

Installation, use and maintenance instructions for gas ball valves

Introduction

The ball valve is a device for the interception of fluids. It is composed by:

- **body or cover** it's the external part of the valve in which the shaped connections are machined for mounting the valve on the pipeline;
- **shutter (ball)** it's the effective interception device of the valve; the tightness is obtained by means of the compression of two soft material seats against the ball;
- **stem** is the connection system between the shutter and the operation organ;
- **operation organ** is the device to operate the valve; this device which is normally a lever handle, is also available on request in other options.

Installation

The valve must be installed in open position, by not working plant and after checking that no pressure is in the pipeline and by ambient temperature only.

The assembly to the plant is made by means of the two threaded ends machined in the body of the valve.

The two threaded ends are manufactured according to International standards; also the fittings or the pipeline must comply to the same ones in order to fit properly with the valve.

To guarantee the tightness of the junctions, seal materials may be used by putting them on the threads of the pipeline (hemp, teflon tape, etc.).

During the assembly, it is recommended to screw the pipeline and keep the valve clamped with a wrench on the hexagonal or octagonal area outside the threaded end into which the pipe is screwed; besides please make sure to not exceed with the torque which may cause tensions inside the valve.

The down- and up-stream pipeline has to be connected with the valve without generating tensions during or after the assembly.

It is recommended that after the installation, an accurate washing of the whole plant is done by keeping the **valve open**, in order to remove all residues which may damage the shutter or the seats.

Use

The fluid through the valve has to be compatible with the materials of construction of the valve. Pressure and temperature conditions have to be less to the maximum condition recommended in the technical documentation of the product. For other information, please consult the website www.rubinetteriebresciane.it/compchimiche.pag or the VALPRES catalogue or the Technical Specification Rubinetterie Bresciane / VALPRES N° 964.

It is recommended to use the valve in completely open or closed position (always avoid half open or half closed position).

Maintenance

The valve has to be periodically checked to make sure of its proper operation. A higher checking frequency is recommended when the valve is working under extreme conditions.

For a correct operation of the valve it is suggested to manoeuvre it (open and close or vice-versa) at least twice a year.



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Applications

End connection: end connection as by ISO 7/1

Working pressure: MOP5

Working temperature: -20°C +60°C

Gas family (if necessary group of Gas): 1, 2 and 3.

Warnings

- any deterioration or destruction of any part of the manually operated ball valve shall result in the need to replace the complete valve: alterations to any part of the complete valve shall result in the valve no longer being in compliance with the performance requirements of this document;
- ensure that the manually operated ball valve allows an adequate flow rate for its intended use;
- all installations should be performed in accordance with existing local installation regulations and codes of practice where they exist;
- it is imperative to follow the installation instructions of the manually operated ball valve manufacturer and of the appliance manufacturer, including those for the correct position of the connection point for the valve.

These instructions and warnings may be supplemented as required by drawings.