

INSTALLATION AND MAINTENANCE INSTRUCTIONS CULINARY STEAM FILTERS ISC16 / ISC20

GENERAL

- These instructions must be carefully read before any work involving products supplied by VALSTEAM ADCA ENGINEERING S.A. is undertaken.
- The installation procedure is a critical stage in a life of a valve and care should be taken to avoid damage to the valve or equipment.
- They give their maximum performance only when the equipment associated with them is correctly sized and installed in accordance with our recommendations.
- The high efficiency filters are used to remove contaminated particles from gases such as steam and compressed air

Note:

- Current regional safety regulations should be take in to account and followed, while doing the installation and maintenance work.
- Handling, installation and maintenance work must be carried out by trained personnel. A supervisor must follow and check all activities.
- For the problems that cannot be solve with the help of this instructions, please contact the supplier or the manufacturer.
- The manufacturer reserves the right to change the design and material of this product without notice.

CE Marking: This product has been designed for use on water, clean steam and other liquids or gases which are in Group 1 and 2 of the PED-European Pressure Equipment Directive and it complies with those requirements.

ISC16 - CEMARKING (PED - European Directive)		
Ps 16 bar	Ps 12 bar	Category
1/4" to 1 1/2" ; DN10 to DN40	/	SEP
2"L to 3"L ; DN50L to DN80L	/	1
/	3"H ; DN80H	2

ISC20 - CEMARKING (PED - European Directive)		
Ps 16 bar	Ps 12 bar	Category
1/4" to 1 1/2" ; DN10 to DN40	/	SEP
2"L to 2 1/2" ; DN50L to DN65 ;	/	1
/	3" ; DN80	2



ATTENTION

- If malfunction of any other equipment or system operation failure may result in a dangerous overpressure, over temperature or even vacuum condition, a safety device must be included in the system to prevent such situations.
- Do not touch the equipment without appropriate protection during working operation because it may conduct heat if the used fluid is at high temperature.
- Before starting maintenance be sure that the equipment is not pressurized or hot.

- The equipments must be used within the working temperature and pressure limits laid down for them, otherwise they may fail (refer to nameplate and/or IS- Information Sheet).
- Manual handling of products may present a risk of injury. You are advised to assess the risks considering the task, the individual, the load and the working environment.
- Before starting work ensure that you have suitable tools and/or consumables available. Use only genuine ADCA replacement parts.
- Do not remove the marking in the equipment. Serial number and other useful information is there.
- Do not apply the valve for oxygen service, if it hasn't been specifically manufactured for that purpose.
- During the assembly work, apply protective measures against dirt and all kinds of contamination.
- The equipment should be carefully handled, to prevent any damage in its surfaces.
- Correct installation of the equipment is full responsibility of the contractor.

CLEANING AND PACKING

- This equipment is packed by a proper machine with a special film used by food industry.
- These equipments are degreased and cleaned ultrasonically.
- For oxygen application a special cleaning process is applied.

TRANSPORT AND STORAGE



ATTENTION

- Handling and lifting of materials should be made with adequate equipments.
- The valves and equipments should be protected from impacts and forces during transportation and storage.
- We advice that all the protective packing in the equipment, is kept during storage to avoid damage and contamination. The environment should be as clean and dry as possible.
- The manufacturer doesn't assume the responsibility of damaged equipments due to inappropriate handling during the transportation and storage.

INSTALLATION



ATTENTION

- Account for over pressure conditions, according with the local laws or standards.
- Depressurize the system before carrying out any work on the equipment.
- Clean the piping before carrying out the installation work.
- The unit must be installed vertically in the piping.
- Do not over-tighten clamps because that can damage the gasket.
- For the problems that cannot be solve with the help of this instructions, please contact the supplier or the manufacturer.

Installation area requirements:

- The installation area should have easy access and provide enough space for maintenance and removing operations.
- In order to allow installation and maintenance work without emptying the system, stop valves should be installed upstream and downstream of the filters.

START UP



ATTENTION

- Current regional safety regulations should be taken into account and followed.
- Protective insulation and warning notice may be required.
- Until the start up of an existing or a new plant, the following must be checked:
 - All works are completed;
 - The valve is correctly installed;
 - All the necessary safety devices have been installed.
- Slowly apply pressure to the system by first opening the downstream valve.

Periodical checking:

- 24 hours after the start up, it is recommended to check pipe connections for leaks and retighten the connections if necessary.

MAINTENANCE

- We recommend the filters should be checked periodically (6/6 months), to verify if they are operating correctly.
- When reassembling make sure that all gasket faces are clean and use a new gasket if required.
- Lubrication must be avoided for oxygen service. When it's necessary, only the lubricants recommended by the manufacture should be used.
- During maintenance operations care should be taken to avoid any scratches or damage. Leakage and other malfunctions may result from that.
- Maintenance should proceed as follows:
 1. Isolation valves should be closed and the pressure and temperature must be atmospheric.
 2. Release the air vent plug.
 3. Remove closing ring or sanitary clamps of connection used.
 4. Execute the maintenance work, replacing the filter element and the sealing ring.
 5. Replace and tighten the closing ring or clamps.
 6. Tighten the air vent plug.
 7. Slowly apply pressure to the system by first opening the downstream valve.
 8. Consider the start up conditions.

PRODUCTS RETURNING



ATTENTION

- Information regarding any hazards and precautions to be considered because of contaminating fluids and residues or mechanical damage that may represent a health, safety or environmental risk, must be provided in writing by the distributors and costumers when returning products to Valsteam ADCA engineering.
- Health and safety data sheets regarding substances identified as hazardous or potentially hazardous must be provided with the information mention above.



ATTENTION

- **LOSS OF GUARANTEE:** Total or partial disregard of above instructions involves loss of any right to guarantee.