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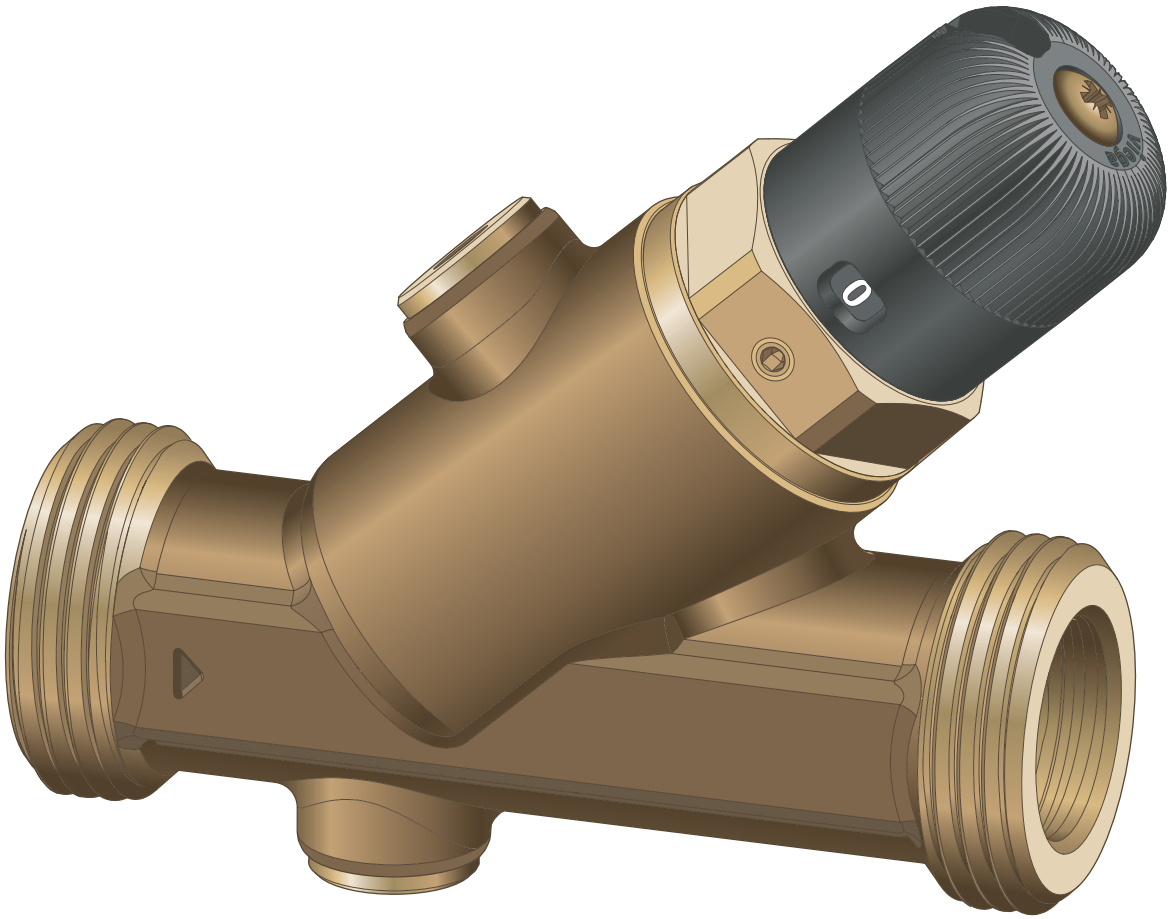
Instructions for Use

Easytop circulation regulation valve, static regulation valve with G-thread



for

Model
2282.3

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1 About these instructions for use

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 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

Regulations from section: Media

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

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.

The circulation regulation valve is suitable for the construction of potable-water installations according to DIN 1988-200 and EN 806-2, taking into account material selection according to DIN EN 12502-1 and in accordance with the Federal Environment Agency's assessment policy for metallic materials in contact with potable water. For use in other areas of application and in case of doubt over the correct material selection, contact Viega.

2.2.1 Areas of application

Use is possible in the following areas among others:

- Hot water circulation pipelines
- Internal circulation pipes laid in parallel

The general rules of engineering and the applicable directives must be observed for the planning, execution, operation and maintenance of potable water installations, see *Chapter 2.1 'Standards and regulations' on page 5*.

2.2.2 Media

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

- Potable water
- Maximum chloride concentration 250 mg/l pursuant to applicable regulations, see *Chapter 2.1 'Standards and regulations' 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 *Chapter 2.1 'Standards and regulations' on page 5*. Sound protection $L_{ap} \leq 20$ dB(A)

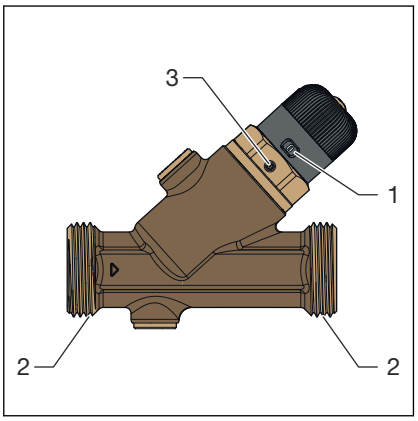


Fig. 1: Circulation regulation valve, model 2282.3

1 Scale
2 G-external threads
3 Locking screw

The model is equipped as follows:

- Valve casing made of silicon bronze
- Valve top made of silicon bronze
- Dual-sided G external thread
- Drain plugs for drainage valve G ¼
- Setting scale
- Key surface on the casing
- Regulating unit with ceramic discs

The static circulation regulation valve can be used to equalise and shut-off pipe sections.

2.3.2 Threaded connection

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

G-threads are sealed by pressing the sealing surfaces together. For this reason, no additional sealants (hemp, sealing paste / thread etc.) may be used.

2.3.3 Markings on components

The model is marked as follows:

- Flow direction indicator
- DVGW writing
- Setting scale
- Position indicator

2.3.4 Compatible components

The model is equipped with G-external threads according to the applicable regulations and compatible with the Profipress, Sanpress, and Sanpress Inox system, see *Chapter 2.1 'Standards and regulations' on page 5*.

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

2.3.5 Operating mode

The static Easytop circulation regulation valve is used in circulation pipes and allows hydraulic line calibration. The calibration takes place via a reproducible presetting.

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}]	1.0 MPa (10 bar)
Setting range	0 - 9

Flow control settings

The flow rates for the various settings are as follows:

Ceramic top	V in m³/h at Δp1000 mbar
Position 0 (closed)	0.00
Position 1	0.02
Position 2	0.06
Position 3	0.16
Position 4	0.33
Position 5	0.74
Position 6	1.18
Position 7	1.53
Position 8	2.24
Position 9	3.08

Target values

The required set values can be obtained from the diagrams below. The intermediate values can be set steplessly.

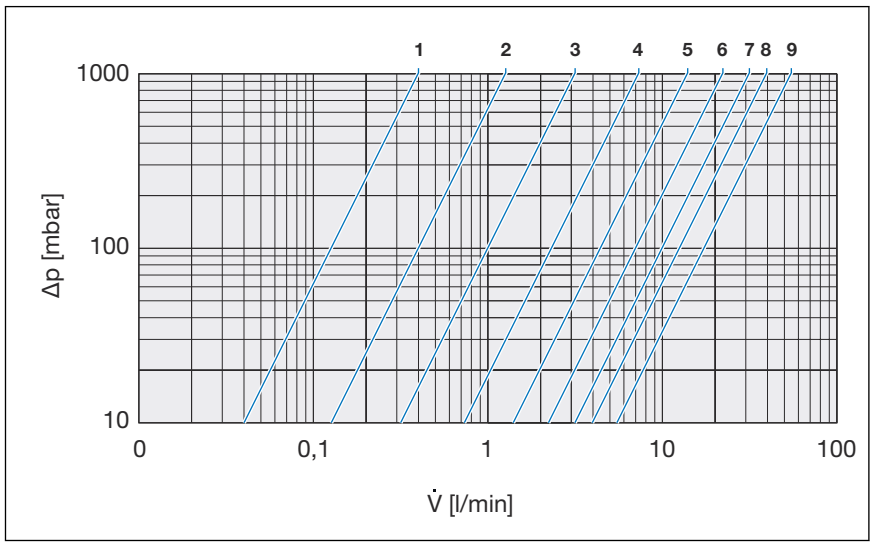


Fig. 2: Performance diagram

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

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 Accessories

The following optional accessories are available:

- Drainage valve

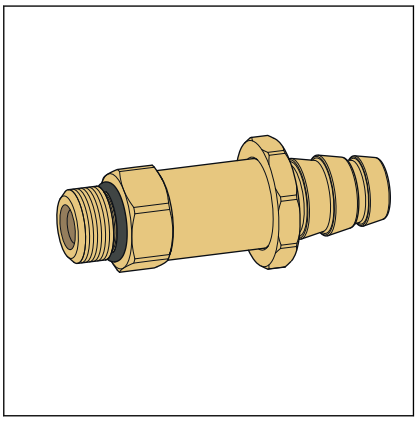


Fig. 3: Easytop drainage valve, model 2278.8

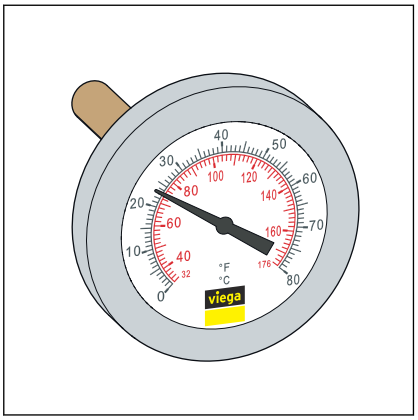


Fig. 4: Easytop thermometer, model 1026.6

- Thermometer

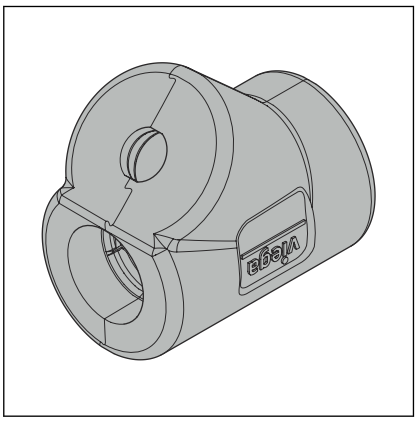


Fig. 5: Easytop insulating shell, model 2210.12

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

Observe the following when mounting:

- Use suitable tools
- Flow direction indicator
- When tightening the connection screw fitting, counter by holding the key surface of the valve.
- A piece of straight pipe of at least 3xd should be installed upstream from the fitting.

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.

Length expansion

For information, refer to the instructions for use of the Profipress, Sanpress and Sanpress Inox systems.

3.2 Assembly

3.2.1 Installation position

Installation position

Installation is possible in the riser pipe.

If there are multiple riser pipes on the floor during the installation of the thermostatic circulation regulation valve, then every riser pipe must have a circulation regulation valve mounted.

NOTICE!
According to the applicable directives, circulation regulation valves must be installed between the outlet of the hot water tank and the circulation inlet, see *Chapter 2.1 'Standards and regulations' on page 5*.

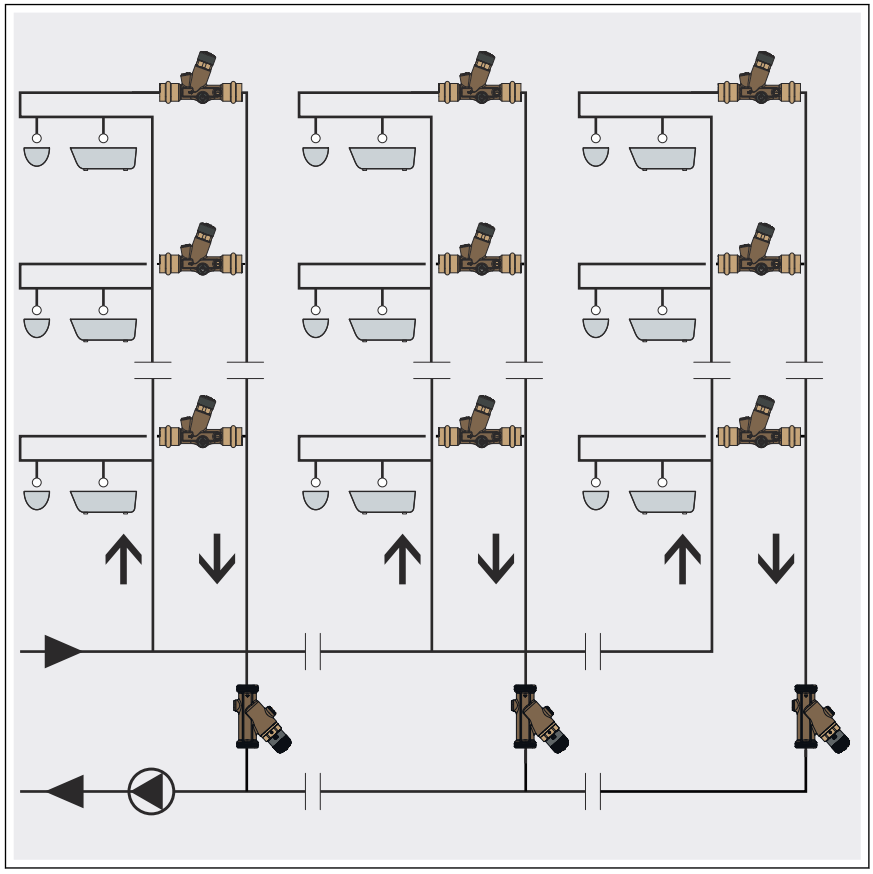


Fig. 6: Static CRV in the riser pipe

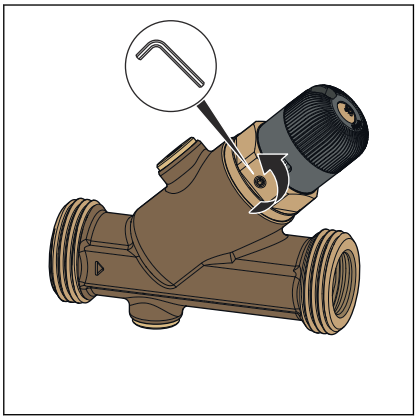
3.2.2 Settings

- Set the calculated flow values (see *Chapter 2.3.6 'Technical data' on page 8*) before commissioning.

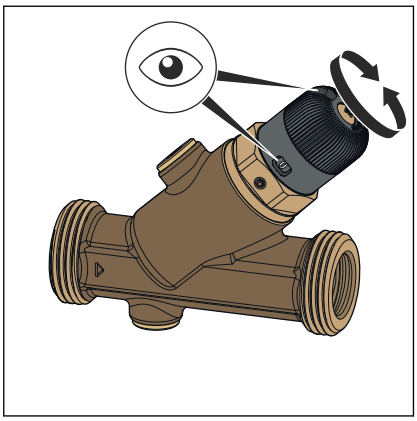
3.2.3 Adjusting the regulating valve

Requirements before commissioning:

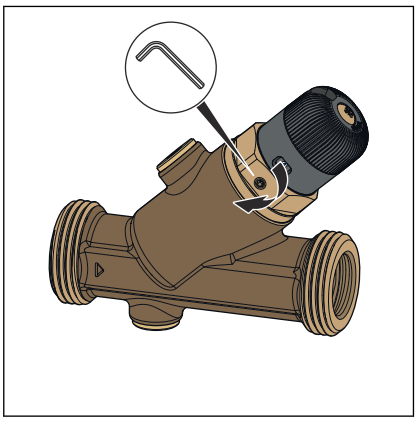
- There is a straight piece of pipe with a length of at least 3 × outside diameter upstream of the regulating valve.
- Adapt the length of the pipe to the installation length of the regulating valve. When replacing a different type of valve, a section may have to be cut out of the pipe
- Install the regulating valve in the pipe. Observe the marked flow direction.



➥ Loosen the locking screw with an Allen key (SW2). The locking screw is released as standard at the factory.



➥ Use the handwheel to set the required flow rate according to the flow rate table, see ***Chapter 2.3.6 'Technical data' on page 8***.



➥ Tighten the locking screw hand-tight.

3.2.4 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 *Chapter 2.1 'Standards and regulations' on page 5*.

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 guidelines for the operation and maintenance of potable water installations, see *Chapter 2.1 'Standards and regulations' on page 5*.

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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