage it is recommended to keep the product in the included protective wrapping to avoid damages or dirt accumulation. The wrap must not be removed until element is to be installed. As much as possible, it must be stored in a dry and clean environment.



Transport and storage of these devices must be done in their original wrapping.

VISUAL INSPECTION

Check whether during transport, unloading and placement, devices have suffered no damages.

MECHANICAL INSPECTION

Check whether all mobile parts of the different devices, as well as the screws and other elements, are accomplishing their purpose.



If you notice any kind of anomaly during reception of the goods, contact immediately with GENE BRE in order to determine the possible responsibilities on the issue and make the devices fully operational.

IMPORTANT NOTE:

Before installing and/or manipulating these elements, READ CAREFULLY these instructions for use and OBSERVE all contained information. If you fail to understand any of their content, please contact GENE BRE, S.A.



User is responsible for the safe use of these devices, as established in present instructions for use and in the specific technical documentation of the device.

3) Installation instructions

3.1) Preparation

Remove any remains of packaging from the valve.

There might be serious problems caused by valves installed in a dirty pipe.
Make sure the pipe is free of dirt, welding particles, etc. before installation, since the valve might suffer irreparable damage when the equipment is turned on → *prepare a clean working area*.
Plan enough space for future maintenance operations.

Check correct performance of the valve by pushing the *disk* (part.8) in the direction of the flow and making sure it goes back to the original position once it is released. If this is not the case, check if there are foreign particles inside the valve and repeat the whole operation. If the disk does not slide smoothly, valve must not be installed.

It is recommended to perform this task under qualified professional surveillance.

3.2) Valve Installation

- Threaded ends valve (DIN 11851)

Do not disassemble the valves to install them.

Make sure the valve's pipe and thread ends are clean and are compatible one with another. Place the joints (art. 2957-Genebre) between the ends to keep them tight and join them together with a nut (art. 2954-Genebre).

- Clamp ends valve

It is not necessary to disassemble the valve in order to install it.

Make sure the pipe's clamp and the cover (pos.2) clamp are clean. Place the silicone joints (art. 2987-Genebre) between the clamp ends to keep them tight and join them together with a quick locking binding clamp (art. 2986-Genebre). There is a different joint and binding for each valve size.

- Welded ends valve

- a) Before weld the valve disassembling it as indicated in the Section 6.1.
- b) Weld the connections (pos.1) to the pipes. All components must be stored in a dry and clean environment.
- c) When cold, clean the edges' locking surfaces and then assembly the valve as indicated in the Section 6.2.



¡The welding work must only be carried out by properly qualified personnel!

IMPORTANT INFORMATION:

Design of this type of valves can only be placed in vertical position (ascendant fluid).

Valves do not have to support pipe's efforts so it is advisable to anticipate a good alignment and parallelism of such pipe.

4) Operational instructions

4.1) Usage

Before starting the equipment, you have to read the Technical Specifications and never exceed the limit values.

Never touch the valve and/or pipes in contact with surrounding fluid when the process is started; you can suffer from injuries such as burns.

The check valves provide a leak proof lock when used adjusted to the pressure and temperature values for which they have been designed.

- The operation in extreme temperature conditions exceeding the design limits may damage internal and external parts, and it might be potentially hazardous for the operating or maintenance personnel.
- The operation in extreme pressure conditions exceeding the design limits may cause a malfunction and the spontaneous breakage of parts and, therefore, might be potentially hazardous for the operating or maintenance personnel.

5) Maintenance instructions

Frequency, location and process of maintenance will be determined by the user by taking into account usage of the product.

6) Reparation instructions

Genebre, S.A. will not be held responsible for an inappropriate operation of the element or its components.



Use only components/spare parts original or recommended by GENE BRE, S.A!

6.1) Disassembling

Prepare a clean working area and adequate tools to perform mechanical tasks.



Before removing the valve from the pipe for cleaning or substitution, make sure the line has been closed and depressurized, since the wrong handling might cause a serious accident as well as serious damage to the equipment

- a) Loosen and remove the Quick Locking (pos.8).
- b) Separate the cover (pos.2) from the Body (pos.1).
- c) Remove the gasket (Pos.3)
- d) Remove the Stem guide (Pos.4)
- e) Remove the spring (Pos.5) and disc (Pos.7) with the seat (Pos.6).
- f) Remove the seat (Pos.6) from the disc (Pos.7).

6.2) Assembly

Before proceeding to reassemble the valve, make sure that reparation kit and/or pieces to be used are appropriate and original from the factory.

When it is assembled again, cleaning is essential for a long life for the valve.

- a) Put the seat (pos.6) in the disc (pos.7).
- b) Put the spring (Pos.5) in the stem and later in the Stem guide (Pos.4).
- c) Put the stem assembly inside of the body (Pos.1).
- d) Put the gasket (Pos.3) in the body.
- e) Put the Cover ((Pos.2) on the gasket
- f) Put the Quick Locking (pos.8) joining the two parts (Pos.2 and Pos.1).
- g) Adjusting the Quick Locking handle.

7) Hygiene and Safety Instructions:

When operating any kind of element, you must follow the security instructions and it is recommended to use personal protection gadgets:

- 1) Protect your eyes.
- 2) Wear gloves and appropriate working clothes.
- 3) Wear safety footwear.
- 4) Wear a helmet.
- 5) Have running water at hand.