Easytop CRV slanted seat valve (free flow valve) with G-thread

Instructions for Use

for drinking water installation

Model
2238.1

Year built:
from 02/2003

en_INT

viega

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1 About these instructions for use

Trade mark rights exist for this document, further information can be found at www.viega.com/legal-notices.

1.1 Target groups

The information in this manual is directed at heating and sanitary professionals and trained personnel.

It is not permitted for individuals without the abovementioned training or qualification to mount, install and, if required, service 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 against possible life-threatening injury.

WARNING!
This symbol warns against possible serious injury.

CAUTION!
This symbol warns against possible injury.

NOTICE!
This symbol warns against possible damage to property.

Notes give you additional helpful tips.

2 Product information

2.1 Intended use

The use of the model for areas of use and media other than those described must be approved by the Viega Service Center.

2.1.1 Areas of use

Use is possible in the following areas among others:

- Drinking water installations
- Industrial units

The general rules of engineering must be observed for planning, execution, operation and maintenance of drinking water installations.

E. g. the following regulations apply:

- DIN EN 806 Part 1–5 and DIN EN 1717
- Supplementary national regulations amongst others DIN 1988, VDI/DVGW 6023 and Drinking Water Ordinance (DWO)

2.1.2 Media

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

- Drinking water without limitations
  in acc. with DWO
- max. chloride concentration 250 mg/l
  in acc. with DWO

2.2 Product description

Easytop system fittings can be used for all types of drinking water in acc. with DWO and DIN 50930-6 and are DVGW certified. Their plastic components conform with the KTW recommendation and the requirements of the DVGW Worksheet W 270.

2.2.1 Overview

The Easytop system fittings comply with the testing criteria of DIN EN 1213: 1999 (Fitting group I).
Sound protection $L_{ap} \leq 20$ dB(A)

The model is equipped as follows:

- valve casing made of gunmetal
- valve top made of gunmetal (dead space free)
- dual-sided G external thread
- valve seat made of stainless steel
- non-rising spindle
- position indication open/closed
- handwheel with exchangeable coloured plastic cap as media labelling
- Combined backflow preventer (CBP)
- drainage / testing plugs G¼ upstream and downstream from the backflow preventer
- key surface on the casing
- valve and spindle seal made of EPDM (maintenance-free)

Backflow preventer

The model is fitted with a backflow preventer.

Backflow preventers only allow flowthrough in one direction (in the direction of flow). If the direction of flow changes, e. g. due to back suction, the backflow preventers close automatically.

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

2.2.2 Threaded connection

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

2.2.3 Markings on components

The model is marked as follows:

- Flow direction indicator
- Noise class I in acc. with DIN EN 1213
- Dimension
- DWGW writing
- Position indicator below the handwheel, with CRV writing
- EA marking for classification in acc. with DIN EN 1717

2.2.4 Compatible components

The model is equipped with G external threads in acc. with DIN EN ISO 228 and is compatible with the Profipress, Sanpress and Sanpress Inox systems.

2.2.5 Operating mode

Combined backflow preventer (CBP)

Backflow preventers protect fittings and installation systems against unintended backflow, back pressure or back suction of the contaminated wastewater or dirty water in the piping system. This can occur after pressure fluctuations in the distributor circuit, which can cause a change in the direction of flow.

The backflow preventer prevents the pushing back, backflow or back suction of liquids, which may be a health hazard, into the public drinking water network, with the help of a spring-loaded valve cone. The dimension is dependent on the peak pressure and it complies with the nominal width of the pipeline. The backflow preventer must be fitted with testing equipment.

In many countries, standards and technical guidelines stipulate the use of backflow preventers or other suitable safety equipment that protect drinking water against contamination.

2.2.6 Technical data

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

Operating temperature [T_{max}]	90 °C
Operating pressure [P_{max}]	1.6 MPa (16 bar)

The performance diagram shows the pressure losses (in hPa) in relation to the volume flow and the nominal width.

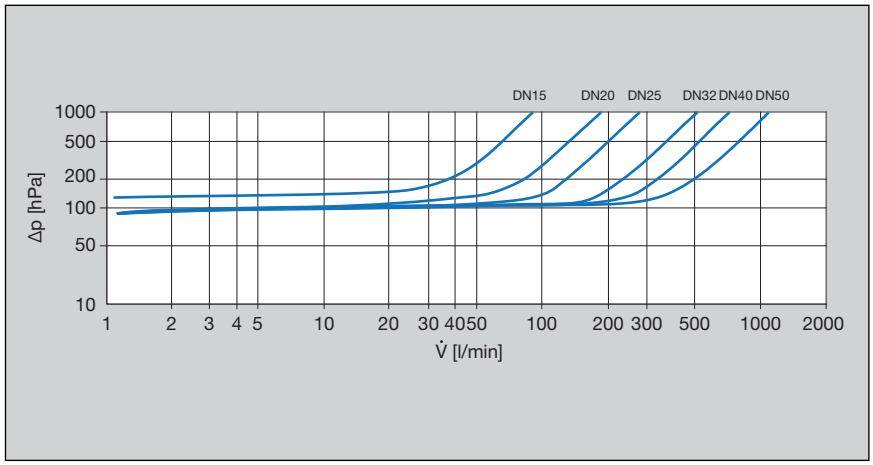

Fig. 1: Performance diagram pressure loss CRV press/threaded connection

2.3 Information for use

2.3.1 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, the following regulations should be followed:

- DIN EN 806-2
- DIN 1988-200
- DKI information publication i. 160

Easytop fittings made of gunmetal are suitable for all types of drinking water.

The chloride concentration in the medium must not exceed 250 mg/l.

This chloride is not a disinfectant, but in fact pertains to the content in sea and table salt (sodium chloride).

2.4 Optional accessories

The following optional accessories are available:

- Drainage valve
- Extension for drainage valve when using an insulating shell
- Insulating shells

Fig. 2: 2234 Easytop drainage valve

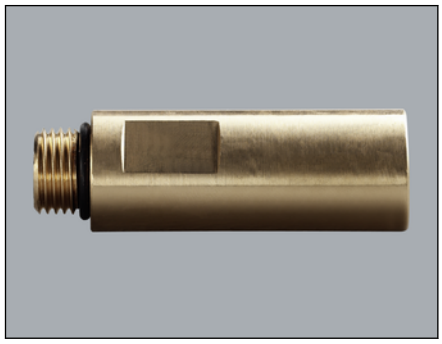

Fig. 3: 2234.5 Easytop extension

Insulating shells

EPS insulating shells are available for all sizes of valves. The two-piece shells are self-securing and mounted with tools and holding clamps: they connect seamlessly onto the flat surface of the pipe insulation. When installing a drainage valve or an extension with drainage valve, a predetermined breaking point is broken out of the insulating shell.

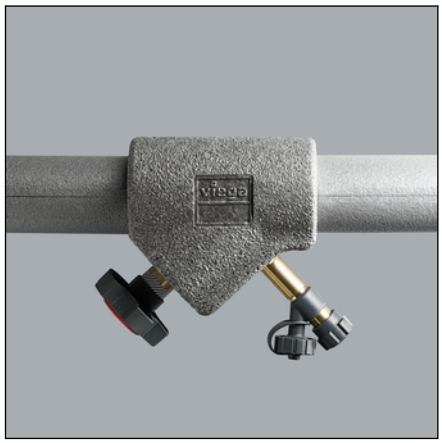

Fig. 4: Easytop insulating shell with extension and drainage valve

3 Handling

3.1 Assembly information

3.1.1 Mounting instructions

Checking system components

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 the model:

- Flow direction indicator
- Use suitable tools
- When tightening the connection screw fitting, counter by holding the key surface of the valve.

Choose the place of installation so that the fitting is easily accessible, simple to operate and the insulating shell can be well mounted.

Laying and fixing pipes

Information can be found in the Profipress, Sanpress and Sanpress Inox system instructions for use.

Length expansion

Information can be found in the Profipress, Sanpress and Sanpress Inox system instructions for use.

3.2 Assembly

3.2.1 Leakage test

The installer must perform a leakage test before commissioning.

This test is carried out on a unit that is finished but not yet covered.

The general rules of engineering must be observed.

E. g. the following regulations apply:

- DIN EN 806–4

The result must be documented.

3.3 Maintenance

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

DIN EN 806-5 must be observed for the operation and maintenance of drinking water installations.

We recommend actuating the fitting regularly and checking its function.

Replacing the valve top

If the valve top has to be replaced, model 2237.20 is available.

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.