Easytop ball valve

Instructions for Use

viega

Table of contents

1 About these instructions for use

Trade mark rights exist for this document; for further information, go to *viega.com/legal*.

1.1 Target groups

The information in this manual is directed at qualified heating and plumbing engineers and trained personnel.

Individuals without the abovementioned training or qualification are not permitted to mount, install and, if required, maintain this product. This restriction does not extend to possible operating instructions.

The installation of Viega products must take place in accordance with the general rules of engineering and the Viega instructions for use.

1.2 Labelling of notes

Warning and advisory texts are set aside from the remainder of the text and are labelled with the relevant pictographs.

DANGER!
This symbol warns of possible life-threatening injury.

WARNING!
This symbol warns of possible serious injury.

CAUTION!
This symbol warns of possible injury.

NOTICE!
This symbol warns of possible damage to property.

This symbol gives additional information and hints.

1.3   About this translated version

This instruction for use contains important information about the choice of product or system, assembly and commissioning as well as intended use and, if required, maintenance measures. The information about the products, their properties and application technology are based on the current standards in Europe (e.g. EN) and/or in Germany (e.g. DIN/DVGW).

Some passages in the text may refer to technical codes in Europe/ Germany. These should serve as recommendations in the absence of corresponding national regulations. The relevant national laws, standards, regulations, directives and other technical provisions take priority over the German/European directives specified in this manual: The information herein is not binding for other countries and regions; as said above, they should be understood as a recommendation.

2   Product information

2.1   Standards and regulations

The following standards and regulations apply to Germany / Europe and are provided as a support feature.

Regulations from section: Fields of application

Scope / Notice	Regulations applicable in Germany
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 1
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 2
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 3
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 4
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 5
Planning, execution, operation and maintenance of potable water installations	DIN EN 1717
Planning, execution, operation and maintenance of potable water installations	DIN 1988
Planning, execution, operation and maintenance of potable water installations	VDI/DVGW 6023
Planning, execution, operation and maintenance of potable water installations	Trinkwasserverordnung (TrinkwV)

Regulations from section: Media

Scope / Notice	Regulations applicable in Germany
Suitability for drinking water	Trinkwasserverordnung (TrinkwV)
Suitability for heating water for pump hot water heating systems	VDI 2035 Page 1 and page 2

Regulations from section: Product description

Scope / Notice	Regulations applicable in Germany
Suitability for potable water installations	Trinkwasserverordnung (TrinkwV)
Suitability for potable water installations	DIN 50930-6
Requirements in plastic components in potable water installations	DVGW-Arbeitsblatt W270

Regulations from section: Overview

Scope / Notice	Regulations applicable in Germany
Compliance with the inspection requirements (fittings group I)	DIN EN 13828

Regulations from section: Marking on components

Scope / Notice	Regulations applicable in Germany
Designation noise class I	DIN EN 13828

Regulations from section: Compatible components

Scope / Notice	Regulations applicable in Germany
G-external threads	DIN EN ISO 228

Regulations from section: Technical data

Scope / Notice	Regulations applicable in Germany
Scope	DIN EN 13828

Regulations from section: Corrosion

Scope / Notice	Regulations applicable in Germany
External corrosion protection	DIN EN 806-2
External corrosion protection	DIN 1988-200
External corrosion protection	DKI-Informationsdruck i. 160

Regulations from section: Leakage test

Scope / Notice	Regulations applicable in Germany
Leakage test for potable water installations	DIN EN 806, part 4
Leakage test for potable water installations	ZVSHK-Merkblatt „Dichtheitsprüfungen von Trinkwasserinstallationen mit Druckluft, Inertgas oder Wasser"

Regulations from section: Maintenance

Scope / Notice	Regulations applicable in Germany
Operation and maintenance of potable water installations	DIN EN 806-5

2.2 Intended use

> *Coordinate the use of the model for areas of use and media other than those described with the Viega Service Center.*

A ball valve is a fitting that is able to shut-off and open individual pipeline sections through a 90° movement. The ball valve is not a control fitting and cannot be used for regulating volume flows. The ball must not be in an intermediate position.

> **NOTICE!**
> Opening and closing the ball valve quickly can cause pressure shocks in the system.
>
> – Always open and close the ball valve slowly.

2.2.1 Areas of use

Use is possible in the following areas among others:

- Potable water installations
- Industrial and heating systems
- Compressed air systems
- Rainwater systems
- Cooling water pipelines (closed circuit)
- Systems for technical gases (on request)

The general rules of engineering and the applicable regulations must be observed for planning, execution, operation and maintenance of potable water installations, see ↳ *„Regulations from section: Fields of application" on page 6*.

2.2.2 Media

The model is also suitable for the following media, amongst others:

- Potable water without limitations acc. to the applicable directives, see ↳ *„Regulations from section: Media" on page 6*
- maximum chloride concentration 250 mg/l pursuant to applicable regulations, see ↳ *„Regulations from section: Media" on page 6*
- Heating water for pump hot water heating systems, see ↳ *„Regulations from section: Media" on page 6*
- Compressed air in compliance with the specification of the sealing elements being used
  - EPDM at oil concentration < 25 mg/m^3

2.3 Product description

According to the applicable regulations, Easytop system fittings can be used for all types of potable water and are DVGW certified, see ↳ *„Regulations from section: Product description" on page 7*. Their plastic components comply with the KTW recommendation and the requirements pursuant to the applicable regulations.

2.3.1 Overview

> **i** *The Easytop system fittings comply with the test requirements specified in the applicable regulations, see ↳ „Regulations from section: Overview" on page 7.*
> *Sound protection $L_{ap} \leq 20$ dB(A)*

The model is equipped as follows:

- valve casing made of gunmetal/silicon bronze
- dual-sided G external thread
- G-thread
- T-shaped actuating lever made of plastic
- protective caps for the actuating lever in the red and green for the identification of the corresponding area of use
- position indication open/closed
- key surface on the casing
- maintenance-free selector shaft
- ball seal made of Teflon®
- stainless steel ball

DN	15	20	25	32	40	50
G	¾	1	1¼	1½	1¾	2⅜

2.3.2 Threaded connection

Only flat sealing connection screw fittings may be used for the threaded connection.

2.3.3 Markings on components

The model is marked as follows:

- noise class I pursuant to applicable regulations, see ↻ *„Regulations from section: Marking on components" on page 7*
- Dimension
- DVGW writing
- Position indicator on the actuating lever

2.3.4 Compatible components

The model is equipped with G-external threads according to the applicable regulations and compatible with the Prestabo, Profipress, Sanpress, and Sanpress Inox system, see ↻ *„Regulations from section: Compatible components" on page 7*.

2.3.5 Technical data

Observe the following operating conditions for the installation of the model:

Operating temperature [T_{max}]	110 °C
Operating pressure [P_{max}]	1.6 MPa (16 bar)

2.4 Information for use

2.4.1 Corrosion

Overground pipelines and fittings in rooms do not normally require external corrosion protection.

There are exceptions in the following cases:

- Contact with aggressive building materials such as nitrite or materials containing ammonium
- In aggressive surroundings

If external corrosion protection is required, observe the pertinent guidelines, see ⮑ *„Regulations from section: Corrosion" on page 7.*

> **i** *Easytop fittings made of gunmetal/silicon bronze are suitable for all types of potable water.*
>
> *The chloride concentration in the medium must not exceed a maximum value of 250 mg/l.*
>
> *This chloride is not a disinfectant, but in fact pertains to the content in sea and table salt (sodium chloride).*

2.5 Optional accessories

The following optional accessories are available:

- actuating lever made of metal
- Easytop thermometer
- Easytop media marking
- Protective caps for the actuating lever made of plastic in red and green for the identification of the corresponding area of use
- Insulating shells

Fig. 1: Model 2275.93 Easytop L-shaped actuating lever

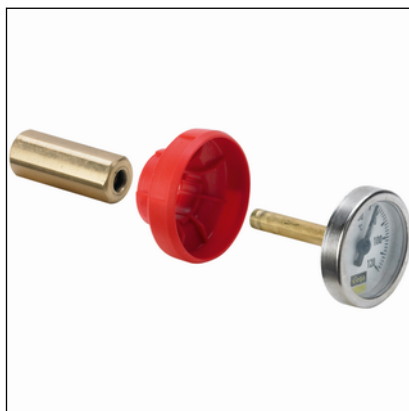Fig. 2: Model 2275.92 Easytop T-shaped actuating lever

Fig. 3: Model 2275.94 Easytop thermometer

Fig. 4: Model 2275.97 Easytop media marking

Fig. 5: Model 2275.96 Easytop protective cap green

Insulating shells

EPS insulating shells are available for all sizes of ball valves. The two-piece shells are self-supporting and are mounted without tools and holding grips. They connect seamlessly to the front surfaces of the pipeline insulation.

Fig. 6: Model 2275.90 Easytop insulating shell

3 Handling

3.1 Assembly information

3.1.1 Mounting instructions

Checking system components

> ℹ️ *Do not remove the model from the packaging until immediately before use.*

System components may, in some cases, become damaged through transportation and storage.

- Check all parts.
- Replace damaged components.
- Do not repair damaged components.
- Contaminated components may not be installed.

During assembly

Observe the following when mounting:

- Use suitable tools.
- Installation is not dependent on the direction of flow.
- When tightening the connection screw fitting, counter by holding the key surface of the valve.

> ℹ️ *Choose the place of installation so that the fitting is easily accessible, simple to operate and the insulating shell can be mounted without any problems.*

Laying and fixing pipes

For information, refer to the instructions for use of the Viega system of the product you are using.

Length expansion

For information, refer to the instructions for use of the Viega system of the product you are using.

viega

3.2 Assembly

3.2.1 Leakage test

The installer must perform a leakage test before commissioning.

Carry out this test on a system that is finished but not covered yet.

Comply with the general rules of engineering and the applicable directives, see ↻ *„Regulations from section: Leakage test" on page 8*.

Perform leakage test should in acc. with the general rules of engineering for non-potable water installations.

Document the result.

3.3 Maintenance

> **!** **NOTICE!**
> Inform your customer or the operator of the potable water installation that the system has to be maintained on a regular basis.

Observe the applicable regulations for the operation and maintenance of potable water installations, see ↻ *„Regulations from section: Maintenance" on page 8*.

> **i** *Viega recommends actuating the fitting regularly and checking its function.*

3.4 Disposal

Separate the product and packaging materials (e. g. paper, metal, plastic or non-ferrous metals) and dispose of in accordance with valid national legal requirements.