

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Limit Switch Box with 2 sensors
for angle seat valve with pneumatic actuator



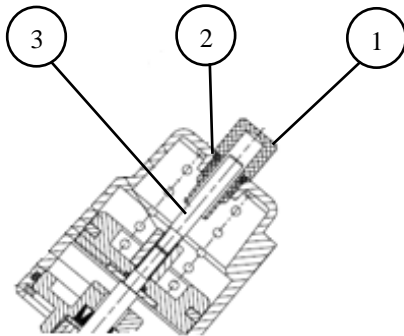
Ref. GENE BRE: 5988 01

Installation, Operation and Maintenance Instructions

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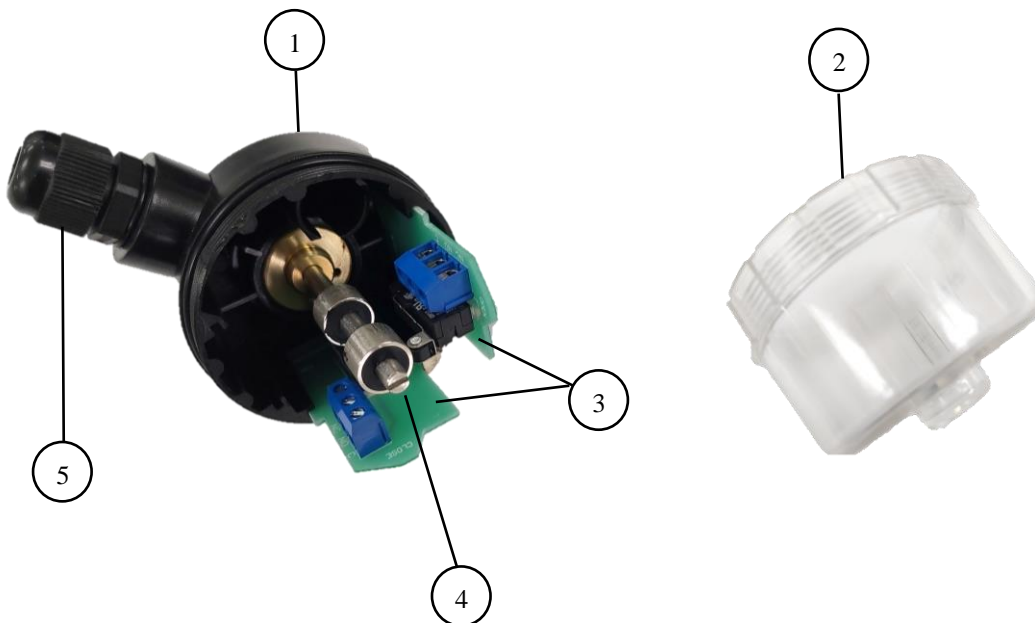
1) Part diagram.

1.1) Valve:



PART N°	NAME
1	Plastic window
2	Window o'ring
3	Indicator

1.2) Limit Switch Box:



PART N°	NAME
1	Box Base
2	Box Cover
3	Sensors – Terminal Strip
4	Stem – Cams
5	Cable Gland

2) Storage

It is recommended that the protective packing be kept during storage so as to prevent any damage or dust accumulation. It should not be removed until the element is installed. To the extent possible, store in a dry and clean place.



These devices must be transported and stored in their original packing!

VISUAL INSPECTION

Check that the devices have not suffered any damage during transportation, unloading or on-site.

MECHANICAL CHECK

Check that all the mobile parts of the devices, such as bolts and other elements, fulfil their purpose.



If any abnormality is detected during these reception guidelines, contact GENE BRE urgently with the aim of establishing any responsibilities and returning the devices in their correct functioning state.

IMPORTANT NOTE:

Before installing and/or manipulating these pneumatic elements, READ CAREFULLY these instructions of use and CONSIDER all the information contained in them. In the event of not understanding something, please contact GENE BRE, S.A.



The user is responsible for the safe usage of these devices in accordance with the contents established in these instructions of use and their specific technical documentation!

3) Installation Instructions

3.1) Preparation

Remove any packing material.
Establish a clean working area.
Make sure that there is sufficient space for future maintenance operations.

It is recommended that qualified staff perform this task.

3.2) Installation on the valve

Disassemble the plastic window from the valve actuator (part 1) and then unfasten and remove the plastic indicator (part 3).
Remove the o'ring (part. 2) and put it in the coupling.



Fasten the screw inside of actuator in the same position of plastic indicator (part. 3).



There are 2 different screws, one is of 60 mm (for valves DN15 to DN25) and another is of 70 mm (for valves DN32 to DN50).

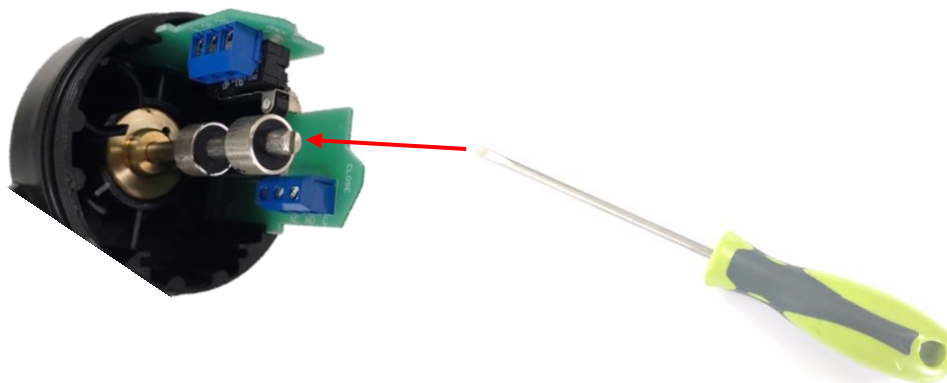
Fasten the coupling in the actuator:



Fasten in the coupling the Limit Switch Box:



Fasten the Stem – Cams assembly in the screw inside of the coupling:



3.3) Electrical Connections

Disassemble the box cover of Limit Switch (part 2).

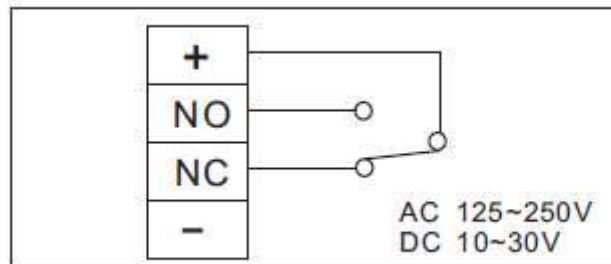
The electromagnetic sensors can be connected at different voltages.

125-250 VAC – 10-30 VDC

Connection Diagram

Care should be taken before energising the equipment by taking into account the supply voltage for which it is prepared.

Electromechanical sensors:



Perform the wiring using the cable holder (M16 x 1.5):



After installing, ALWAYS place the cover (part 2) again to protect the electrical components inside.



All the electrical work must be performed by authorised personnel.

4) Operating Instructions

4.1) Use

Before starting the equipment, always have the Technical Specifications present and never exceed the Power Limits regarding electricity and air.

Never touch the valve and/or pipes that are in contact with the flowing liquid when the process is in operation, as burns could occur.

4.2) Manual Operation

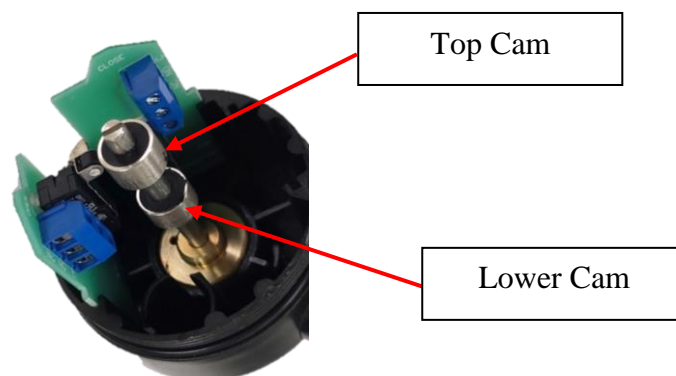
Both the actuator and the limit switch box are made up of rotating or sliding parts; do not place your fingers in these areas as serious injuries could occur.

5) Maintenance Instructions

This limit switch box does not require any type of maintenance.

If any internal components have been damaged, contact Genebre, S.A. in order to assess the possibility of repairing it.

The position of the cams is factory set, if they have to be adjusted move it to the desired position:



This adjustment, if necessary, should always be performed with the limit switch box disconnected from the power supply.

6) Health and Safety:

When manipulating any type of element, the necessary safety measures must be taken and the use of personal protection elements is advisable:

- 1) Use eye protection
- 2) Use suitable gloves and work clothes
- 3) Use protective footwear
- 4) Use a helmet
- 5) Make sure that there is running water available