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Valves, controls + systems

EN

Check valve for storage cylinder circuit for fresh water stations Regumaq X-25 and Regumaq X-45

Operating instructions

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1. General information

The original operating instructions were drafted in German.
The operating instructions in other languages have been translated from German.

Other relevant documents

- ▶ Also consult the operating instructions of the fresh water station used by you.

Regumaq X-25
www.oventrop.com/qr/1381125

Regumaq X-45
www.oventrop.com/qr/1381140

1.1 Validity of the operating instruction

These operating instructions are valid for the check valve for storage cylinder circuit for the fresh water stations Regumaq X-25 and Regumaq X-45.

1.2 Extent of supply

- Check valve for storage cylinder circuit
- Flat seals
- Safety and installation advice

1.3 Contact

Contact address

OVENTROP GmbH & Co. KG

Paul-Oventrop-Straße 1

59939 Olsberg

GERMANY

Technical services

Phone: +49 (0) 29 62 82-234

1.4 Declaration of conformity

Oventrop GmbH & Co. KG hereby declares that this product complies with the basic requirements and other relevant provisions of the EU Directives concerned.

The declaration of conformity can be obtained from the manufacturer.

1.5 Symbols used

	Highlights important information and further explanations.
▶	Action required
•	List
1. 2.	Fixed order. Steps 1 to X.
▷	Result of action

2. Safety-related information

2.1 Correct use

Operating safety is only guaranteed if the product is used correctly.

The check valve for storage cylinder circuit may be used in the Oventrop fresh water stations Regumaq X-25 and Regumaq X-45 as non-return valve in the storage cylinder circuit.

Any other use of the product will be considered incorrect use.

Claims of any kind against the manufacturer and/or its authorised representatives due to damage caused by incorrect use will not be accepted.

Observance of the operating instructions is part of compliance with correct use.

2.2 Warnings

Each warning contains the following elements:

Warning symbol SIGNAL WORD
Type and source of danger Possible consequences if the danger occurs or the warning is ignored. ▶ Ways to avoid the danger.

The signal words identify the severity of the danger arising from a situation.

⚠ DANGER
Indicates an imminent danger with high risk. The situation will lead to death or serious injury if not avoided.

⚠ WARNING
Indicates a possible danger with moderate risk. The situation may lead to death or serious injury if not avoided.

⚠ CAUTION
Indicates a possible danger with lower risk. The situation will lead to minor and reversible injury if not avoided.

NOTICE
Indicates a situation that may lead to damage to property if not avoided.

2.3 Safety notes

We have developed this product in accordance with current safety requirements.

Please observe the following notes concerning safe use.

2.3.1 Danger to life due to electric current

Danger to life due to contact with live components.

- ▶ Completely disconnect the station from the power supply.
- ▶ Check that no voltage is present.
- ▶ Secure the station against switching back on.
- ▶ Only install in dry indoor areas.

2.3.2 Danger caused by inadequately qualified personnel

Any work on this product must only be carried out by qualified tradespeople.

As a result of their professional training and experience as well as their knowledge of the relevant legal regulations, qualified tradespeople are able to carry out any work on the described product professionally.

User

The user must be informed how to operate the product by qualified tradespeople.

2.3.3 Risk of burns due to hot components and surfaces

- ▶ Allow the station to cool down before working on it.
- ▶ Wear suitable protective clothing to avoid unprotected contact with hot system components and fittings.

2.3.4 Availability of the operating instructions

Any person working on the product has to read and apply these operating instructions.

The operating instructions must be available at the installation location of the product.

- ▶ Hand these operating instructions and all other relevant documents over to the user.

3. Technical description

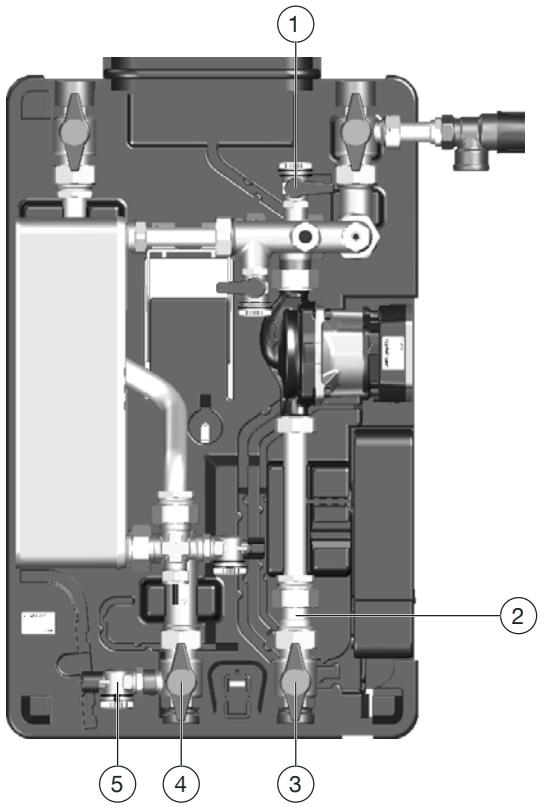
3.1 Functional description

The check valve for storage cylinder circuits automatically prevents any gravity circulation in the storage cylinder circuit of the Oventrop fresh water stations Regumaq X-25 and Regumaq X-45.

4. Transport and storage

Temperature range	0 °C to +40 °C
Relative air humidity	Max. 95%
Particles	Store dry and free from dust
Mechanical influences	Protected from mechanical agitation
Weather influences	Do not store outdoors
	Protect from direct sunlight
Chemical influences	Do not store together with aggressive fluids

5. Installation



Illust. 1: Front view

(1)	Fill and drain ball valve for storage cylinder circuit return
(2)	Check valve (non-return valve) for storage cylinder circuit
(3)	Isolating ball valve for storage cylinder circuit return
(4)	Isolating ball valve for storage cylinder circuit supply
(5)	Fill and drain ball valve for storage cylinder circuit supply

WARNING

Danger to life due to electric current

Danger to life due to contact with live components.

- ▶ Completely disconnect the product from the power supply.
- ▶ Check that no voltage is present.
- ▶ Secure the product against switching back on.
- ▶ Only install the product in dry indoor areas.

CAUTION

Risk of scalding due to hot fluids

If the station has been in operation, there is a risk of scalding due to the unintentional discharge of hot water or water steam.

- ▶ Allow the system to cool down.
- ▶ Wear suitable protective clothing.

CAUTION

Risk of burns due to hot components

Any unprotected contact with hot components may lead to burns.

- ▶ Allow the system to cool down.
- ▶ Wear safety gloves.

5.1 Tools required

- 27 mm spanner
- 34 mm spanner
- 38 mm spanner

5.2 Replacement of the check valve

5.2.1 Draining of the storage cylinder circuit

1. Completely disconnect the station from the power supply.
2. Lift off the upper shell.
3. Close the isolating ball valve for storage cylinder circuit supply (4).
4. Close the isolating ball valve for storage cylinder circuit return (3).
5. Unscrew the caps of the fill and drain ball valves for storage cylinder circuit supply (5) and storage cylinder circuit return (1).
6. Connect a draining hose to the fill and drain ball valve for storage cylinder circuit supply (5).
7. Open the fill and drain ball valve for storage cylinder circuit supply (5) first and then the fill and drain ball valve for storage cylinder circuit return (1) to drain off the storage cylinder circuit.

5.2.2 Removal of the check valve

NOTICE	
	Damage to electrical components due to splashing water Water escapes when loosing the collar nuts of the check valve. This may cause damage to electrical components. ▶ Keep suitable cloths and a container available to keep escaping water away from the controller and other electrical components.

1. Protect the controller from splashing water.
2. Loosen the collar nuts of the check valve.

	Use a 38 mm spanner for loosening the collar nuts and 27 mm and 34 mm spanners for countering.

3. Remove the check valve.

5.2.3 Installation of the new check valve

1. Fit the new check valve.

	Replace the flat seals with the flat seals included in the delivery.

2. Tighten the collar nuts.

	Observe the information regarding torques in the chapter "Technical data" of the operating instructions of your fresh water station.

6. Commissioning

- ▶ Fill and bleed the relevant circuit as described in the chapter "Commissioning" of the operation instructions of your fresh water station.
- ▶ Connect the station to the power supply.
- ▷ The fresh water station is ready for operation.

7. Disposal

NOTICE	
	Risk of environmental pollution Incorrect disposal (for instance with domestic waste) may lead to environmental damage. ▶ Dispose of packaging material in an environmentally friendly manner. ▶ Dispose of the components appropriately.

If no return or disposal agreement has been made, dispose of the product yourself.

- ▶ If possible, recycle the components.
- ▶ Dispose of components which cannot be recycled according to the local regulations. Disposal with domestic waste is not permitted.

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