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INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Needle regulation valves with threaded ends

GENEBRE Ref.:

2221 – 2222 – 2223 – 2224 – 2225 – 2225N – 2226 – 2226N – 2227 – 2227N

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1. Product description.

Genebre, S.A. offers a wide range of valves designed and assembled to handwheel and drive fluids in industrial procedures.
The compatibility of materials used to build the valves (see technical specifications) and the application of valves to the different industrial processes is at user's risk. Valves will have an optimal behavior when working conditions do not exceed pressure and temperature limits (pressure curve) for which they have been designed.

2. Transport and Storage conditions

Transport and storage of this kind of products must be done keeping them in their original package!

VISUAL INSPECTION
Check whether during transport, unloading and placement the products have suffered damages.

During storage it is recommended to keep them into the included protective wrapping to avoid damages or dirt accumulation in the inside part of the valve.The wrap must not be removed until valve is to be installed.

Valves must be stored in a dry and clean environment.

If you notice any kind of anomaly during reception of the goods, contact immediately with GENEBRE in order to determine the possible responsibilities on the issue.

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 GENEBRE, S.A.

User is responsible for the safe use of these products, according to present instructions for use and specific technical documentation of the device.

3. Installation instructions

3.1) Preparation

Remove any material remains of the valve wrapping.
Serious problems may arise with the installation of a valve in a dirty pipe.
Make sure the pipe is not dirty and doesn't have welding particles, for example, before installing it. This may cause irreparable damages in the valve when the equipment is started → *prepare a clean working area*.
Plan beforehand enough space for future maintenance operations.
Control the correct performance of the valve by turning the handwheel both sides (close and open) and observing if the disc or needle slides correctly. If this is not the case, check if there are foreign particles inside the valve and repeat the whole operation.
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) Assembling

Make sure the valve's pipe and thread end are clean and are compatible one with another (type of thread end) Apply an appropriate sealing into the pipes' thread ends and thread the valve being careful not to excessively tighten the conical threaded ends.
Do not use valve's handwheel as a lever to thread the valve into the pipe.
To tighten the valve into the pipe it is recommended to use a spanner or monkey wrench only on the hexagonal area of the valves edges or in the body central assembly; the force applied needs to be less than 30 Nm.

Design for this kind of regulation valves allows only one position for assembling it to the pipe, specified by means of an arrow in the valve's body that indicates the direction in which the fluid needs to circulate.

If possible, it is recommended to install the valve in horizontal position and the handwheel upwards.

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

It is also recommended to use filters in the pipe to extend lifecycle of the valve.

4. Operating instructions

4.1) Usage

GENEBRE valves provide a leakproof lock when used adjusted to the pressure and temperature values for which they have been designed.

Valve materials have to be fully compatible with the fluid circulating through the valve. Otherwise, valve could be seriously damaged.

4.2) Manual operation

When operating the valve you must avoid excessive lateral efforts with the handwheel. To close, the operation consists in turning the handwheel clockwise and anticlockwise if you want to open the valve.

5. Maintenance instructions

Frequency, place and process of maintenance will be determined by the user by taking into account usage of the product. However, periodical checks explained below will be useful to extend the service life of the valve and reduce installation problems.

5.1) Valves must not remain in open or closed position for a long period of time. It is recommended, if the process allows for it, to operate it for control purposes every six months.

5.2) Verify possible leaks in the stem area; in case they exist, proceed to tighten the gland nut. If leak persists, valve should be replaced *(see section 6).*

5.3) Verify possible leaks through the line (due to closure); this defect is probably caused by deposition of impurities between the disc or needle and the seat, transported by the fluid. Disassemble the valve from the pipe, clean it thoroughly and reinstall it. If the problem persists you should change the valve, since it is possible that some metallic parts used for closure are damaged (erosion, corrosion). See section 6 for further details.

6. Reparation instructions

These types of valves, due to their assembling specifications are not worth repairing, because most of the times are simply not cost-effective, so we recommend to directly replace them.

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

Before installing new valve, check if it meets the requirements of the valve being replaced

7. Hygiene and Safety Instructions:

7.1) Fluids that go through a valve can be corrosive, toxic, flammable or pollutant. They can also be found at very high or low temperature. When operating valves, 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.
6) To operate flammable fluids, make sure you have an extinguisher at hand.

Before removing a valve from a pipe, always check if the line is completely drained and depressurized.

7.2) Always operate the valve in open position to make sure there is no pressure in the internal cavity.

7.3) Any valve being used by toxic services department needs to obtain a cleanliness certificate before being operated.

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