

INSTALLATION AND MAINTENANCE INSTRUCTIONS PRESSURE GAUGE MAN

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 pressure gauge and care should be taken to avoid damage.
- They give their maximum performance only when the equipment associated with them is correctly sized and installed in accordance with our recommendations.

Note:

- Current regional safety regulations should be take in to account and followed, while doing the installation and maintenance work.
- For hazardous media such as oxygen, acetylene, flammable or toxic gases or liquids, and refrigeration plants, compressors, etc., in addition to all standard regulations, the appropriate existing codes or regulations must also be followed.
- 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.



ATTENTION

- 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).
- 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.
- During the assembly work, apply protective measures against dirt and all kinds of contamination.
- Correct installation of the equipment is full responsibility of the contractor

TRANSPORT AND STORAGE



ATTENTION

- The pressure gauges should be protected from impacts and forces during transportation and storage.
- We advise that pressure gauges in stock should be left in original packing and should be maintained in stock well protected against damage by external influences. While the gauges are in stock the general temperature limits of -20°C and +60°C should be not exceeded (refer to EN837-1 and EN837-3)
- 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

- The permissible operating temperature for the pressure gauge must not be exceeded.
- Shut-off devices may only be opened slowly to avoid sudden pressure spikes during start-up. On the other hand, it is recommendable to install a siphon in these critical systems.
- 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.
- The installation area should have the necessary firing system to prevent damage of the equipment due to over temperature/pressure cause by fire.

Procedure:

- Prior to install check that the product is suitable for the intended application: materials and pressure/temperature ratings.
- Before installing remove, plastic covers placed on connection ends.
- Take care with jointing material to ensure that none may be permitted to block the gauges measurements.
- During the installation never apply any forces to the case of the pressure gauges, instead apply the wrench to the wrench flats provided. However, there are pressure gauges with ferrules connection that shall be connected with clamps.

START UP



ATTENTION

- Shut-off devices must be opened slowly to avoid sudden pressure spikes during start-up.

MAINTENANCE

- The pressure gauges do not require any maintenance. Regular checks should be carried out to ensure the measurement accuracy.

GLYCERINE FILLING INSTRUCTION

- Pressure gauges should be positioned so that the filling plug is at the top of the gauge.
- Remove the filling plug by prying it up with a blunt instrument, being careful not to puncture the plug or damage the internals of the gauge.
- Use a funnel to fill the gauge just until the liquid begins to appear at the bottom of the dial and allow the liquid to level off. After, continue to fill slowly, allowing the liquid to level off several times until the proper amount of liquid has been added.
- Allow the gauge to “breathe” for at least 10 minutes then replace the filling plug.
- Wipe away any excess fluid on the outside of the gauge.

Note:

- Temperature of the liquid fluid should be between 20°C to 29°C.
- Gauges filled with glycerin may be rinsed under running water if necessary, but must be completely dried after the service.
- Gauges filled with glycerin cannot be used on applications where strong oxidizing agents are present.

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.