

# Rotaplex Trio drain/overflow functional unit

## Instructions for Use



for water inlet through the overflow unit

**Model**  
6141.72

**Year built:**  
from 06/2015

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-notice](http://www.viega.com/legal-notice).

## 1.1 Target groups

The information in this instruction manual is directed at the following groups of people:

- Heating and sanitary professionals and trained personnel
- Operators
- Consumers

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.*

### **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 pertinent national laws, standards, regulations and guidelines, as well as other technical guidelines, have priority over German/European guidelines in this manual: The information is not binding for other countries and territories and should, as mentioned, be considered as support.

## 2 Product information

### 2.1 Intended use

#### 2.1.1 Areas of use



#### NOTICE!

#### Risk of damage due to unsuitable liquids.

To avoid damaging the drain, only introduce the following liquids:

- Liquids with a pH-value higher than 4
- typical household water with a maximum temperature of 95 °C

The Rotaplex Trio drain<sup>o</sup>/overflow is a combined inlet, drain and overflow with odour trap for bathtubs with a 90 mm drain hole. The inlet flows through the overflow opening.

The drain / overflow is suitable for extra long bathtubs.

Detailed information regarding all bathtub models and the corresponding Viega drains / overflows can be found in the catalogue or on the Internet.

An equipment set with rotatable rosette, valve cone and cover plate must be purchased separately.

### 2.2 Product description

#### 2.2.1 Overview

The following components are included in the scope of delivery of the Rotaplex Trio drain / overflow:

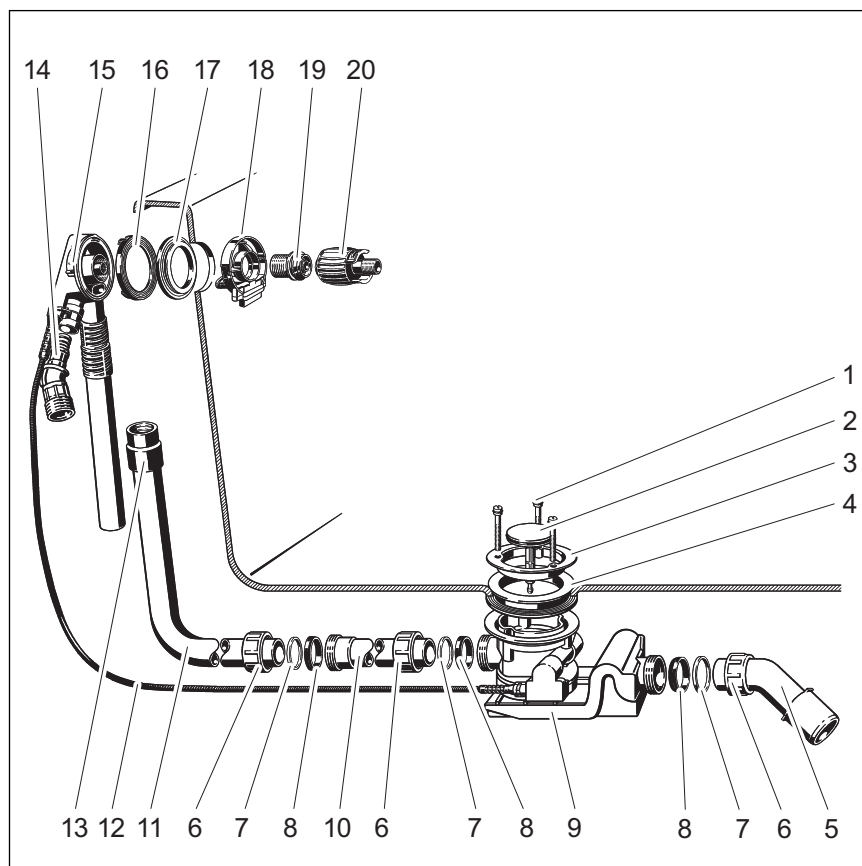


Fig. 1: Component overview

- 1 - fixing screws
- 2 - valve cone
- 3 - valve top
- 4 - double seal
- 5 - drain elbow
- 6 - union nut
- 7 - sliding ring
- 8 - seal
- 9 - odour trap
- 10 - pipe extension
- 11 - overflow pipe
- 12 - Bowden cable
- 13 - sleeve
- 14 - inlet adapter
- 15 - overflow unit
- 16 - profile seal
- 17 - additional seal (for steel bathtubs)
- 18 - supply flange
- 19 - fixing screw
- 20 - mounting aid

## 2.2.2 Technical data

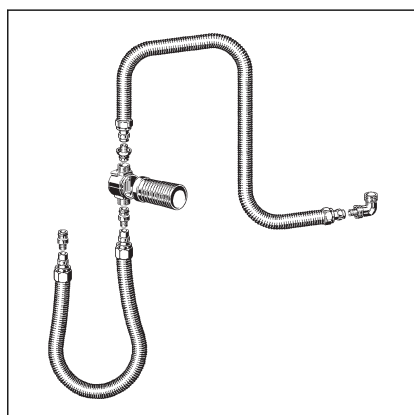
Drainage capacity (at an accumulation height of 300 mm)	1.25 l/s
Overflow capacity (at an accumulation height of 60 mm)	0.63 l/s
Inlet capacity (at 0.25 MPa (2.5 bar))	20 l/min
Diameter of bathtub drain hole	90 mm
DN (nominal diameter) drain support	40 / 50 mm
Length of Bowden cable	1070 mm
Length	150–680 mm
Height	180–480 mm
Dimensions and installation depth	☞ Chapter 3.1.2 „Installation dimensions“ on page 11
Water head seal	50 mm

## 2.3 Accessories



*The accessories shown here are not included in the scope of delivery. If required, it must be purchased separately.*

### Required accessories



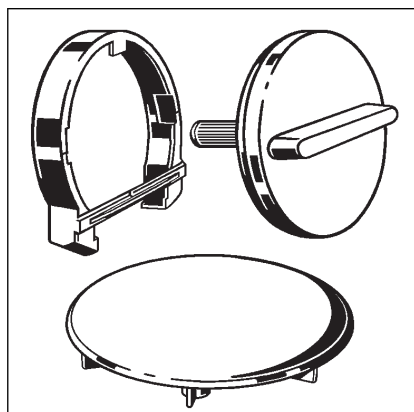
#### pipe interrupter

To ensure that no bath water flows back into the drinking water system, a pipe interrupter must be installed, e. g. the connection set with concealed pipe interrupter DN 20 in acc. DIN EN 1717, model 6161.86.

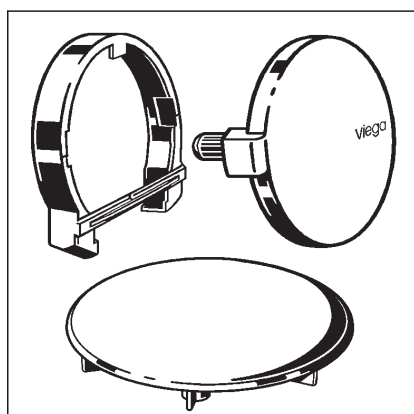
#### Equipment sets



As this product is a the functional unit (without rotatable rosette and valve cone), you require an equipment set to enable complete mounting. Equipment sets contain a rotatable rosette for the overflow and a valve cone for the drain of the functional unit. You can find a choice of different models in various designs in the catalogue.

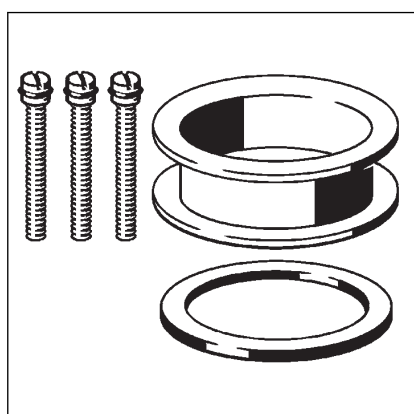


**Equipment set Rotaplex Trio Visign RT3: Model 6141.02**



**Equipment set Rotaplex Trio Visign RT5: Model 6141.01**

### Optional accessories



### Rotaplex extension set

It is possible to extend the odour trap below the bathtub in the case of bathtubs with a very thick floor. The extension set, model 6141.7, is available for such cases.

# 3 Handling

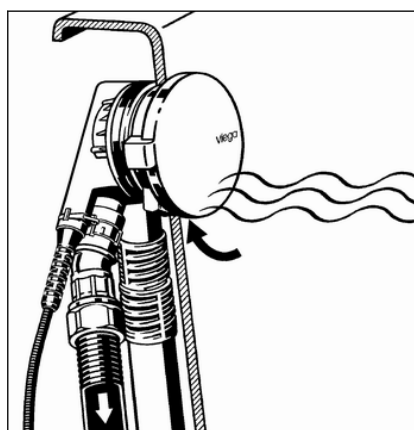
## 3.1 Assembly information

### 3.1.1 Mounting conditions

The following requirements exist for the mounting of the drain / overflow:

- The bathtub is installed.
- The drainage line is installed all the way to the bathtub.
- The underside of the bathtub is accessible.

#### Pipe interrupter



**Backflow situation:** If a negative pressure situation should occur when the bathtub is filled, there is a possibility that bath water may flow back into the drinking water system.

To ensure that no bath water flows back into the drinking water system, a pipe interrupter must be installed in the pipeline between the shut-off fitting and the bathtub inlet.

The following schematic diagram shows what this should look like:

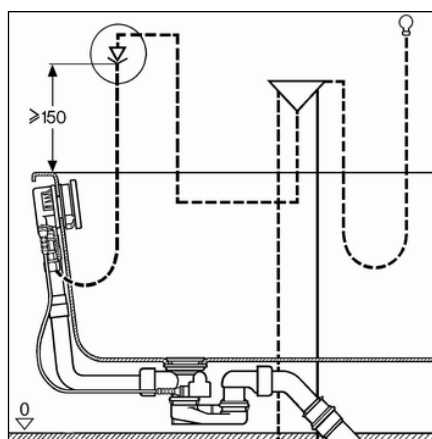


Fig. 2: Mounting scheme with pipe interrupter

It is important that the pipe interrupter is mounted at least 150 mm above the top edge of the bathtub.

Observe the local standards and regulations.

The pipe interrupter is not included in the scope of delivery and must be ordered separately. Observe the instructions for use of the pipe interrupter.

### 3.1.2 Installation dimensions

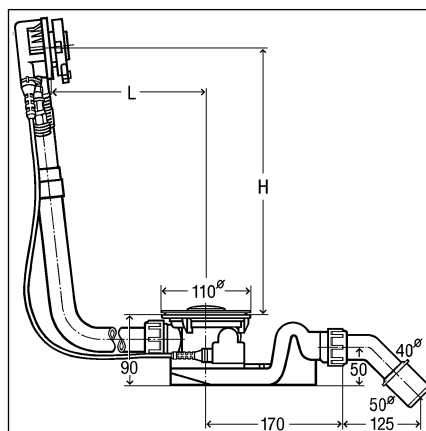


Fig. 3: Dimensional drawing

The following values are valid for L (length) and H (height):

L = 150–680

H = 180–480

### 3.1.3 Required tools and materials

#### Tool

The following tools are required for mounting:

- fine-toothed saw
- mounting aid (included in the scope of delivery)
- spanner (SW 26)

#### Material

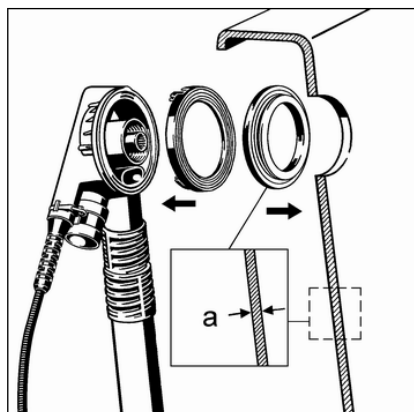
The following material must be purchased separately and must be available during mounting:

- pipe interrupter (e. g. the pipe interrupter set for connection of the inlet)
- Connection set for the connection of the inlet (e. g. the pipe interrupter set)
- equipment set

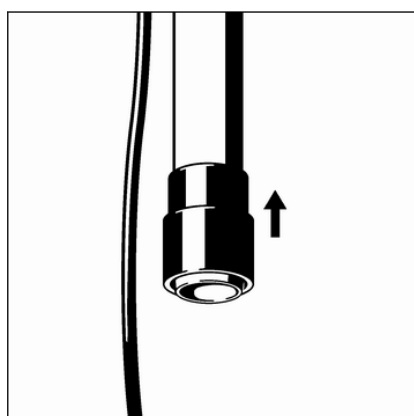
## 3.2 Assembly

### 3.2.1 Mounting overflow

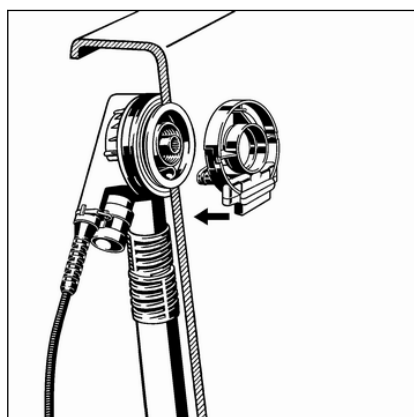
Proceed as follows to the mounting of the overflow:



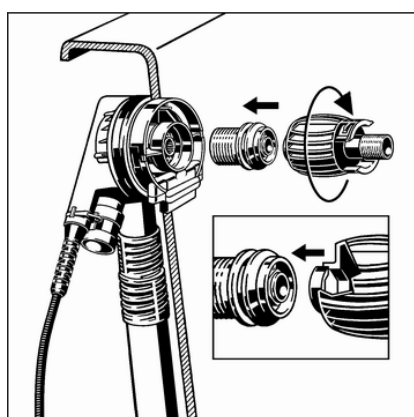
- Fit profile seal in the overflow unit.
- If the wall thickness  $a$  in steel bathtubs is less than 3 mm, insert addition seal for steel bathtubs between profile seal and bathtub.



- Push the rubber sleeve onto the overflow unit pipe until the lower edge is flush with the edge of the overflow pipe.



- Fit inlet flange into the overflow unit.

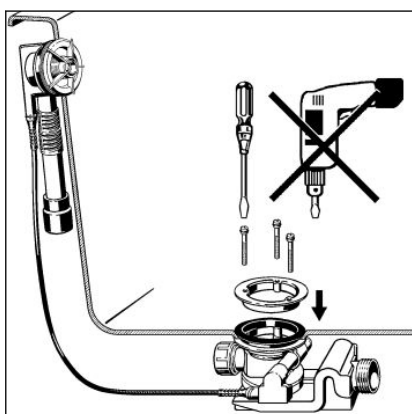
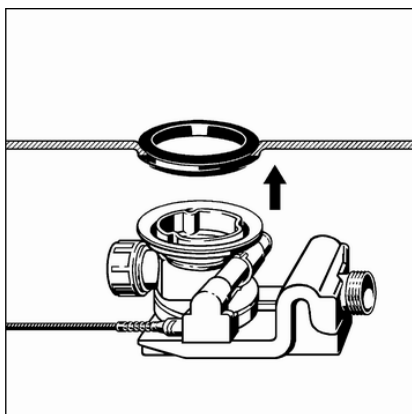


- Screw in fixing screw and tighten hand tight.  
On the hexagon of the mounting aid, there is a groove, which must be positioned on the lip of the fixing screw.

### 3.2.2 Mounting the drain

Proceed as follows to mount the drain:

- Place the double seal into the drain opening of the bathtub.
- Position the drain unit on the double seal from below in such a position that the upstand of the drain unit is placed in the recess of the double seal.



- Fit the valve top in the double seal.
- Place the fixing screws in the drain unit and pull hand tight.

**INFO! Cordless screwdrivers or similar tools can damage the product. Only tighten the screws by hand.**

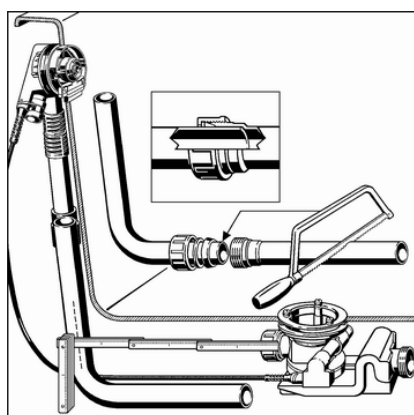
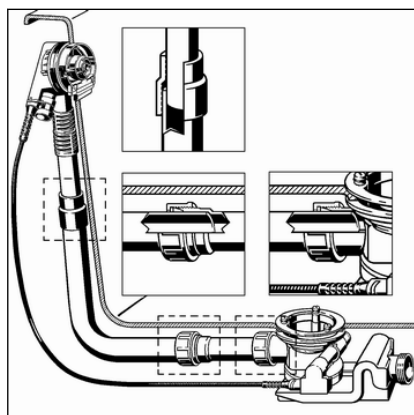
### 3.2.3 Connecting overflow and drain

After the overflow and the drain have been mounted, you must connect them both using the overflow pipe. Proceed as follows:

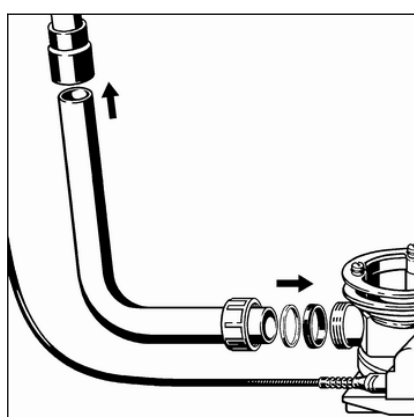
Requirements:

- The overflow is mounted in the overflow opening.
- The drain is securely mounted on the base of the bathtub.

**NOTICE! Connections where the pipes are not inserted far enough into each other become leaky. For this reason, maintain a minimum insertion depth of 15 mm for every connection.**



- Mount union nut, sliding ring and seal.
- Screw together overflow and extension pipes.  
Maintain an insertion depth of at least 15 mm!
- Hold the pipe of the overflow unit parallel to the overflow pipe and mark the positions where the drain and the overflow should be connected.  
Maintain an insertion depth of at least 15 mm!
- Cut the overflow pipe to the marked length and, if necessary, deburr.



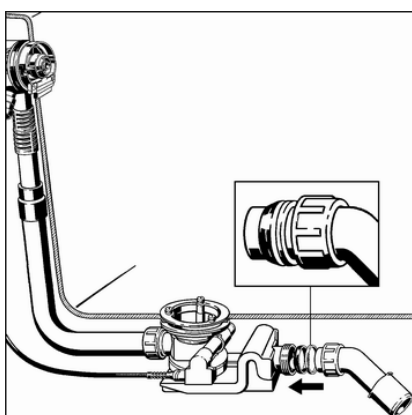
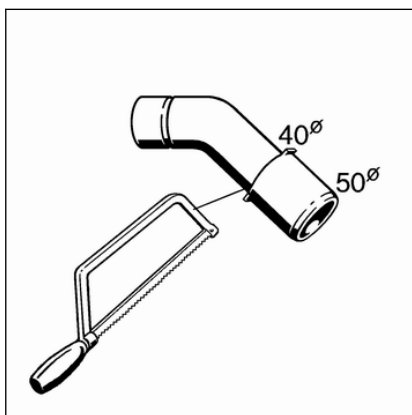
- Push the top end of the overflow pipe into the rubber sleeve.  
Maintain an insertion depth of at least 15 mm!
- Push the union nut, sliding ring and seal onto the bottom end of the drain elbow.
- Screw the union nut on the drain unit.

### 3.2.4 Connecting the wastewater system

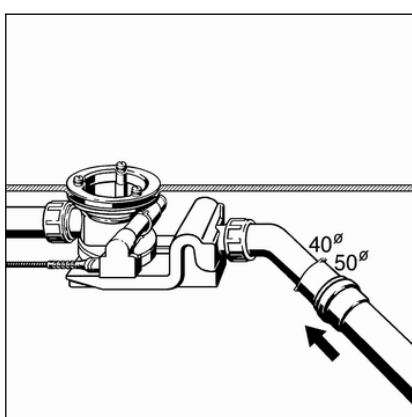
Proceed as follows to connect the drain/overflow to the wastewater system:

#### Requirements:

- The overflow and drain units are installed on the bathtub.
- The connection between overflow and drain has been made.
- If the wastewater pipe only has a diameter of 40 mm, cut off drain elbow.



- Push union nut, sliding ring and seal onto the drain elbow.
- Screw the union nut on the drain unit.



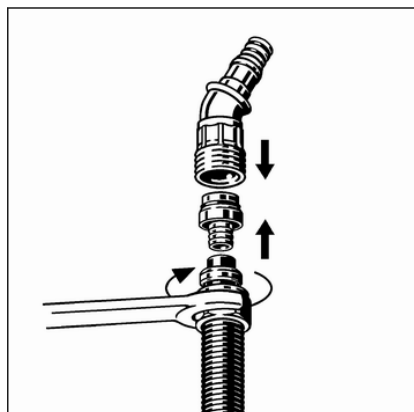
- Align the odour trap in such a way that the drain elbow can be connected to the wastewater pipe. Turn the drain for this purpose.
- Push wastewater pipe in the drain elbow.

### 3.2.5 Connecting the inlet

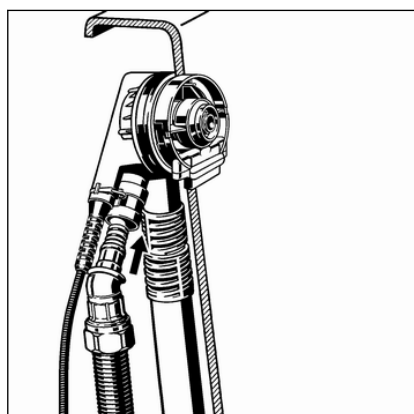
Proceed as follows to connect the water inlet to the overflow unit:

#### Requirements:

- A connection set (e. g. the pipe interrupter set) is available.
- A pipe interrupter is installed in the supply pipeline.
- Overflow and drain are mounted.



- Overflow and drain are connected.
- The connection to the waste water system has been made.
- Push union nut and clamping ring (parts of the connection set) onto the water-carrying pipe.
- Push the narrow end of the screw fitting (part of the connection set) into the pipe as far as it will go.
- Push the free end of the screw fitting into the inlet adapter.
- Screw in the pipe tight with the union nut onto the inlet adapter.



- Insert the inlet adapter into the overflow unit.

The inlet adapter must click into place in the overflow unit with a noticeable clicking sound.

### 3.2.6 Mounting equipment set

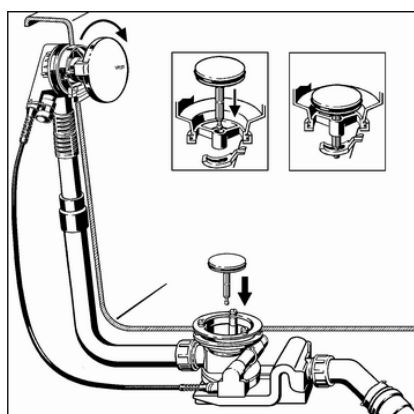


*The equipment set is not included in the scope of delivery and must be purchased separately.*

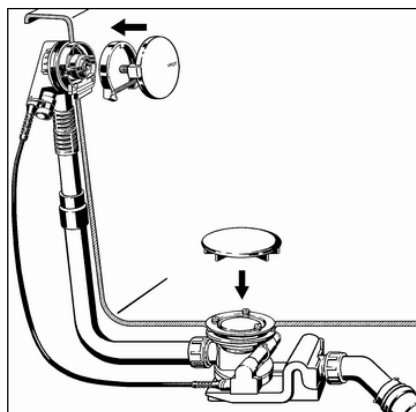
To avoid damage to the rosette and valve cone, only mount the equipment set after finishing all other work on the building site. Proceed as follows:

- Align and install rotatable rosette into the overflow unit.
- Turn rotatable rosette to the right (open position) and hold.
- Fit valve cone.

The pin on the underside of the valve cone must be led through the middle hole of the valve top into the recess in the drain unit and be felt to click into place (see detailed illustration).







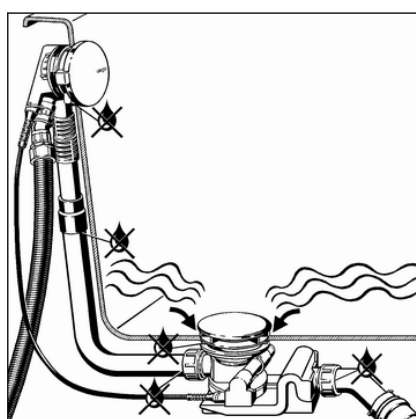
- Place the flange cover onto the inlet flange with the straight side facing downwards and affix.
- Align and fit rotatable rosette.
- Place the cover plate onto the valve top and affix.

The holes on the underside of the cover plate must be placed onto the heads of the screws.

### 3.2.7 Leakage test

The leakage test is only carried out as a visual inspection.

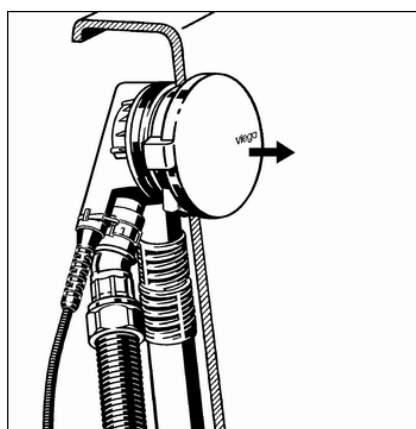
Check the points marked in the following drawing with particular care:



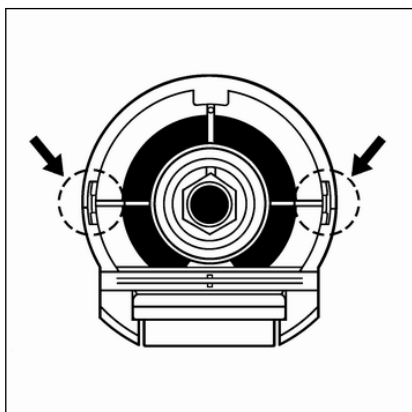
- Check drain fitting for visible leaks.

### 3.2.8 Demounting rotatable rosette

If the rotatable rosette on the overflow is to be removed, proceed as follows to prevent damaging the rosette and the flange cover:



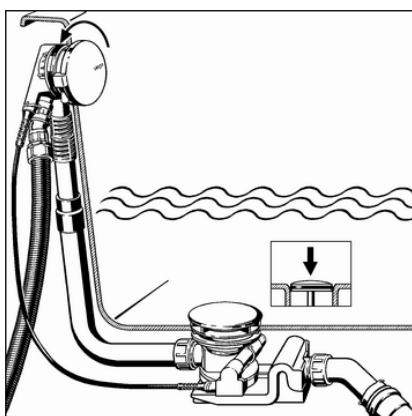
- Remove the rotatable rosette in the axial direction.



- Remove the flange cover at the marked points.
- Remove flange cover.

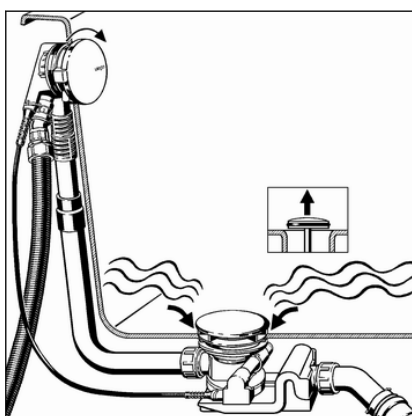
### 3.3 Control

The drain / overflow are controlled via rotatable rosette on the overflow. Proceed as follows to open or close the drain:



- Turn rotatable rosette to the left.
- ⇒ The drain closes itself.

**INFO! The valve cone sinks and prevents the water from draining away. The cover plate does not alter its position.**

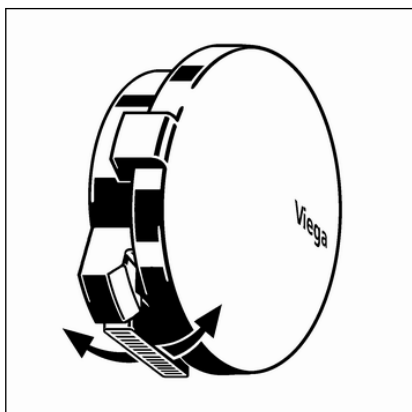


- Turn rotatable rosette to the right.
- ⇒ The drain opens itself.

**INFO! The valve cone lifts and the water can flow away. The cover plate does not alter its position.**

### Setting the water inlet direction

There is a regulator for the water jet on the underside of the rotatable rosette. Proceed as follows to adjust the water jet:



- Push the flow control backwards or forwards with your finger. The water flows closer or further away from the side of the bathtub depending on the direction set.

## 3.4 Maintenance



### NOTICE!

#### Risk of damage due to unsuitable cleaning agent.

The following cleaning agents can damage chrome-plated surfaces and therefore may not be used:

- scouring agent
- abrasive sponges
- lime, plaster or cement dissolver
- solvents or other acidic cleaning agents

Normal soap or a mild cleaning agent can be used for regular care and prevention of lime scale on the rotatable rosette and valve cone. Under no circumstances should scouring agent or scratching objects be used.

Strong stains, even around the drain unit and the siphon, can be removed using typical household cleaner. It should be noted that the cleaning agent should be rinsed off after the prescribed soaking time. There should be no residue on the components.

## 3.5 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.