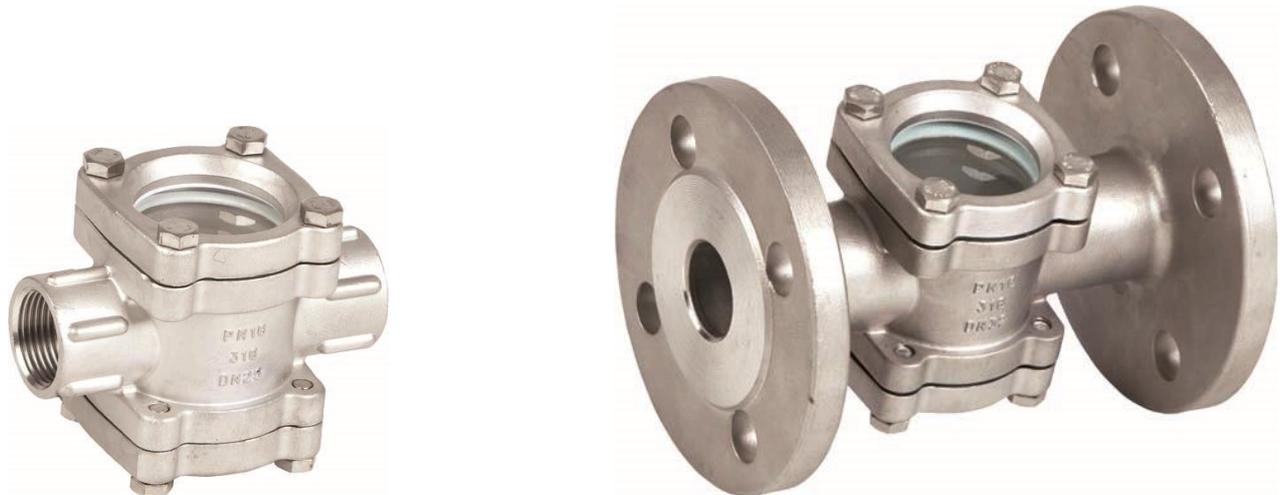


INSTALLATION, OPERATION & MAINTENANCE MANUAL

Threaded or Flanged ends Sight Glass.

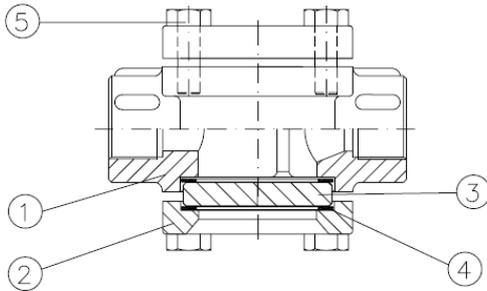


Ref. GENEBRE: 2240 - 2250

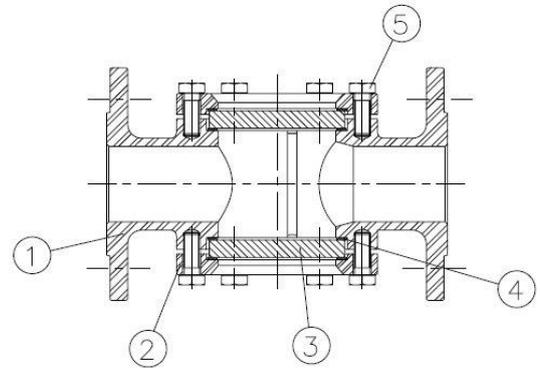
INSTRUCTIONS FOR INSTALLATION, OPERATION & MAINTENANCE MANUAL

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1) Spare Parts.



Ref. GENE BRE: 2240



Ref. GENE BRE: 2250

1.1) Parts list:

2240

Nº	Name	Material	Surface Treatment	Ref.
1	Body	<i>Stainless Steel 1.4408 (CF8M)</i>	<i>Shot Blasting</i>	-----
2	Cover	<i>Stainless Steel 1.4408 (CF8M)</i>	<i>Shot Blasting</i>	-----
3*	Glass	<i>Tempered Soda-Lime Glass</i>	-----	C2250
4*	Gasket	PTFE	-----	J2250
5	Bolt	<i>Stainless Steel AISI 304</i>	-----	-----

* Available spare parts

2250

Nº	Name	Material	Surface Treatment	Ref.
1	Body	<i>Stainless Steel 1.4408 (CF8M)</i>	<i>Shot Blasting</i>	-----
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* Available spare parts

Genebre, S.A. offers a wide range of products designed and assembled to handle and drive fluids in industrial procedures.

The application of these products to the different industrial processes is at user's risk. The product will have an optimal behaviour when working conditions do not exceed pressure and temperature limits for which they have been designed. Please, refer to the product data sheet.

2. Transport and Storage conditions



Transport and storage of this type of products must be done in their original package

VISUAL INSPECTION

Check whether during transport, unloading and placement products have suffered any damage.



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.

In case that the product is not installed immediately, keep it with protective packaging to prevent strokes or accumulation of dirt (it should not be removed until the product is going to be installed). As far as possible, the product should be stored in a dry and clean area

IMPORTANT NOTE:

Before installing and/or manipulating these elements READ CAREFULLY the enclosed instructions for use and OBSERVE all contained information. If any of the contents is not clear enough, please contact GENE BRE, S.A.



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

3) Installation Instructions

3.1) Preparation

Remove any remaining packing materials from the sight glass.

There may be serious problems with any accessory installed in a dirty pipe.

Make sure the pipe is free of dirt, welding particles, etc. before installations because the accessory could get irreparable damage when starting-up → prepare a *clean working area*. Provide enough space for future maintenance.

In case of vibrations in the pipe it is strongly recommended to mount anti-vibration elements to absorb them. Otherwise, the life of the product could be drastically reduced.

3.2) Installation

2240

Make sure the sight glass pipe and thread end are clean and are compatible one with another (type of thread end) Apply an appropriate sealing in the pipes' thread ends and thread the sight glass being careful not to excessively tighten.

To tighten the sight glass, it is recommended to use a monkey wrench only on the area of the sight glass edges; the force applied being less than 30 Nm.

2250

Use flat gaskets between sight glass and pipe flanges to ensure sealing.

The sight glasses are designed for mounting between flanges EN 1092 PN16.

Check the parallelism of the flanges. Keep enough space between them so that the sight glass can be inserted or removed easily.

Tighten the screws of the flanges to hold the sight glass firmly. Apply the alternate clamping method to ensure proper installation. To obtain more information, please consult the maximum torque values for the flanges in the table in section 6 of this manual.

IMPORTANT:

Pay particular attention to the flow direction of the sight glass marked by an arrow in the body.

4) Maintenance instructions



It is responsibility of the user to establish a plan of inspection and maintenance of these apparatuses with the purpose of guaranteeing its safe use.

The inspections must be made only by qualified personnel, in accordance with the type of equipment and installation required.

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



Before disassembling the pipe's sight glass to repair or replace it, make sure that line has been closed and depressurized because a bad operational procedure could cause a serious accident to you or to the installation system

Prepare a clean working area and appropriate tooling for mechanical tasks.

5) Cleaning or Change of Glass Instructions

Disassembly (both sides of the sight glass):

- a. Loosen and remove the bolts (part.5).
- b. Remove the cap (part.2).
- c. Remove the glass (part.3) and gaskets (part.4).
- d. Clean the all componets with compressed air or another method.

Assembly (both sides of the sight glass):

- a. Place the gasket (part.4) inside of body (part.1).
- b. Place the glass (part.3) inside of the body (part.1) and on the gasket (part.4).
- c. Place the gasket (part.4) on the glass (part.3).
- d. Place the cap (part.2) on the glass (pat.3) and gasket (part.4).
- e. Place the bolts (part.5) to bring together the two different parts of the sight glass.
- f. Then, tighten the bolts (part.5) adjusting slowly and alternating diagonally and evenly until obtaining the recommended tightening torque (*see Torque table 6*).

6) Torques

Recommended torque to tighten the caps bolts

Size	Maximum torque value (N.m)
1/2" – 3/4"	6
1" – 1 1/4"	10
1 1/2" – 2"	16
2 1/2" – 3"	24
4"	31

7) Safety Instructions

7.1) The fluids pass through a valve or accessory can be corrosive, toxic, flammable or pollutant. They can also be found at very high or low temperature. When handling valves or accessory shall be taken necessary security measures and it is advisable to use personal protective equipment:

- 1) Wear eye protection.
- 2) Wear gloves and appropriate work clothes.
- 3) Wear safety shoes.
- 4) Wear a helmet.
- 5) Note the availability of running water.
- 6) For flammable fluids, make sure you have a fire extinguisher.

7.2) Before removing a valve or accessory from a pipe, always check that the line is completely cold, drained and depressurized.

7.3) Any valve or accessory that was used in toxic services must have a cleaning certificate before handling.

7.4) Any type of repair or maintenance should be performed in ventilated places.