

## INSTALLATION, OPERATION & MAINTENANCE MANUAL

### Thermostatic steam trap and Air Vent

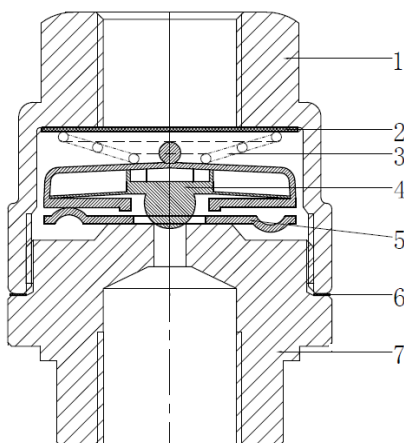


Ref. GENE BRE: 2293

## INSTRUCTIONS FOR INSTALLATION, OPERATION & MAINTENANCE MANUAL

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## 1) Spare Parts.



### 1.1) Parts List

Nº	Name	Material
1	Cover	Stainless Steel 304
2	Strainer Screen	Stainless Steel 304
3	Spring	Stainless Steel (Inconel)
4	Thermostatic element	Stainless Steel 304
5	Base	Stainless Steel 304
6	Gasket	Stainless Steel 304
7	Body	Stainless Steel 304

**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 strainer 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 strainer.

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.

### 3.2) Installation

Make sure the product's 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 product being careful not to excessively tighten the conical threaded ends (NPT).

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

### **IMPORTANT:**

Pay particular attention to the flow direction of the steam trap marked by an arrow in the body.

The installation can be in horizontal or vertical position.



## 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.***

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***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 steam trap 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.*

## **4.1) Cleaning Instructions**

### **Disassembly**

Loosen and remove the cover (part.1), remove the spring (part.3), the thermostatic element (part.4) and base (part.5).

Clean the mesh (part.2) with compressed air or another method.

Clean inside the body.

### **Assembly**

Insert the base (part.5), the thermostatic element (part.4) and the spring (part.3) inside of body (part.7), put the cover (part.1) and tighten.

## **4.2) Replace of Thermostatic Element.**

### **Disassembly**

Loosen and remove the cover (part.1), remove the spring (part.3), the thermostatic element (part.4) and base (part.5).

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## Assembly

Insert the base (part.5), the new thermostatic element (part.4) and the spring (part.3) inside of body (part.7), put the cover (part.1) and tighten.

## 5) Safety Instructions

**5.1)** 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.

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

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

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