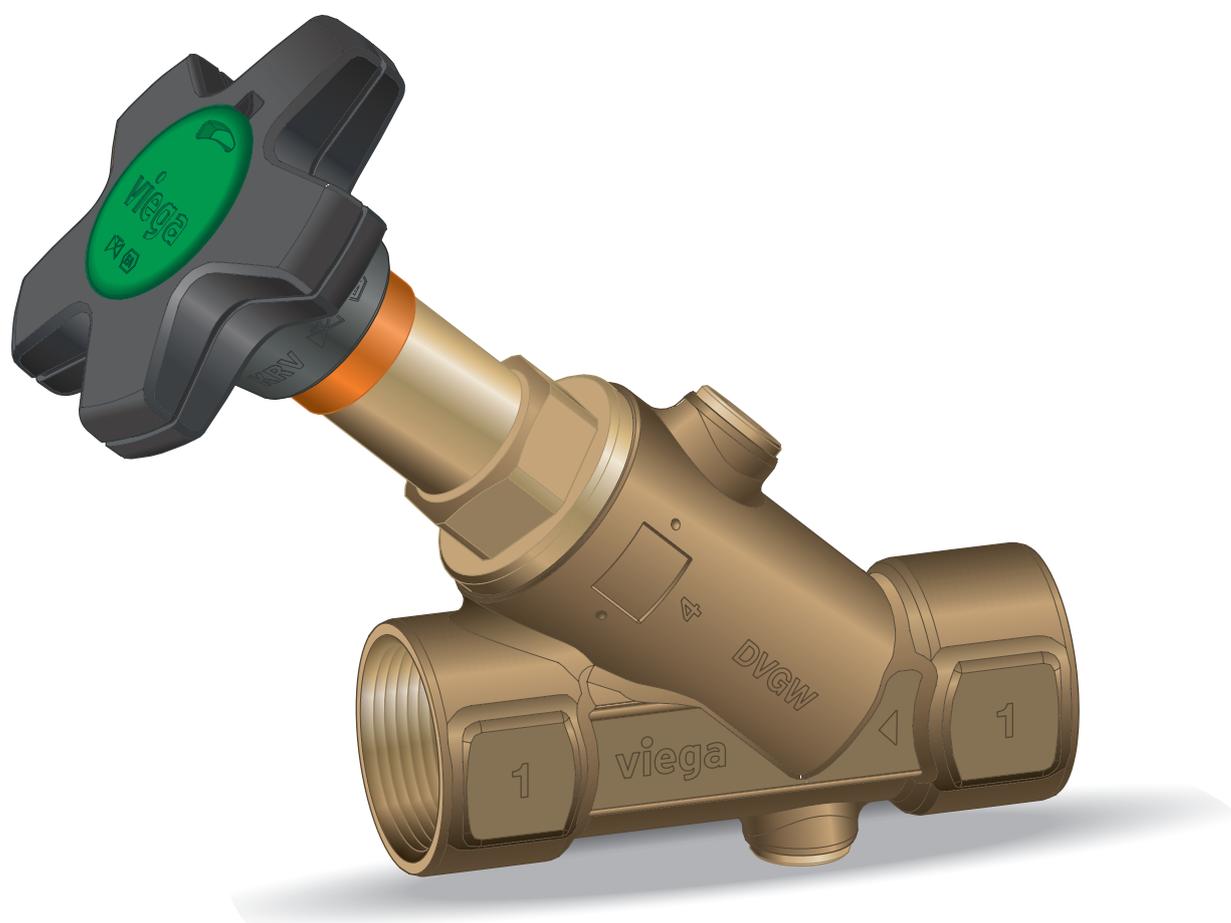


Instructions for Use

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



Model
2238.2

viega

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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 heating and sanitary professionals 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: Application areas

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 1988
Planning, execution, operation and maintenance of potable-water installations	VDI/DVGW 6023

Regulations from section: Media

Scope / Notice	Regulations applicable in Germany
Suitability for potable water	Trinkwasserverordnung (TrinkwV)

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 for plastic components for 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 1213

Regulations from section: Threaded connection

Scope / Notice	Regulations applicable in Germany
Threaded pair	DIN EN 10226-1
Permitted sealants	DIN 30660
Permitted sealants	DIN EN 751-2

Regulations from section: Marking on components

Scope / Notice	Regulations applicable in Germany
Designation noise class I	DIN EN 1213
EA marking for classification	DIN EN 1717

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: Establishing threaded connection

Scope / Notice	Regulations applicable in Germany
Threaded pair	DIN EN 10226-1
Sealant for threaded metal connectors in potable-water installations	DIN 30660

Regulations from section: Leakage test

Scope / Notice	Regulations applicable in Germany
Leakage test of potable-water installations	DIN EN 806, part 4
Leakage test of 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



Agree the use of the model for areas of application and media other than those described with Viega.

2.2.1 Areas of application

Use is possible in the following areas among others:

- potable water installations
- Industrial units

The general rules of engineering and the applicable directives must be observed for the planning, execution, operation and maintenance of potable water installations, see ↗ 'Regulations from section: Application areas' on page 5.

2.2.2 Media

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

- Maximum chloride concentration 250 mg/l pursuant to applicable regulations, see ↗ *'Regulations from section: Media'* on page 5

2.3 Product description

2.3.1 Overview



The Easytop system fittings comply with the test requirements specified in the applicable regulations, see ↗ *'Regulations from section: Overview'* on page 6.
Sound protection $L_{ap} \leq 20$ dB(A)

The model is equipped as follows:

- Valve casing made of silicon bronze
- Valve top made of zero-lead alloy (dead space free)
- Dual-sided Rp-thread
- Valve seat and valve plate unit made of stainless steel
- Non-rising spindle
- Position indication open/closed
- Handwheel, closed, with ergonomic shape, with exchangeable coloured plastic cap as media marking
- Combined backflow preventer (CBP)
- Drainage / test plugs G ¼ upstream and downstream of 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.

2.3.2 Threaded connection

Prerequisite for a threaded connection, which seals via a thread, is a threaded pair in accordance with applicable regulations, see ↗ *'Regulations from section: Threaded connection'* on page 6. Pursuant to these regulations, a permitted threaded pair comprises a conical external thread and a cylindrical internal thread, e.g. R ¾ and Rp ¾.

Only use commercially available and chloride-free, DVGW approved sealant in accordance with the applicable regulations to seal threads, see ↗ *'Regulations from section: Threaded connection'* on page 6.

2.3.3 Markings on components

The model is marked as follows:

- Flow direction indicator
- Noise class I pursuant to applicable regulations, see ↗ *'Regulations from section: Marking on components'* on page 6
- Dimension
- DVGW writing
- Position indicator below the handwheel, with CRV writing
- EA marking for classification in accordance with the applicable regulations, see ↗ *'Regulations from section: Marking on components'* on page 6

2.3.4 Compatible components

Please contact the Viega Service Center for questions on this subject.

2.3.5 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 reverse 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 potable water network, with the help of a spring-loaded valve cone. The dimension is dependent on the peak volume flow 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 potable water against contamination.

2.3.6 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.

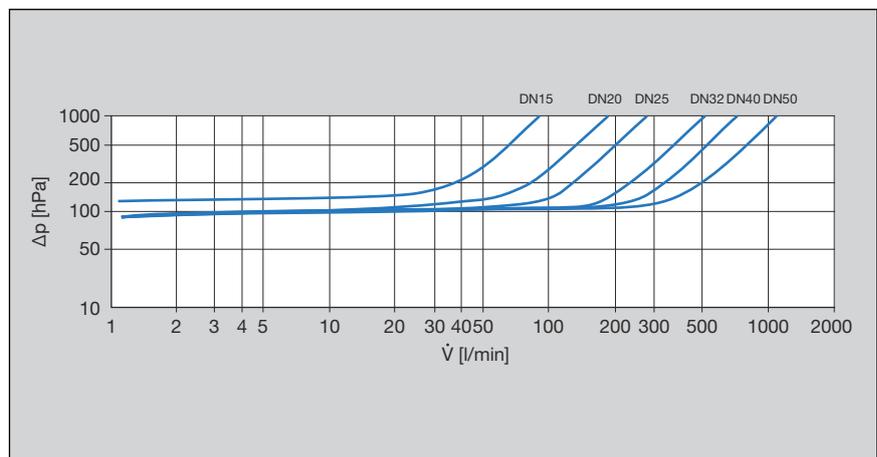


Fig. 1: Performance diagram pressure loss CRV press/threaded connection

2.4 Information for use

2.4.1 Corrosion

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

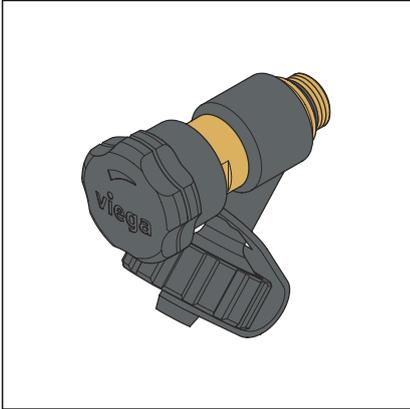
There are exceptions in the following cases:

- 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 6.

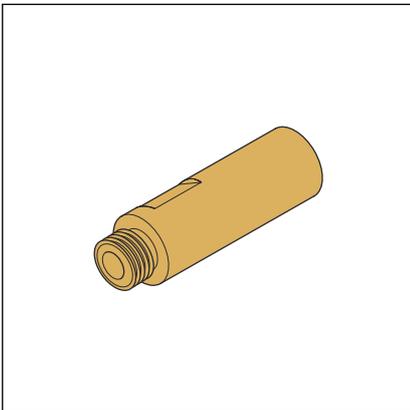
2.5 Optional accessories

The following optional accessories are available:



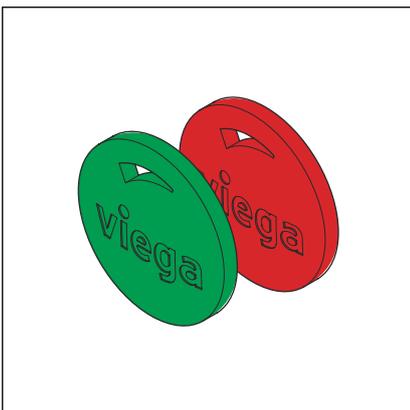
- Drainage valve

Fig. 2: Easytop drainage valve, model 2234



- Extension for drainage valve when using an insulating shell

Fig. 3: Easytop extension, model 2234.5



- Easytop media markings in the colours red and green for the identification of the corresponding area of use

Fig. 4: Easytop media marking, model 2237.25

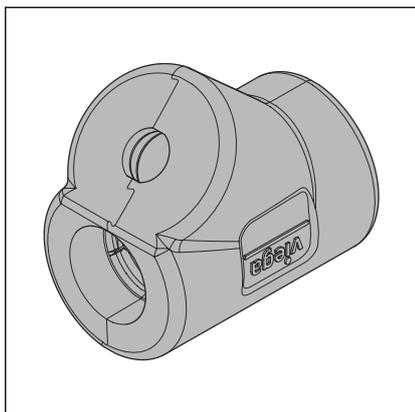


Fig. 5: Easytop insulating shell, model 2210.12

■ Insulating shells

Insulating shells

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.

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.
- Contaminated components may not be installed.

During assembly

Observe the following when mounting:

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

3.2 Assembly

3.2.1 Establishing the threaded connection

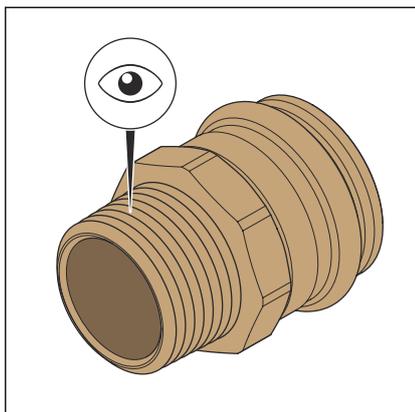
Sealing threaded connections

Only use the following materials for sealing threaded connections:

- Sealing hemp and sealing paste
- PTFE thread sealing tape
- Thread sealing thread

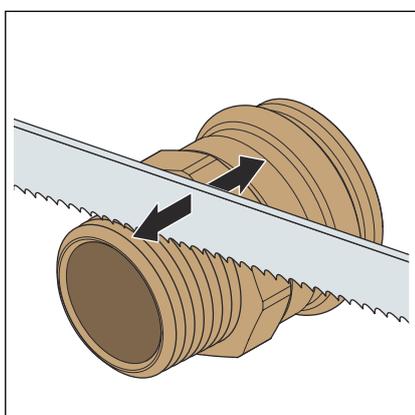


Viega R-external thread, knurled on site – no need to roughen before applying hemp.



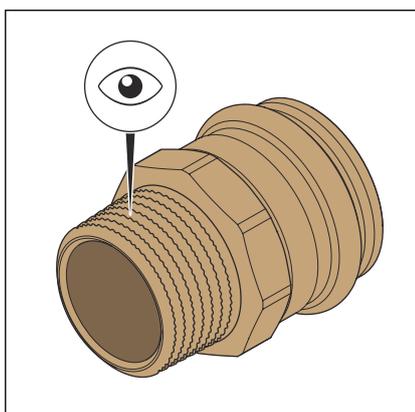
- Check that the thread is undamaged and in perfect condition.

To prevent the sealant from being pushed out when screwing in, Viega recommends roughening the surface of smooth threads.

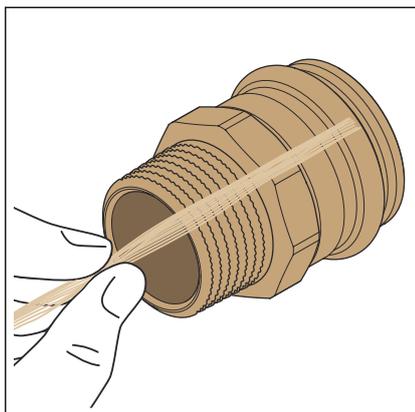


- Roughen the surface of the thread e.g. with a saw blade.

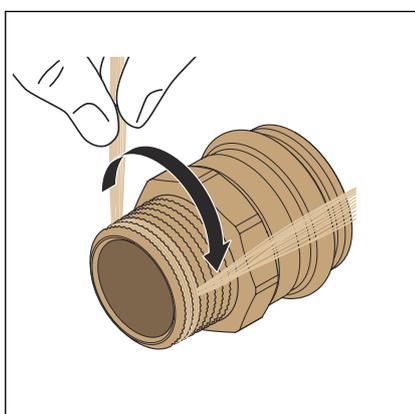
NOTICE! Be careful not to damage the thread flanks of the thread when roughening.



- The thread is roughened.

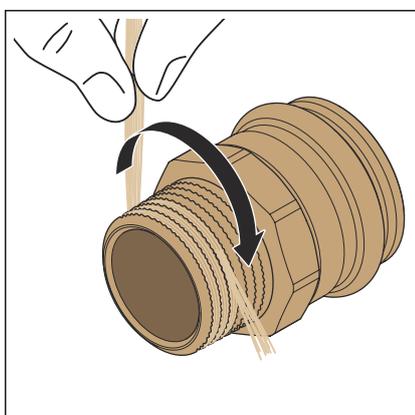


- Place some hemp fibres across the thread.

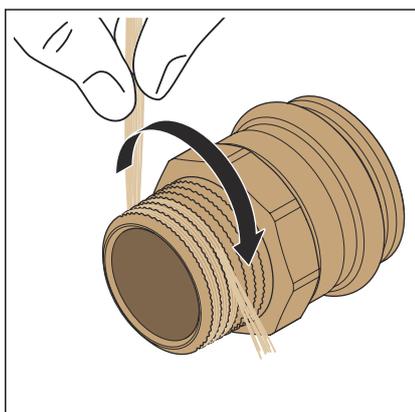


- Insert the hemp into the thread, starting from the surface to the outside, and always guide it over the hemp lying across.
- For right-hand threads, wind in a clockwise direction.
- Insert the hemp into the threaded grooves.

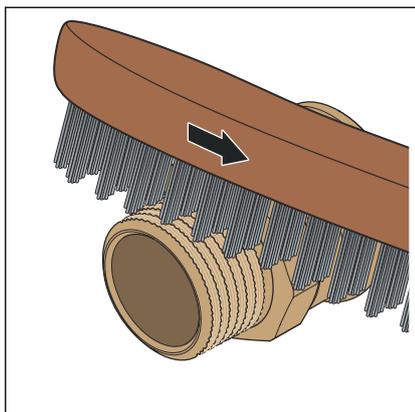
NOTICE! Make sure that there is no hemp on the thread crests. Only in the thread grooves and on the thread flanks does the hemp support the sealing function of the connection.



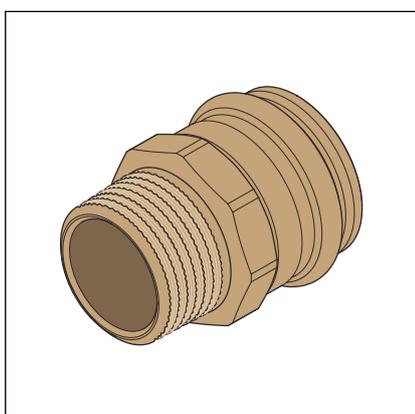
- Tie in the crosswise hemp threads on the last two to three turns.



- For left-hand threads, wind anticlockwise.



- After spooling the last hemp thread, work the hemp in evenly and firmly with a wire brush.

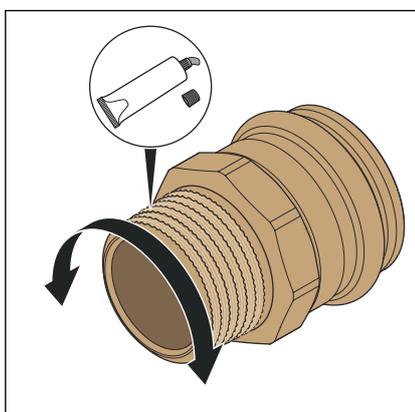


- ◇ The thread is sealed.

Applying thread sealing paste

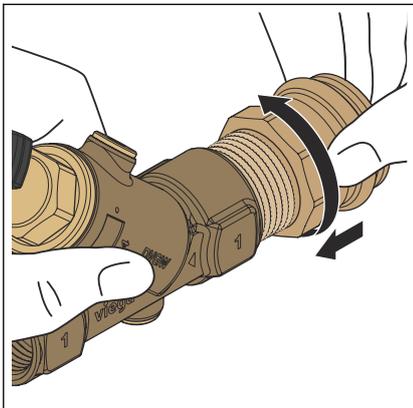
Sealing paste protects the hemp from drying out and chemical and biological decomposition, facilitates screwing in and fills any cavities remaining in the threads.

For threaded connections, only use non-curing sealants with DVGW or DIN DVGW markings in accordance with applicable guidelines, see ↗ *'Regulations from section: Establishing threaded connection' on page 7.*

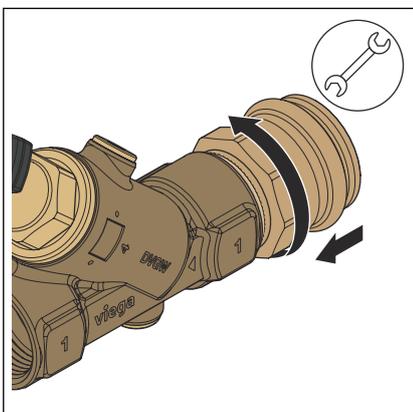


- Coat the hemp evenly with thread sealing paste.
- Ensure that the entire hemp/flax is covered with an even layer.

Screwing the threaded connection



- Screw the sealed male thread into the Viega fitting by hand.
- Make sure that no hemp is twisted out or pushed in front of the internal thread.



- Fix the fitting and tighten the threaded connector with a fork spanner.
- Install the fitting and connector in the piping.
- Perform a leakage test.

3.2.2 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 7.](#)

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.



Viega recommends actuating the fitting regularly and checking its function.

Replacing the valve top

If the valve top needs to be replaced, model 2238.22 can be used.

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.



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