

331

ball valves for gas



installation, operation & maintenance

UK  
CA

altecnic

# 331 Ball valves for gas installation, operation and maintenance instructions

## Installation

The 331 series ball valves may be installed for flow in either direction.

Use standard practices when installing the valves.

With all of our range of compression connection valves, at pressures 2 bar and above, a gas certified approved sealing compound should be applied to the olive (do not apply an excessive amount) to achieve a gas tight seal.

Make sure pipes are properly aligned before the valve is installed.

When tightening threaded end valves to the pipe use a correctly sized spanner to the end nearest to the pipe being worked.

For valves with compression ends, hand tighten the compression nut and then using a correctly sized spanner tighten the compression nut an additional turn to the following.

Valve Size	Number of Turns
15mm	1 <sup>1</sup> / <sub>8</sub>
22mm	7 <sup>7</sup> / <sub>8</sub>
28 to 54mm	5 <sup>5</sup> / <sub>8</sub>

After installation is completed, the whole installation including the ball valves should be subjected to a gas soundness test.

## Operation

The ball valves shall be operated by turning the lever through 90° in the clockwise direction to close the valve, until the lever contacts the stop on the body.

## Maintenance

Periodically observe the valve to be sure of correct performance.

More frequent observations are recommended under extreme operating conditions.

## 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 these installation instructions of the and/or of the appliance manufacturer, including those for the correct position of the connection point for the valve.

## Gas Appliances Regulations Declarations (EU) 2016/426

This fitting conforms with the provisions of the European Gas Appliances Regulations which apply to it and has been tested by BSI to all of the relevant requirements of BS EN331:2015.

Where this fitting is used as a replacement spare part for a gas appliance, it must be installed in accordance with the servicing instructions issued by the appliance manufacturer.

### Operational data

Maximum working pressure:	5 bar
Pressure rating:	BS EN331:2015 Class C
High temperature resistance:	All pressures up to and including 150mbar
Working temperature range:	-20°C to +60°C
Gas families:	All 1 <sup>st</sup> , 2 <sup>nd</sup> & 3 <sup>rd</sup> family gases

### Identification

The AI-331 and AI-033 ball valve for gas service are fitted with a yellow lever and the pressure and temperature rating is restricted to that specified in BS EN 331.

## BS EN 331: 2015 Requirements

Below is extracted from BS EN 331 as confirmation that this IOM meets these requirements.

### 7.2 Instructions for installation and operation

For all manually operated ball valves the installation and servicing operating instructions shall be available and written in the official language(s) acceptable to the country into which the manually operated ball valve will be delivered, giving BS EN 331:2015, EN 331:2015 (E)33 all the necessary information regarding its appropriate installation and operation together with details of the effectiveness test that is to be used upon installation and during its lifetime.

The instruction shall include all marking details described in 7.1.

The instructions shall detail the method and procedure of how to install and operate a manually operated ball valve and how to verify its correct installation and operation.

The valve shall be operated only by means of the operating mechanism provided with the original valve by the manufacturer.

#### 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.

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Altecnic Ltd Mustang Drive, Stafford, Staffordshire ST16 1GW

T: +44 (0)1785 218200 E: [sales@altecnic.co.uk](mailto:sales@altecnic.co.uk)

Registered in England No: 02095101

[altecnic.co.uk](http://altecnic.co.uk)

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