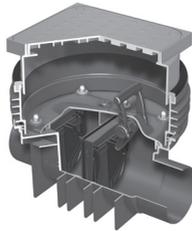


## Triplex-K/Quatrix-K backflow stops

### Assembly, installation and inspections

#### Triplex-K backflow stops and cleaning pipes (access points)



with shaft system for installation below ground

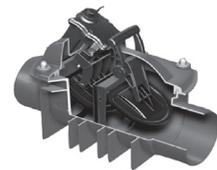


without shaft system, for installation in exposed pipelines

#### Quatrix-K automatic faecal backflow stops



with shaft system for installation below ground



without shaft system, for installation in exposed pipelines

**The instructions for use for the Quatrix-K are included in the electrics pack!**



To ensure safe and proper usage, read the installation instructions and associated instructions for use carefully, provide them to end users, and keep them safely throughout the service life of the product.

## Introduction

ACO Passavant GmbH "ACO" would like to thank you for your confidence. You have purchased a product that reflects best engineering practice and has undergone quality checks prior to delivery to ensure its proper condition.



Illustrations in these instructions are provided for basic understanding only and may differ from your version of the product and the installation situation.

## Service, spare parts and accessories

For spare parts and accessories please see the "Product catalogue":  <http://www.aco.com>  
Please feel free to contact ACO Service if you require further information.

ACO Service  
Im Gewerbepark 11c  
36457 Stadtlengsfeld  
Germany

Tel.: + 49 36965 819-444  
Fax: + 49 36965 819-367  
service@aco.com

For products purchased outside of Germany please visit  
local ACO Group website,  <http://www.aco.com>

## Guarantee

For information on warranties, please contact your local ACO stockist or local ACO Group member.

## Warning messages and use of symbols

Certain information are marked in these instructions as follows:

**NOTICE** This signal word indicates the risk of damage to the product or environment



Tips and additional information to make your work easier



Bullets



Steps to be carried out in the specified order



References to further information contained in these instructions or in other documents

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# 1 For your safety



Read the instructions before installing and using the backflow stop (cleaning pipe) to avoid personal injury and damage to property.

## 1.1 Planning

EN 12056-1 (5.5.2 Flooding within the building drainage system): "The design of a draining system shall minimize the risk of blockage with normal predictable usage of the system. The design of drainage systems shall avoid cross-flow from one sanitary appliance to another."

EN 12056-1 (5.5.3 Flooding prevention): "Wastewater collected or stored below flood level shall be discharged into the drainage system via an automatic wastewater lifting plant. In exceptional cases, anti-flooding valves may be permitted (see EN 12056-4)."

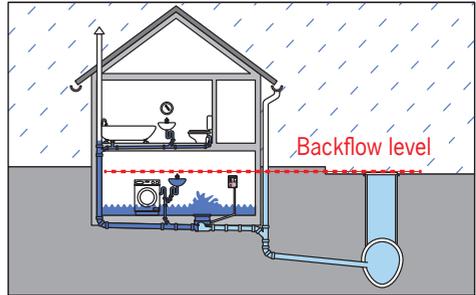
In the absence of any other specifications regarding the backflow level (e.g. in local byelaws governing public drainage systems), it is deemed to be the top of the road surface where the sewer connection is located.

**NOTICE** Backflow stops are designed for domestic use and may only be used if local building regulations and the following requirements according to EN 12056-4 are adhered to:

- Gradient from the drainage line into the sewerage system.
- Flooding does not present a health hazard or threaten valuable property.
- There are only a small number of users and they have a WC available above the backflow level.
- Use of the connected drainage points can be suspended in the event of a backflow.

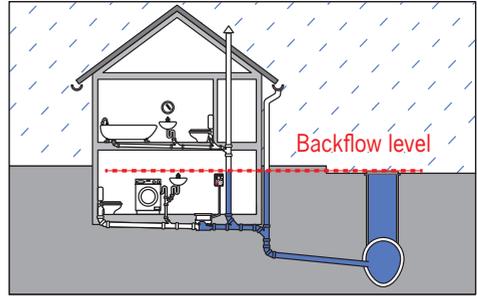
### Incorrect installation:

**NOTICE** Incorrect installation may lead to self-flooding and backflow if drainage points above the flood level are routed to a backflow stop.



**Correct installation:**

Only route drainage points below the flood level to a backflow stop. Connect downpipes for surface water downstream of the backflow stop in flow direction .



## 1.2 Intended use

When wastewater drains overflow, e.g. following heavy rain, blockages or pumping station failures, wastewater can backflow and cause damage to buildings. Backflow stops are designed for domestic use and protect buildings against water damage. Cleaning pipes do not prevent backflow and are designed to be used for inspection and cleaning.

Cleaning pipes and backflow stops:

- Versions with a shaft system are available for installation below ground.
- Versions without a shaft system are available for installation in exposed pipelines.
- Triplex K-0 (type 0), K-1 (type 1) backflow stops are tested to EN 13564-1 and approved for rainwater recycling systems which have overflows connected to the storm water drainage line.
- Triplex K-2 (type 2) backflow stops are tested to EN 13564-1 and approved for continuous piping systems for wastewater free of faeces.
- Quatrix-K automatic faecal backflow stops (type 3F) are tested to EN 13564-1 and approved for wastewater both with and without faeces.

Hazardous substances may not be drained:

- Solids, e.g. ashes, glass, sand, textiles, cardboard
- Corrosive substances, e.g. acids, lyes, salts
- Foaming substances, e.g. cleaning, dishwashing and washing agents in large quantities
- Poisons, e.g. pesticides, pest control agents
- Oil and grease

### 1.3 Owner's responsibility

Functional reliability is only warranted if users perform monthly inspections and qualified technicians (for backflow stops type 3F) inspect and service the system every six months.

Please contact your local ACO stockist or Group member who will be pleased to recommend approved inspection and servicing technicians.

### 1.4 Personnel qualification

Skills required for installation, inspection and servicing:

- Knowledge of buildings and building services
- Assessment of wastewater technology applications
- Excavating recesses (on-site building work)
- Installation of drainage lines
- Properly qualified personnel\* for six-monthly inspections and servicing of backflow stops (types 0, 1 and 2).
- Properly qualified technicians\*\* for six-monthly inspections and servicing of backflow stops (type 3F).

*\*Definition according to DIN 1986-100: "Personnel of the operating company or of appointed third parties are regarded as "properly qualified" if, on account of their training, their knowledge and their experience gained through practical work, they can ensure that they can expertly carry out evaluations or tests in the specialised field in question.*

*Properly qualified personnel can acquire the necessary expertise to perform certain inspections and function tests and/or checks, e.g. on separation systems, small sewage plants or backflow systems (excl. type 3 for wastewater containing faeces) in courses with subsequent on-site induction such as are offered, for example, by relevant manufacturers, trade associations, chambers of crafts or expert organisations operating in the field of separation technology."*

*\*\*Definition according to DIN 1986-100: "Properly qualified technicians work for companies other than the operating company, or are experts or other institutions with documented proof of the necessary expertise for operating, servicing and inspecting separator units to the extent outlined above, and who have the technical equipment required to inspect separator units. In individual cases in larger companies, these inspections may also be performed by properly qualified technicians working for the operating company provided they are authorised to work independently and are not bound by instructions, and possess the same level of qualification and access to the necessary technical equipment."*

## **1.5 Personal protective equipment**

Depending on the site requirements, personal protective equipment may be required, e.g. a helmet where there are low ceilings, protective footwear during the construction phase.

## 2 Product description

### 2.1 Product features

General features:

- Large cleaning and maintenance openings
- Connecting pipe in form of a spigot

Shaft system version:

- Adjustable height and reversible top cover
- Surface water-tight reversible cover - plastic finish or tile insert
- Load class: K3 tested to EN 1253-1: Traffic-free surfaces with a maximum permitted load of up to 300 kg.

Features of Triplex K cleaning pipe:

- Suitable for rainwater, and wastewater with and without faeces
- Can be upgraded to type 0, 1, 2 or type 3F backflow stop as per EN 13564-1

Features of Triplex K-0 single backflow stop:

- Suitable for rainwater, type 0 as per EN 13564-1
- Automatic self-closing backflow flap
- Can be upgraded to type 1, 2 or 3F as per EN 13564-1

Features of Triplex K-1 single backflow stop:

- Suitable for rainwater, (type 1) as per EN 13564-1
- Automatic self-closing backflow flap combined with an emergency flap
- Can be upgraded to type 2 or 3F as per EN 13564-1

Features of Triplex K-2 double backflow stop:

- Suitable for wastewater free of faeces, (type 2) as per EN 13564-1
- Automatic self-closing backflow flap, and an automatic self-closing backflow flap combined with an emergency flap
- Can be upgraded to type 3F as per EN 13564-1

Features of the Quatrix-K automatic faecal backflow stop:

- Suitable for wastewater both with and without faeces, (type 3F) as per EN 13564-1
- Electronic measuring system with a pressure sensor detects backflow automatically
- Electronic monitoring of the drive function
- Automatically closing operating flap (backflow flap) in the event of backflow, and one emergency flap
- Alarm sounds if backflow occurs
- Battery operation in the event of a mains failure
- Control unit is easy to operate
- Isolated connection for notification systems (PC, telephone, alarm)

# Triplex-K/Quatrix-K backflow stops

## Product description

### 2.2 Product identification

The following table provides an overview of the Triplex backflow stops and cleaning pipes, and Quatrix-K automatic faecal backflow stops. The relevant type is shown on the lid of the casing (adhesive label).

**NOTICE** Check that none of the delivered items are damaged. Do not install any damaged parts; report them to the supplier, so that any claims can be processed.

	Designation	Art. no.	Nominal width DN/OD	Mark product
<b>Without shaft system, for installation in exposed pipelines</b>	Triplex K Cleaning pipe (access point)	620352	110	○
		620478	125	○
		620353	160	○
	Triplex K-0 Simple backflow stop	620356	110	○
		620480	125	○
		620357	160	○
	Triplex K-1 Simple backflow stop	620360	110	○
		620482	125	○
		620361	160	○
	Triplex K-2: Double backflow stop	620364	110	○
		620484	125	○
		620365	160	○
	Quatrix-K Automatic faecal backflow stop	620368	110	○
		620486	125	○
		620369	160	○

## Triplex-K/Quatrix-K backflow stops

### Product description

	<b>Designation</b>	<b>Art. no.</b>	<b>Nominal width DN/OD</b>	<b>Mark product</b>
<b>With shaft system for installation below ground</b>	Triplex K Cleaning pipe (access point)	620354	110	○
		620479	125	○
		620355	160	○
	Triplex K-0 Simple backflow stop	620358	110	○
		620481	125	○
		620359	160	○
	Triplex K-1 Simple backflow stop	620362	110	○
		620483	125	○
		620363	160	○
	Triplex K-2: Double backflow stop	620366	110	○
		620485	125	○
		620367	160	○
	Quatrix-K Automatic faecal backflow stop	620370	110	○
		620487	125	○
		620371	160	○

### 2.3 Dimensions and weights

#### Triplex K/ Triplex K-0 (for exposed pipelines)

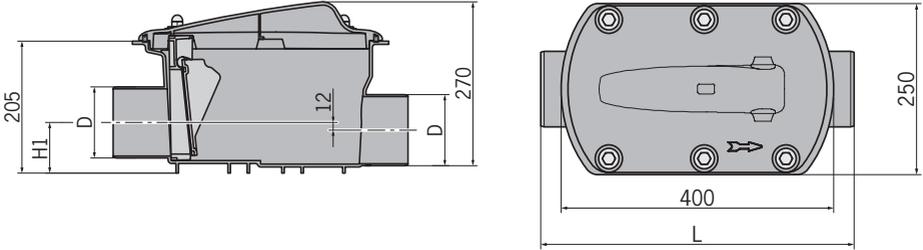


Illustration: Triplex K-0

Nominal width DN/OD	D Diam. [mm]	L [mm]	H1 [mm]	Weight [kg]
110	110	460	79	4.5 (K cleaning pipe) 4.9 (K-0)
125	125	469	86	
160	160	504	104	

#### Triplex K-1 / Triplex K-2 (for exposed pipelines)

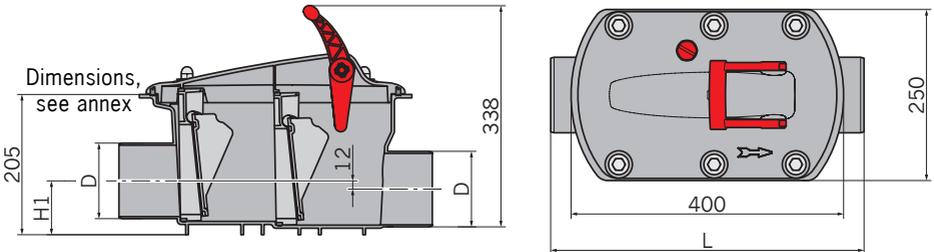
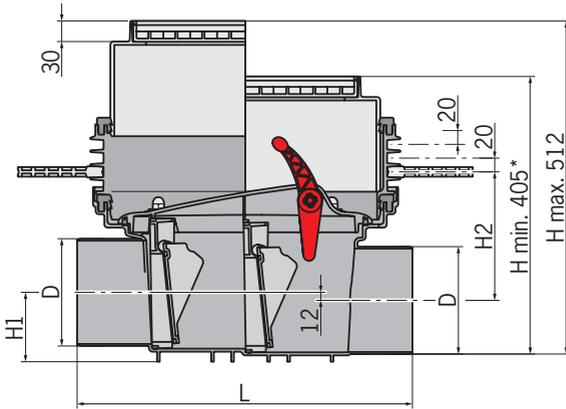


Illustration: Triplex K-2

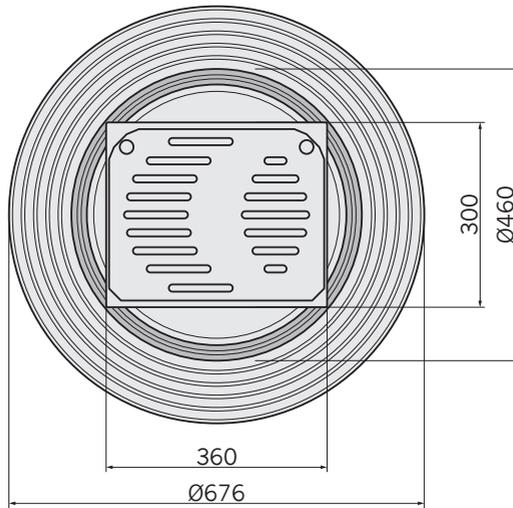
Nominal width DN/OD	D (Diam.) mm]	L [mm]	H1 [mm]	Weight [kg]
110	110	460	79	4.9 (K-1) 5.1 (K-2)
125	125	469	86	
160	160	504	104	

**Triplex K/ Triplex K-0/ Triplex K-1/ Triplex K-2 (with shaft system)**



\*To upgrade to a Quatrix-K automatic faecal backflow stop, the minimum height requirement is 460 mm.

Dimension Hmin. = 405 – 426 mm can be achieved by reducing the length of the top section. (Hmax. = 512 mm).



**Illustration: Triplex K-2**

Nominal width DN/OD	D (Diam.) [mm]	L [mm]	H1 [mm]	H2 [mm]	Space [mm]	Weight [kg]
110	110	460	79	217	560 x 710	11.9 (K)
125	125	469	86	210	560 x 730	12.3 (K-0)
160	160	504	104	192	560 x 820	12.3 (K-1)
						12.7 (K-2)

# Triplex-K/Quatrix-K backflow stops

## Product description

### Quatrix-K (for exposed pipelines)

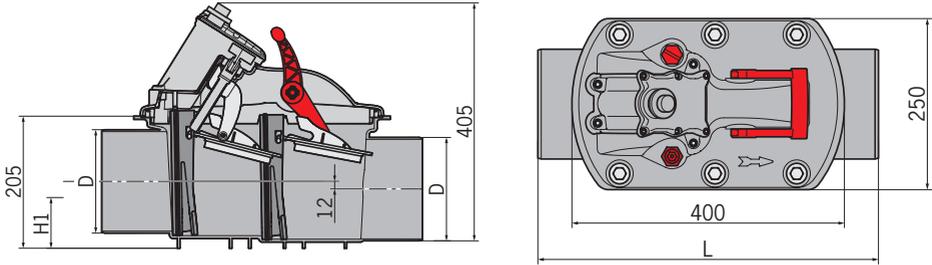


Illustration: Quatrix K

Nominal width DN/OD	D (Diam.) [mm]	L [mm]	H1 [mm]	Weight [kg]
110	110	460	79	9.1
125	125	469	86	
160	160	504	104	

Quatrix-K (with shaft system)

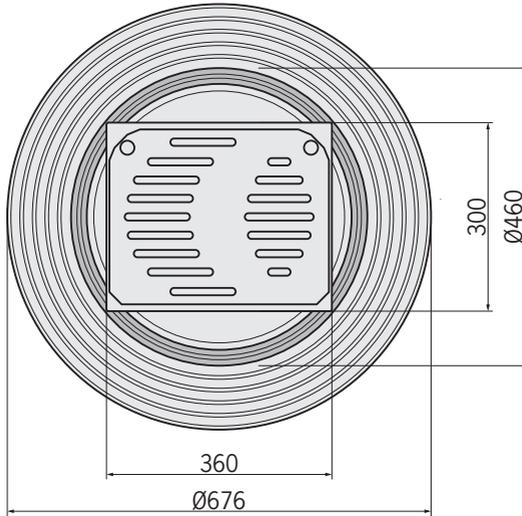
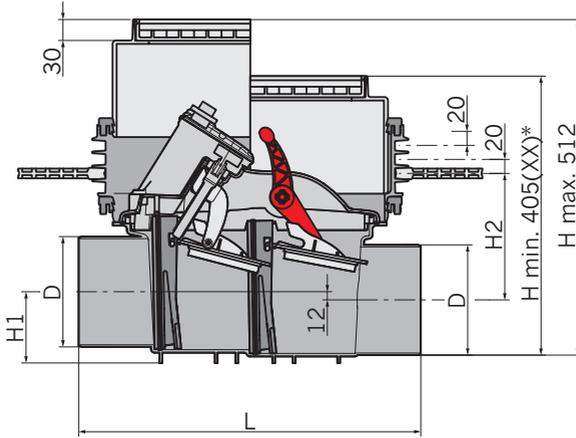


Illustration: Quatrix K

Nominal width DN/OD	D (Diam.) [mm]	L [mm]	H1 [mm]	H2 [mm]	Space [mm]	Weight [kg]
110	110	460	79	217	560 x 710	15.4
125	125	469	86	210	560 x 730	
160	160	504	104	192	560 x 820	

## 3 Installation

This section describes the installation procedure with the help of two examples:

- 📖 Section 3.1 "Installation in exposed pipelines", and underground installation with shaft system,
- 📖 Section 3.2 "Installation underground".

The installation procedure for Triplex K cleaning pipes (access points) and Quatrix-K automatic faecal backflow stops is the same.

These installation instructions are a guideline only and may vary for each individual installation.

### 3.1 Installation in exposed pipelines

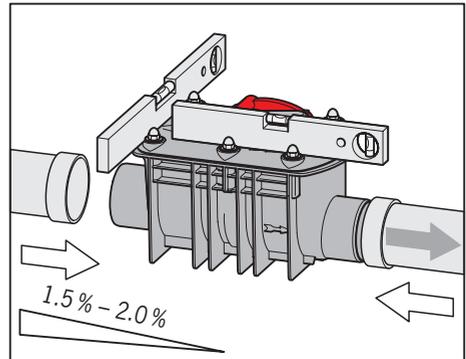
**NOTICE** Installation is only permissible in frost-protected pipelines ( $> 5\text{ }^{\circ}\text{C}$ ).

Observe the following during installation:

- Use connectors (coupling sockets, adapters) when connecting to the pipeline.
- The installation site must be easily accessible at all times for operation and servicing work.

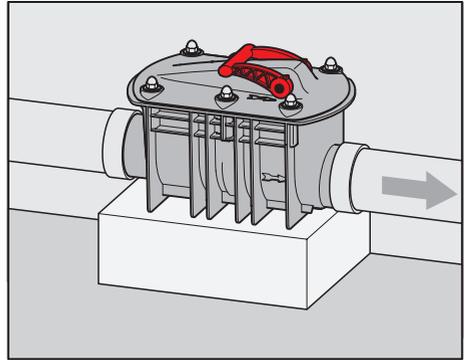
**NOTICE** Pipeline slope to the drains must be 1.5 % to 2.0 %. The backflow stop has a built-in gradient, the outflow from the backflow stop is 12 mm lower than the inlet.

- ➔ Make sure backflow stops are aligned vertically and horizontally, e.g. using a spirit level.
- ➔ Connect the backflow stop in the direction of flow (the direction of flow is indicated by an arrow on the cover of the casing) to the pipeline, using the connectors.



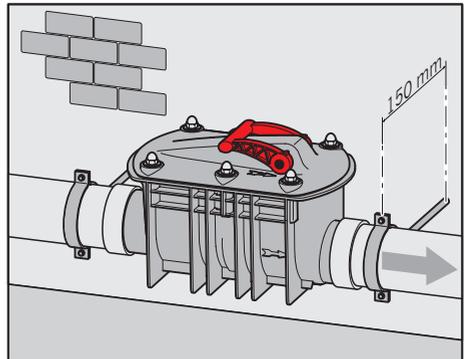
## If not fixed to a wall:

- Support backflow stop e.g. with a bracket.



## When fixed to a wall:

- Attach the pipe brackets to the wall above and below the backflow stop at least 150 mm apart.



**NOTICE** Emergency flap must be open so that water can flow through.

- Check the emergency flap  Section 4.2 "Activating the emergency flap" (does not apply for Triplex K, K-0).

### 3.2 Installation underground

The following example describes the initial installation of a backflow stop with (optional) extension.

**NOTICE** Installation is only permissible in frost-protected ground ( $> 5\text{ }^{\circ}\text{C}$ ).

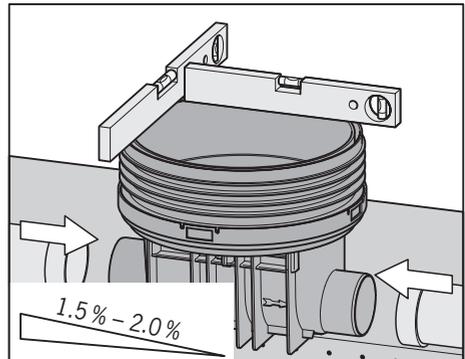
Observe the following during installation:

- Use connectors (coupling sockets, adapters) when connecting to the pipeline.
- The installation site must be easily accessible at all times for operation and servicing work.

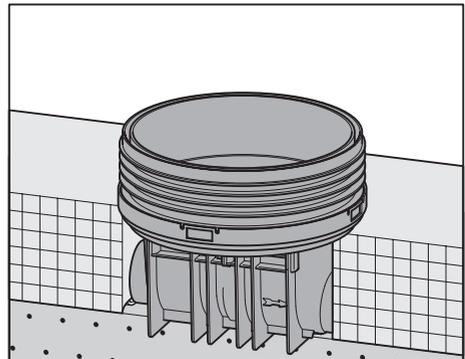
**NOTICE** Functional parts (backflow flaps, lids etc.) must not be contaminated with building materials which might hinder their movement.

**NOTICE** Pipeline slope to the drains must be 1.5 % to 2.0 %. The backflow stop has a built-in gradient, the outflow from the backflow stop is 12 mm lower than the inlet.

- Make sure backflow stops are aligned vertically and horizontally, e.g. using a spirit level.
- Connect the backflow stop in the direction of flow (an arrow on the cover of the casing shows the direction of flow) of the pipeline, using the connectors.



- Carry out any required ground work.

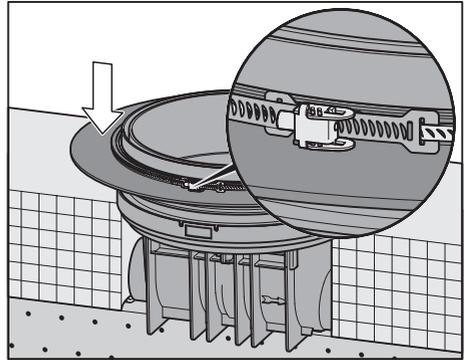


### For impermeable concrete use a sealing flange (art. no. 620510):

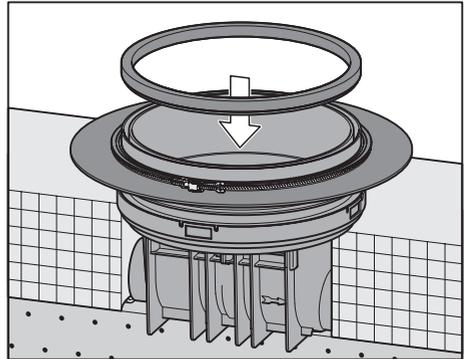


The sealing flange can be inserted gradually into the grooves of the adaptor to ensure the necessary coverage of the impermeable concrete.

- Insert sealing flange,  
 Sealing flange: instructions for use.



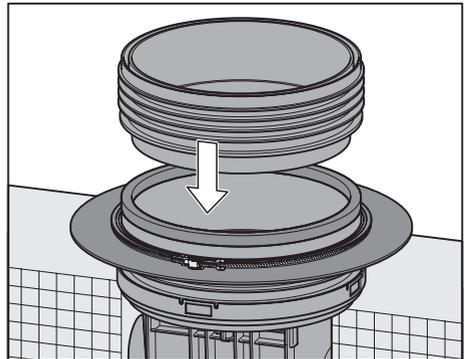
- Lubricate seal and insert in the groove of the adaptor.



### Insert extension (art. no. 620381):

**NOTICE** Only one extension may be used.

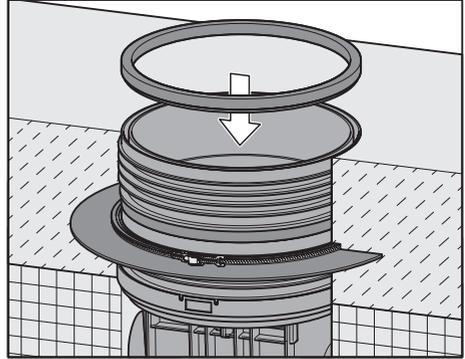
- Insert the extension in the adaptor, making sure the seal remains in the groove.



# Triplex-K/Quatrix-K backflow stops

## Installation

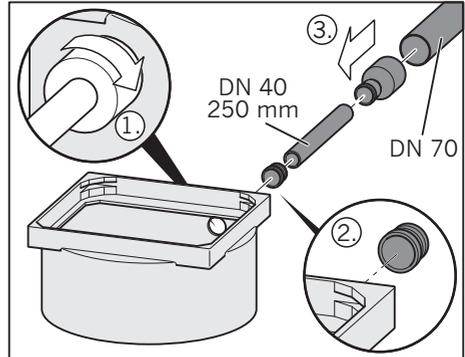
- Lubricate seal and insert in the groove of the extension.



### For Quatrix-K and subsequent upgrades:

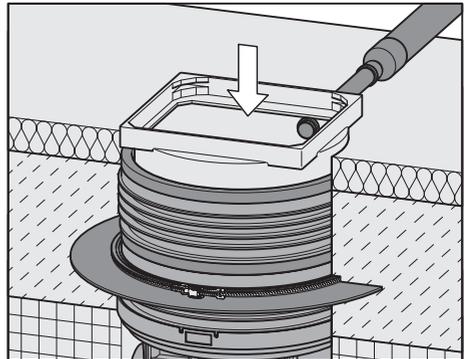
Quatrix-K requires an electric cable and a sensor cable, which are fed through a cable duct.

- Drill through the top section using a hole saw (50 mm diameter) (1).
- Insert a cable duct seal in the drilled hole (2).
- Insert the cable duct DN 40 (length approx. 25 cm) into the cable duct seal and expand the cable duct with an adapter fitting to DN 70 (3).



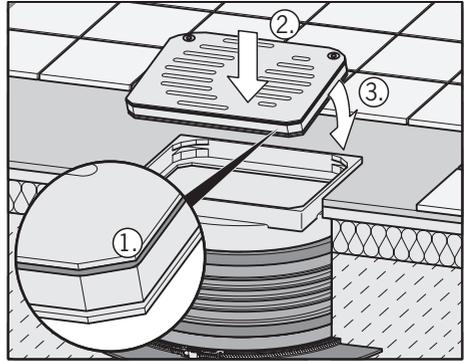
**NOTICE** Cable duct must be laid running down (at least 1 %) into the backflow stop so that condensation can drain into the backflow stop. Use bends of  $\leq 45^\circ$  to create any angled transitions e.g. between floor and wall.

- Insert the top section and align to the top edge of the finished floor and tile pattern.



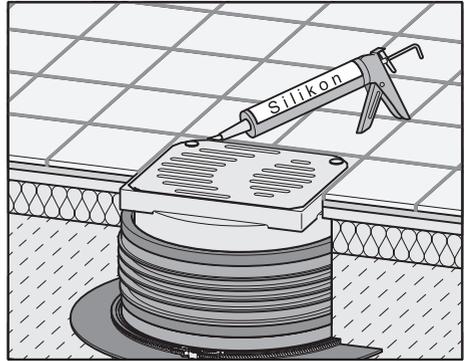
**NOTICE** The cover must be fitted with an O-ring if further additions to the floor structure are planned.

- Lubricate the O-ring and insert in the top groove of the cover (1).
- Place the cover in the top section: First slide the cover into the groove in the top section (2) then fold it shut (3).



### Applying a floor covering, e.g. floor tiles:

- Apply the substrate (e.g. plaster, screed, tile adhesive). Observe the manufacturer's instructions.
- Lay the tiles.
- Insert the top section using permanently elastic sealant, e.g. silicone.



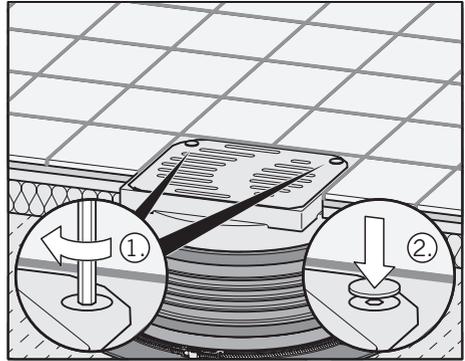
**NOTICE** Emergency flap must be open so that water can flow through.

- Check the emergency flap  Section 4.2 "Activating the emergency flap" (does not apply for Triplex K, K-0).

# Triplex-K/Quatrix-K backflow stops

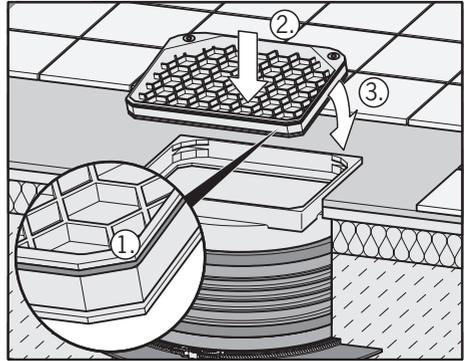
## Installation

- Remove protective caps from locking screws, e.g. with a slotted screwdriver.
- Using an allen key (size 10 mm), turn both locking screws by about  $\frac{1}{4}$  towards  until they stop (1).
- Replace the protective caps on the locking screws (2).

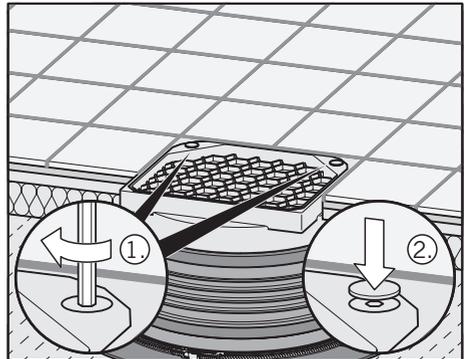


### If using the insert lower side (with tile flooring):

- Remove both protective caps from the locking screws (top of cover). The protective caps are needed for the lower side.
- Lubricate the O-ring and place in the upper groove (for tiling the lower side is facing upwards) of the cover (1).
- Place the cover in the top section: First slide the cover into the groove in the top section (2) then fold it shut (3).

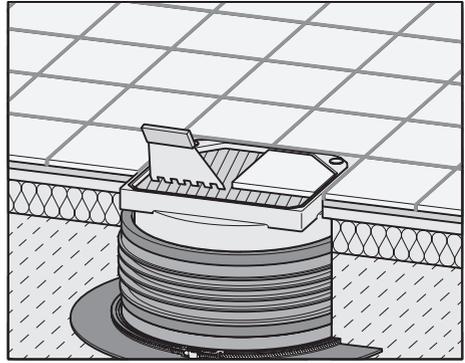


- Using an allen key (size 10 mm), turn both locking screws by about  $\frac{1}{4}$  towards  until they stop (1).
- Replace both protective caps on the locking screws (2).



## Triplex-K/Quatrix-K backflow stops Installation

- Clean the cover. The insert plate must be free of grease and dry.
- Spread tile adhesive (for plastic) onto the base of the insert plate (up to 15 mm in height).
- Lay tiles (max. height 10 mm) into the lid and grout.



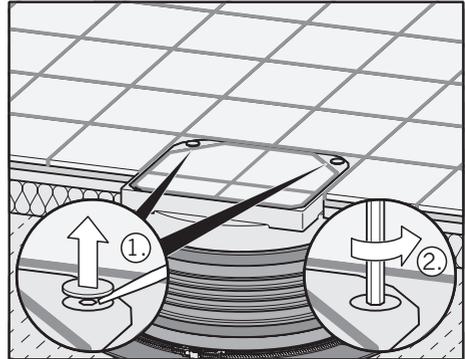
## 4 Post-installation inspections

Following installation, the emergency flap and seal integrity must be tested (does not apply for Triplex-K cleaning pipe).

### 4.1 Opening and closing the shaft system

**Opening the shaft system:**

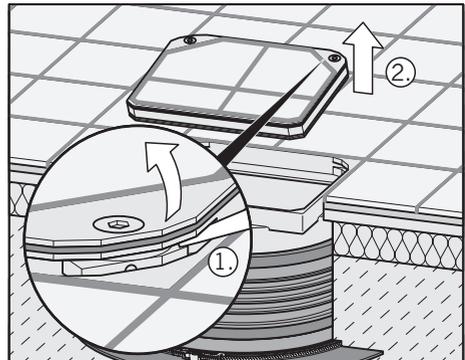
- Remove protective caps from locking screws, e.g. with a slotted screwdriver (1).
- Using an allen key (size 10 mm), turn both locking screws by about ¼ towards  until they stop (2).



- Lift up the cover (on the side with the locking screws).

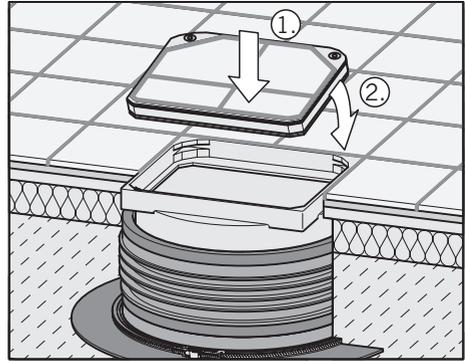
**If the lifting plate is too stiff:**

- Wedge a slotted screwdriver (1) under one corner beneath the O-ring (on the side with the locking screws).
- Lift up the cover and remove (2).

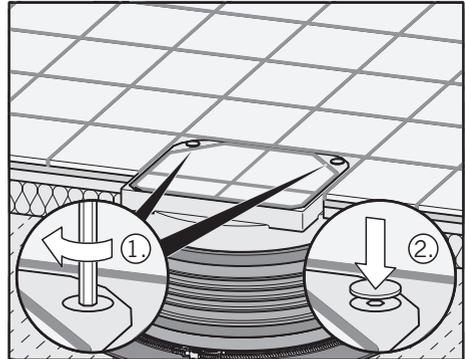


### Closing the shaft system:

- Remove the O-ring and lubricate.
- Re-position in the upper groove on the cover.
- Place the cover in the top section: First slide the cover into the groove in the top section (1) then fold it shut (2).



- Using an allen key (size 10 mm), turn both locking screws by about  $\frac{1}{4}$  towards  until they stop (1).
- Replace the protective caps on the locking screws (2).



## 4.2 Activating the emergency flap

**NOTICE** The emergency flap (does not apply for Triplex K, K-0) must be open for water to drain. Close the emergency flap if water backflows, e.g. in extremely heavy rain.

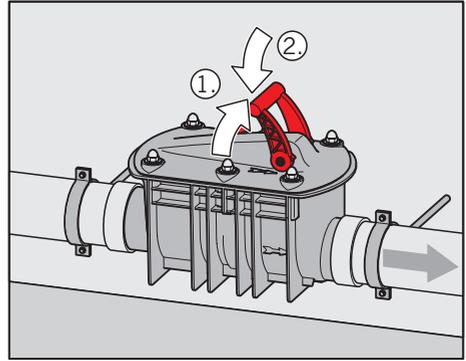
If the emergency flap cannot be activated correctly and easily,  "Instructions for use".

### Closing the emergency flap:

- Push the red lever in flow direction until it locks (clicks audibly into place) (1).

### Opening the emergency flap:

- Push the red lever against the flow direction until it locks (2).



## 4.3 Triplex K-2: Tightness test

Properly qualified personnel must perform the tightness tests,

 Section 1.4 "Personnel qualification".

The test includes simulating a backflow using a test funnel (included in the scope of supply) to test the seal integrity and functional reliability of the automatic flaps.

The seal integrity of the backflow unit is deemed to be sufficient if less than 500 ml (0.5 l) of water is needed to top up the test funnel within 10 minutes.

If this is not the case, clean the backflow unit. Coarse deposits will often be the cause,

 "Instructions for use".

Repeat the test.

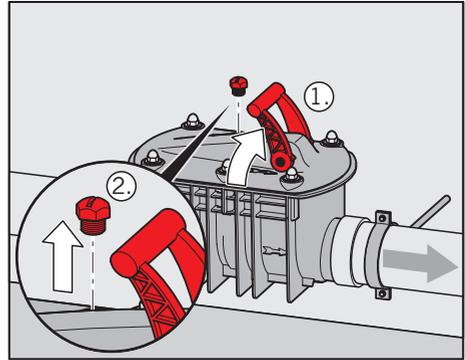
Replace the backflow unit if more than 500 ml (0.5 l) of water still has to be used to top up within 10 minutes.

# Triplex-K/Quatrix-K backflow stops

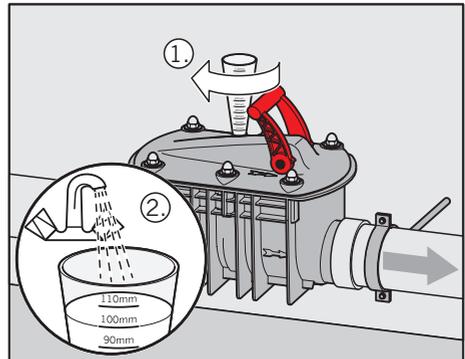
## Post-installation inspections

### Performing the test:

- To close the emergency flap, push the red lever in flow direction until it locks (clicks audibly into place) (1).
- Unscrew the red plug from its housing (2).

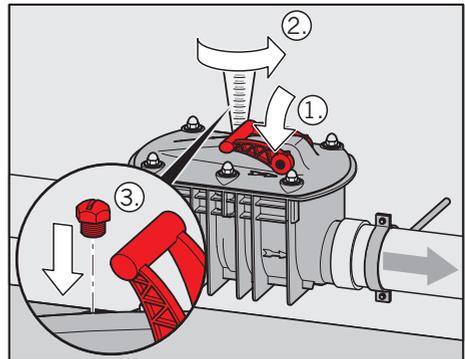


- Screw the test funnel into the thread (1).
- Fill the funnel with clean water up to the "100 mm" mark (2).
- Top up with water if the level drops.



### After testing:

- To open the emergency flap, push the red lever against the flow direction until it locks (1).
- Unscrew the test funnel from the thread (2).
- Screw the red plug into the housing (3).



## 4.4 Quatrix-K: Tightness test

Properly qualified technicians must perform the tightness tests,  Section 1.4 "Personnel qualification".

The test includes simulating a backflow using a test funnel (included in the scope of supply).

The seal integrity of the backflow unit is deemed to be sufficient if less than 500 ml (0.5 l) of water is needed to top up the test funnel within 10 minutes.

If this is not the case, clean the backflow unit. Coarse deposits will often be the cause,  "Quatrix-K: Instructions for use" (part of the electrics pack).

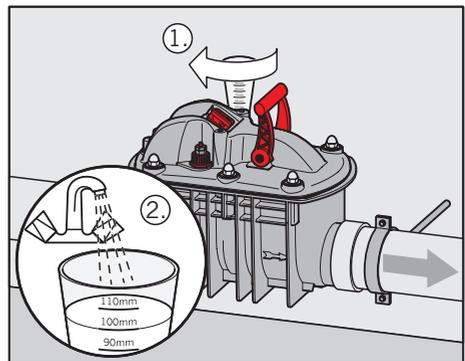
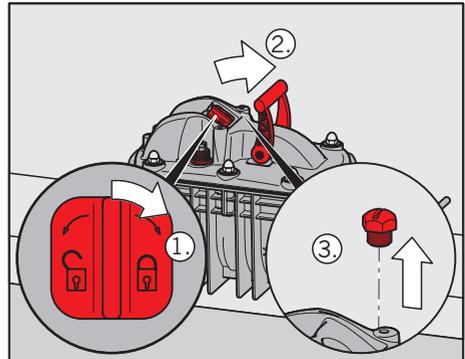
Repeat the test.

Replace the backflow unit if more than 500 ml (0.5 l) of water still has to be used to top up within 10 minutes.

### Performing the test:

The sealing plug must be attached to the nipple of the sensor cable connection on the housing lid (as-delivered condition).

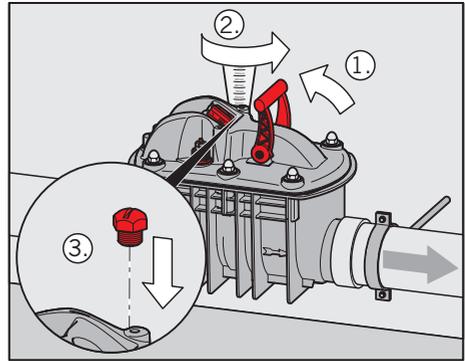
- To close the operating flap (backflow flap), place the red tommy nut on the spindle and turn it clockwise until it locks (1).
  - To close the emergency flap, push the red lever in flow direction until it locks (clicks audibly into place) (2).
  - Unscrew the red locking screw from its thread (3).
- 
- Screw the test funnel into the thread (1).
  - Fill the funnel with clean water up to the "100 mm" mark (2).
  - Top up with water if the level drops.



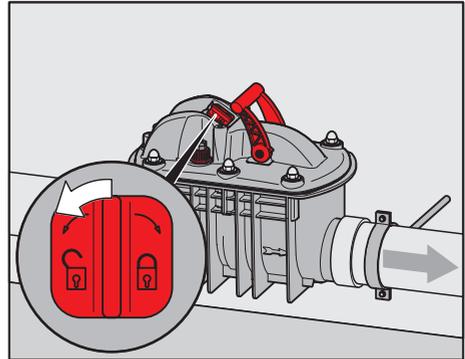
## Triplex-K/Quatrix-K backflow stops Post-installation inspections

### After testing:

- To open the emergency flap, push the red lever against the flow direction until it locks (1).
- Unscrew the test funnel from the thread (2).
- Screw the red plug into the housing (3).



- To open the operating flap, place the red tommy nut on the spindle and turn it anti-clockwise until it locks.



For further information, e.g. on installing the electric motor and control unit, servicing and troubleshooting,  "Quatrix-K: Instructions for use" (included in the electrics pack).

**Annex: Handover procedure and documentation**



**Quatrix-K**

Quatrix-K handover procedure and documentation,  "Quatrix-K: Instructions for use" (included in the electrics pack).

Commissioning and induction by the company performing the work in the presence of the client.

Date of commissioning: \_\_\_\_\_

Date of handover: \_\_\_\_\_

**Product identification**

Product	Art. no.  Section 2.2)	Serial no. (type plate)	Year built (type plate)	Nominal width DN/OD	Version
<input type="radio"/> Triplex K				<input type="radio"/> 110 <input type="radio"/> 125 <input type="radio"/> 160	<input type="radio"/> with shaft system <input type="radio"/> without shaft system
<input type="radio"/> Triplex K-0					
<input type="radio"/> Triplex K-1					
<input type="radio"/> Triplex K-2					

**Technical supervisors**

	Work performed by	Work accepted by	Client
Name:			
Contact:			
Tel.:			
Fax:			
Email:			
Address:			

## Triplex-K/Quatrix-K backflow stops

### Annex: Handover procedure and documentation

#### Check list (to be completed by the company performing the work)

Inspections	Remarks	OK	Not OK
Installation of the unit	Piping systems, connections, flow direction, supports	<input type="radio"/>	<input type="radio"/>
State of the unit	Visual inspection: exterior damage, soiling	<input type="radio"/>	<input type="radio"/>
Version with shaft system	Shaft system opens/closes without problems (no tension present)	<input type="radio"/>	<input type="radio"/>
Unit functions	Excl. Triplex K: Backflow flaps	<input type="radio"/>	<input type="radio"/>
	Excl. Triplex K, K-O: Emergency flap	<input type="radio"/>	<input type="radio"/>
Tightness test		<input type="radio"/>	<input type="radio"/>

#### Induction (to be given by the company performing the work)

Induction	Remarks	Yes	No
Induction	Functions, operation, operating tips, troubleshooting, obligatory servicing	<input type="radio"/>	<input type="radio"/>
Handover	Quatrix-K: Electrics pack	<input type="radio"/>	<input type="radio"/>
	Triplex: Instructions for use	<input type="radio"/>	<input type="radio"/>
	Installation instructions	<input type="radio"/>	<input type="radio"/>

#### Remarks:

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Signature (work performed by): \_\_\_\_\_

Signature (work accepted by): \_\_\_\_\_

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