

USER'S MANUAL

**Additional safety instructions
for the use of ANGLE SEAT
VALVES in potentially
explosive atmospheres**

GENERAL INFORMATION

- 1) The maker carefully checks the integrity and functionality of every single product. Just a few simple precautions will keep it working for a long time.
- 2) Read the User's Manual supplied with the product and the instructions below for the use of ball valves in potentially explosive atmospheres before proceeding in any way.
- 3) Make sure the product supplied matches the application requirements perfectly.
- 4) Upon receipt of the product, make sure the packaging is still in perfect condition and does not show any sign of damage due to transportation.
- 5) If a valve needs to be stored for extended periods of time, we suggest keeping it in its original packaging. Store the valve in a clean, not excessively humid area at temperatures between -10 and + 60° C.

MARKINGS AND CLASSIFICATION

- 1) The valve body features: name, valve model, markings in compliance with 97/23EC "PED" if required, valve PN and DN.
- 2) An additional label normally found on the actuator body lists all valve specifications and information about the Classification of the product suitable for being used in potentially explosive atmospheres.

LEGEND

- 1- Name and address of the company in charge of marketing the product in the EU.
- 2- Model name and year of production/serial number (Note *)
- 3- Conformity Class in compliance with the applicable standard and Protection Level "c", Temperature Class TX
- 4- Name of the technical file deposited with a Notified Body

NOTE: The registration number, serial number/year together generate a number which identifies a homogenous lot of products and makes it possible to trace back the records of all ATEX conformity tests filed with the manufacturer



No information about room temperature and process fluid maximum temperature is provided in the ATEX label as it is already marked on the valve body or listed in the technical documents supplied to the User/Safety Instructions.

3) TX The surface temperature class is not indicated as the valves do not have any internal heat source; As a matter of fact they reach a maximum temperature close to room temperature or to the temperature of the intercepted fluid or – if they come with actuators – the temperature of the fluid used to operate the actuator whichever is greater.

4) The valves are suitable for applications on equipments belonging to **GROUP II Category 2**, suitable for **zones 1 & 2 GAS and 21 & 22 DUST**

Temperature class: TX determined by the room temperature or the temperature of the operating and/or intercepted fluid.

Protection Class: "c" **Constructional Safety**



Azienda certificata ISO 9001

ANGLE SEAT VALVES

OMAL S.p.A.

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PREVENTION AND SAFETY

- 1) Valves are suitable for intercepting a wide variety of fluids under the most diversified operating conditions. Therefore it is very important for the User to carry out an accurate risk analysis based on the actual application in order to bring the risks down to an acceptable level for the requested Class of Application. These valves are designed to function if there are explosive mixtures outside (installation area) and inside (fluid intercepting area).
- 2) Always operate under safe conditions during all installation and/or maintenance procedures
- 3) Always comply with general safety rules in the different working environments; wear proper personal protections, if required.
- 4) Always respect general safety regulations when you install, use and service the valves following the instructions provided with the product.
- 5) Before installing a valve, make sure its components have no chemical incompatibility with the intercepted fluid; if necessary, please call OMAL SpA Technical-Sales Department
- 6) It is essential to prevent the ignition by electrical sources such as random currents or potential differences among the devices on the equipment. Make sure there is good electric conduction between the valve body and the equipment equipotential line (in compliance with EN 12266-2 standard). The efficiency and reliability of such conductivity must be verified and, if necessary, restored during every periodical preventive maintenance operation whose frequency will depend on the conditions of the equipment.
- 7) Prevent dangerous amounts of dusts from concentrating on the valve body. There are no parts moving at such speed to be regarded as potential ignition elements; however it is very good practice to periodically clean the valve body. The actuator body is in plastic and its surface resistance is higher than 1 GΩ; it is still good practice, tough, to clean only with wet or antistatic clothes.

- 8) The valve surface temperature depends on the room temperature and/or temperature of the intercepted fluid. If such temperatures generate surface temperatures higher than the nominal temperature, the user must provide specific heat protections around the valve body.
- 9) If a valve intercepts dangerous, corrosive or explosive media, please make sure to flush it and wash it properly with inert fluids or specific passivating substances before servicing it.
- 10) Do not alter or tamper with the valve in any way.
- 11) Use only original spare parts supplied by the manufacturer.
- 12) Before installing a valve on an earthquake fault line or under extreme weather conditions, please contact OMAL SpA Technical-Sales departments.
- 13) If a valve is used under extreme weather conditions (very high or very low temperatures) make sure there are suitable protections.
- 14) Install the valve carefully and properly to avoid the formation of abnormal linear, flexional or torsional stresses (see Valve Instruction Manual).
- 15) Use a valve only and exclusively within its standard operating parameters (both in terms of environment and performances) and follow the specifications supplied by the manufacturer.
- 16) By using proper devices, protect the valve from any pressure surge which could be generated by the use of instable gases or overheating (e.g. fire)
- 17) A valve is not a safety device. It must be monitored and controlled by devices specifically manufactured and homologated for that purpose.

The data and specifications in this Manual can be changed at any time and with no notice to improve the quality of the product. Therefore they cannot be considered binding for the delivery.