

Multiplex Trio F drain/overflow

Instructions for Use



for water inlet through the drain unit

Model
6148.1

Year built:
from 08/2015

en_INT

viega

Table of contents

1	About these instructions for use	4
1.1	Target groups	4
1.2	Labelling of notes	4
1.3	About this translated version	5
2	Product information	6
2.1	Intended use	6
2.1.1	Areas of use	6
2.2	Product description	6
2.2.1	Overview	6
2.2.2	Technical data	8
3	Handling	9
3.1	Assembly information	9
3.1.1	Mounting conditions	9
3.1.2	Installation dimensions	11
3.1.3	Required tools and materials	11
3.2	Assembly	12
3.2.1	Connect and mount pipe interrupter	12
3.2.2	Mounting overflow	14
3.2.3	Mounting the drain	15
3.2.4	Connecting overflow and drain	16
3.2.5	Connecting the wastewater system	17
3.2.6	Connecting the inlet	18
3.2.7	Connecting the electronic mixing fitting	19
3.2.8	Mounting equipment set	20
3.2.9	Leakage test	20
3.3	Control	21
3.4	Simple maintenance and cleaning pipe	21
3.4.1	Maintenance	21
3.4.2	Cleaning pipe interrupter	21
3.4.3	Cleaning the drain	23
3.5	Disposal	25

1 About these instructions for use

Trade mark rights exist for this document, further information can be found at www.viega.com/legal-notices.

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 wastewater with temperatures up to 95 °C

The Multiplex Trio F drain/overflow is suitable for bathtubs with a 52 mm drain hole. The inlet flows particularly quietly through the overflow opening.

The inlet, drain/overflow with motor-powered valve cone trap is exclusively suitable for use with one of the three electronic mixer units Multiplex Trio E (model 6146), Multiplex Trio E2 (model 6146.2) or Multiplex Trio E3 (model 6146.215). The drain/overflow fulfils the requirements of DIN EN 274. Observe the instructions in the instructions for use of the electronic mixer unit connected.

The inlet, drain and overflow can be used in bathtubs with a connection in the middle.

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

The motor is maintenance-free and must not be removed.



2.2 Product description

2.2.1 Overview

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

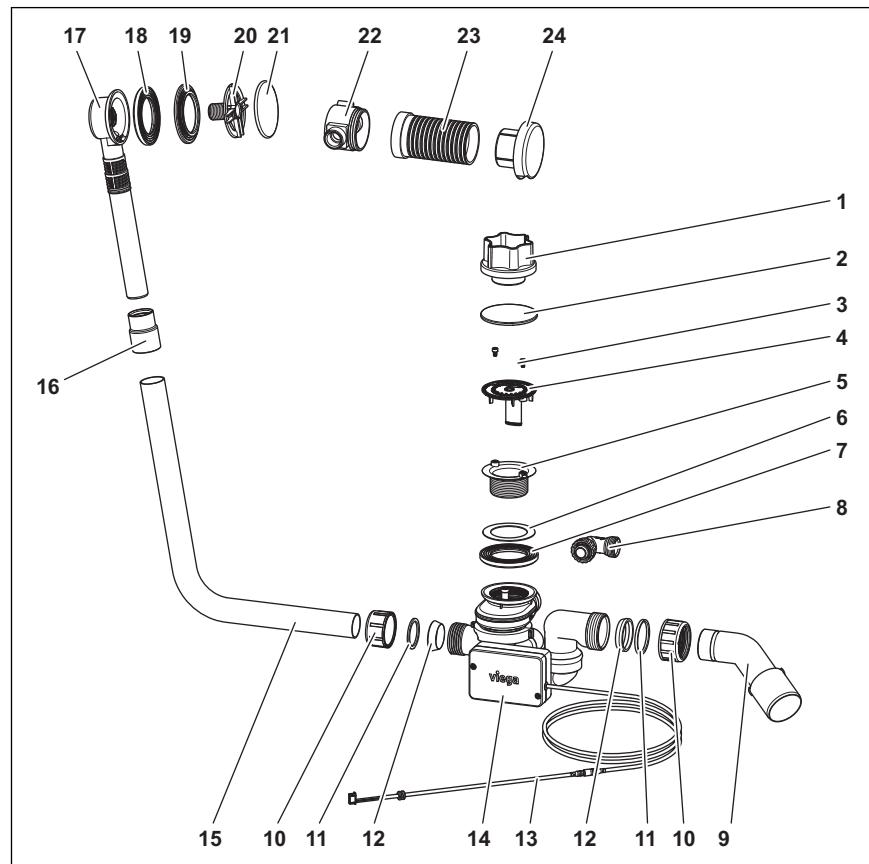


Fig. 1: Component overview

- 1 - mounting aid
- 2 - cover plate
- 3 - fixing screws
- 4 - inlet element
- 5 - valve top
- 6 - seal
- 7 - profile seal
- 8 - connection elbow
- 9 - drain elbow
- 10 - union nut
- 11 - sliding ring
- 12 - seal
- 13 - connection cable 3 m
- 14 - drain unit with motor
- 15 - overflow pipe
- 16 - sleeve
- 17 - overflow unit
- 18 - profile seal
- 19 - additional seal for steel bathtubs
- 20 - supply flange
- 21 - overflow rosette
- 22 - pipe interrupter casing
- 23 - top of the pipe interrupter
- 24 - pipe interrupter rosette

2.2.2 Technical data

Drainage capacity (at an accumulation height of 300 mm)	0.87 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	52 mm
DN (nominal diameter) drain socket	40 / 50 mm
Length	130–370 mm
Height	180–430 mm
Dimensions and installation depth	 <i>Chapter 3.1.2 „Installation dimensions“ on page 11</i>
Water seal level	50 mm

3 Handling

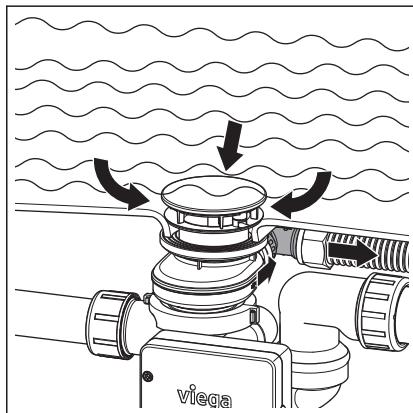
3.1 Assembly information

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:

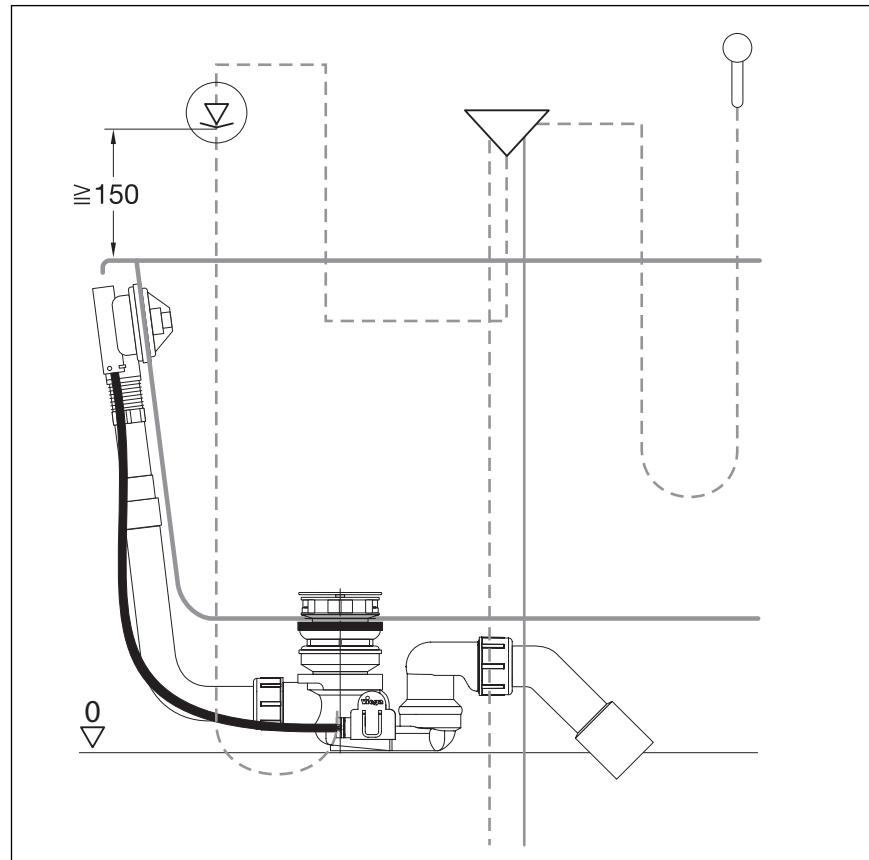


Fig. 2: Mounting scheme with pipe interrupter

It is important that the pipe interrupter is mounted vertically, in the direction of flow and at least 150 mm above the top edge of the bathtub.

Observe the local standards and regulations.

3.1.2 Installation dimensions

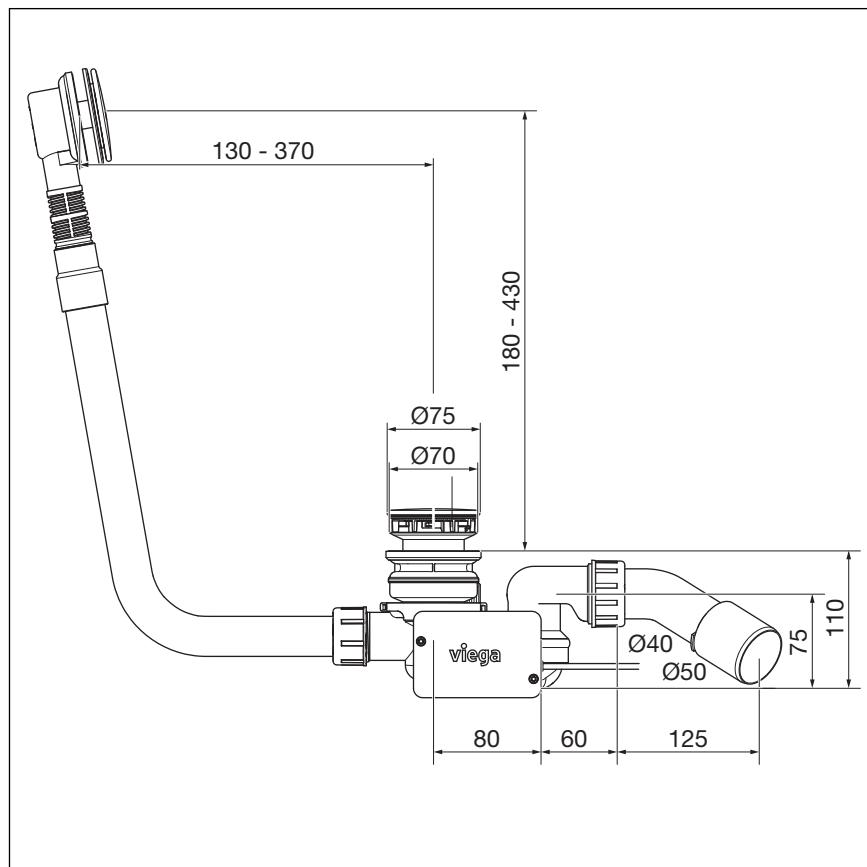


Fig. 3: Dimensional drawing

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)
- Allen key (SW 3) (included in scope of delivery)

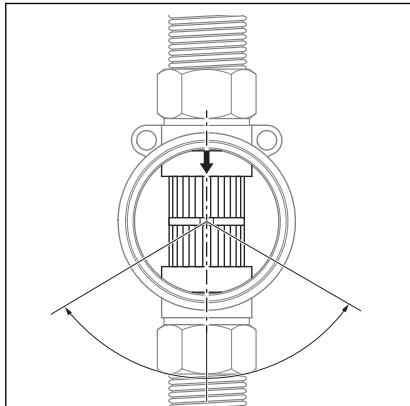
Material

The material (pipes and connecting material) for the connection of the water inlet must be purchased separately and must be available during mounting.

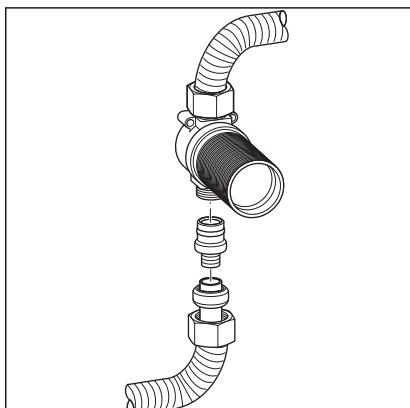
3.2 Assembly

3.2.1 Connect and mount pipe interrupter

The pipe interrupter must be mounted according to the plan in [Chapter 3.1.1 „Mounting conditions“ on page 9](#) for the subsequent installation of the bathtub before the work on the walls is finished. Proceed as follows:

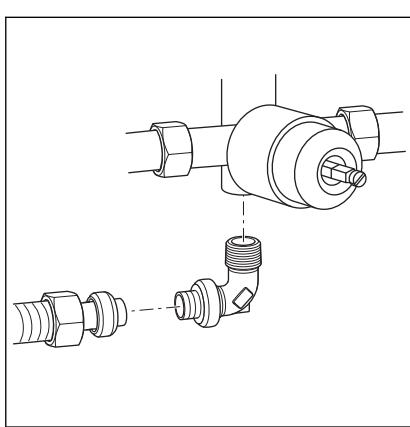


- The direction of flow runs from diagonal to vertical downwards.
- The line does not continue to rise downstream from the pipe interrupter.
- All of the accessories (pipes, connecting pieces $\frac{3}{4}$ inch) required for complete assembly are included.
- During assembly, the protective plug is to be found on the top stem.



INFO! We show the mounting here with the Viega plug connection. Mounting can also be carried out with other connecting materials. If necessary, observe the manufacturer's instructions.

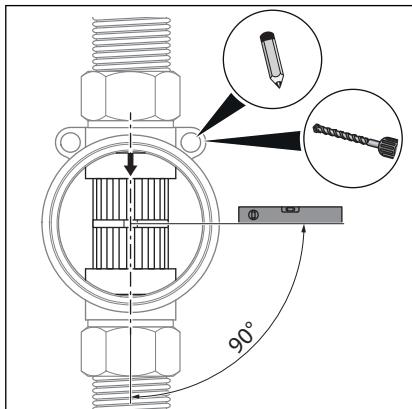
- ▶ Push the union nut and clamping ring onto the pipe.
- ▶ Push Viega plug-in seat as far as it will go into the pipe. Euro cone connections are not compatible.
- ▶ Push the free end of the plug-in seat into the connection of the pipe interrupter.
- ▶ Using the union nut, screw the pipe tightly onto the pipe interrupter.
- ▶ Repeat the procedure with the second pipe.



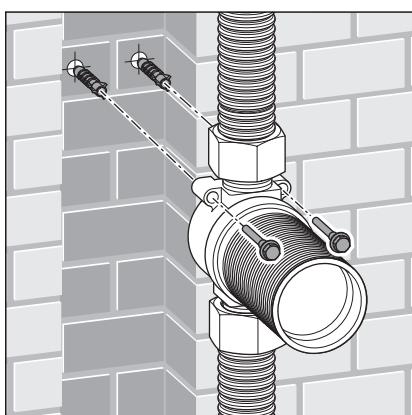
INFO! We show the mounting here with the Viega plug connection. Mounting can also be carried out with other connecting materials. If necessary, observe the manufacturer's instructions.

- ▶ Seal adapter elbow and twist into the connection of the mixer tap.
- ▶ Push the union nut and clamping ring onto the pipe.
- ▶ Screw in the pipe tight with the union nut onto the adapter elbow.

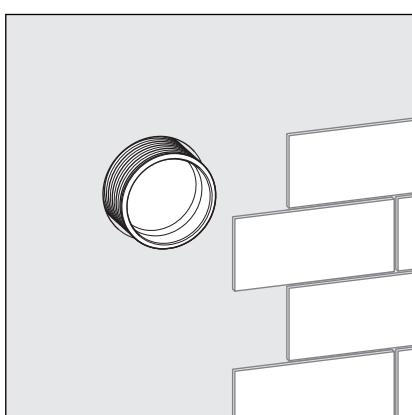
- ▶ Lay the free pipe end up to the connection place of the bathtub drain/overflow.



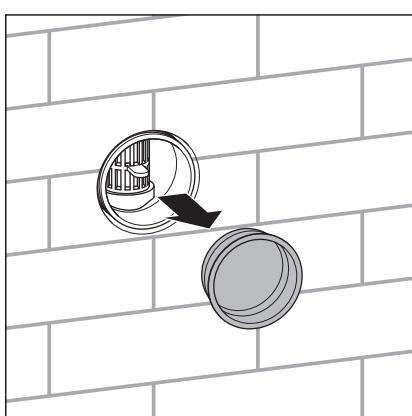
- Align pipe interrupter.
- Mark drill holes.
- Drill holes.



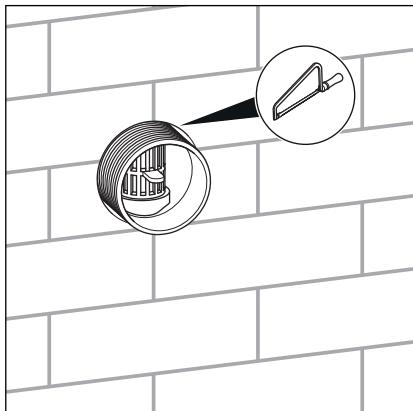
- Screw on pipe interrupter with two crossed slot screws (size 4.5 or 5).
- Encase the pipe interrupter and connection line in mortar.



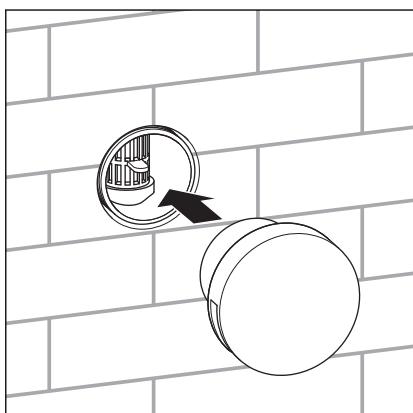
- Tile the wall.



- Remove protective plug.



- Shorten shaft top with a fine-toothed saw.
The shaft top must be flush with the height of the tiles.
- Clean shaft top when contaminated.

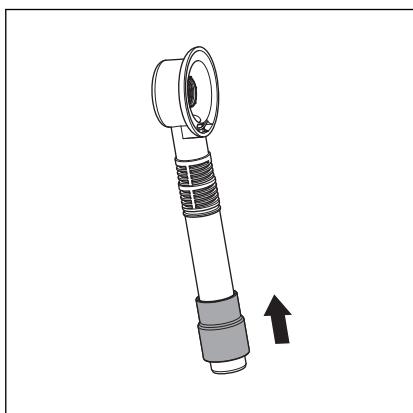


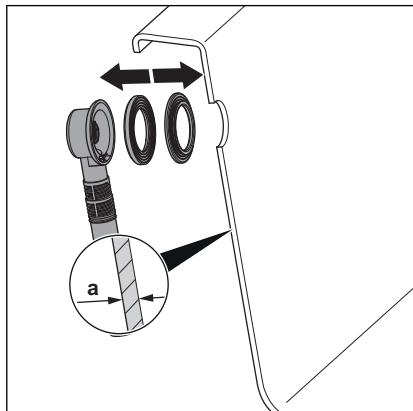
- Insert the rosette into the shaft top.

3.2.2 Mounting overflow

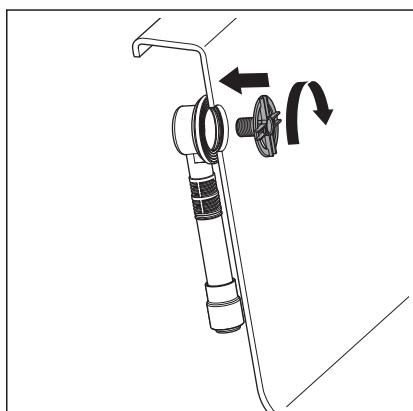
Proceed as follows to the mounting of the overflow:

- Push the rubber sleeve onto the pipe of the overflow unit.
The lower edge must be flush with the edge of the overflow pipe.





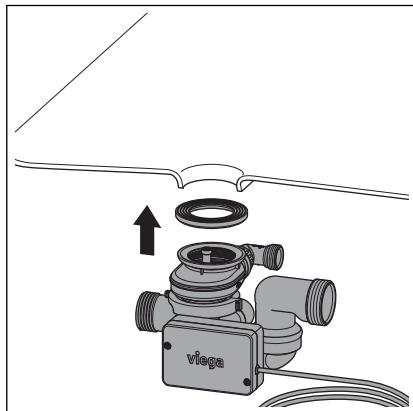
- Fit profile seal in the overflow unit.
- If the wall thickness a (in the case of steel bathtubs) is less than 3 mm, insert addition seal between profile seal and bathtub.



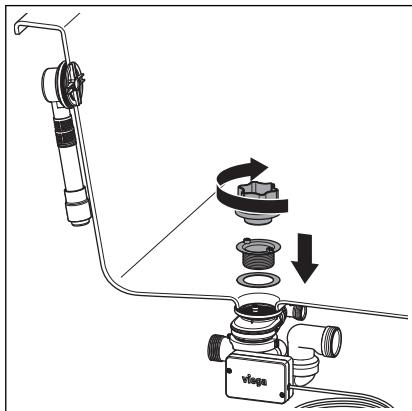
- Hold the overflow unit on the overflow opening of the bathtub from the outside.
- Screw the fixing flange into the overflow unit by hand.
Pliers or other tools may damage the fixing flange. Only turn the fixing flange by hand.

3.2.3 Mounting the drain

Proceed as follows to mount the drain:



- Place the profile seal in the recess of the drain unit.
- Mount the drain unit with profile seal on the drain opening of the bathtub from below.



► Apply lubricant to the inside of the seal and place onto the underside of the valve top.

► Install the valve top into the drain unit and screw together with the mounting aid.

The mounting aid must be placed on the screw recesses with the holes on the underside.

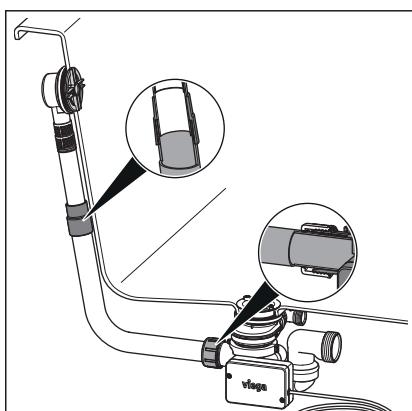
3.2.4 Connecting overflow and drain

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.

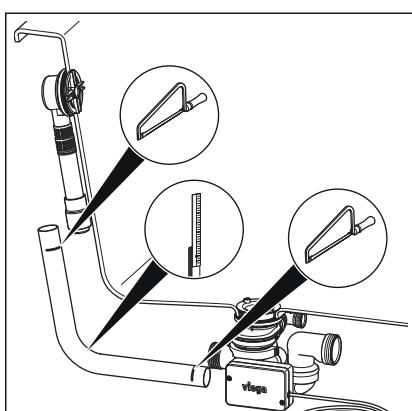
NOTICE! Connections where the pipes are not inserted far enough into each other become leaky. For this reason, maintain a minimum insertion depth of 15 mm for every connection.

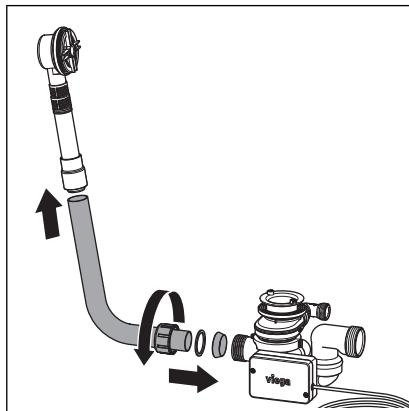


► Hold the pipe of the overflow unit parallel to the overflow pipe and mark the positions where the drain and the overflow should be connected.

Maintain an insertion depth of at least 15 mm!

► Cut the overflow pipe to the marked length and, if necessary, deburr.





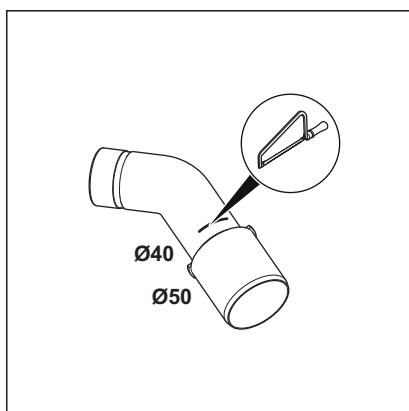
- Push the top end of the overflow pipe into the rubber sleeve.
Maintain an insertion depth of at least 15 mm!
- Push the union nut, sliding ring and seal onto the bottom end of the drain elbow.
- Screw the union nut on the drain unit.

3.2.5 Connecting the wastewater system

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

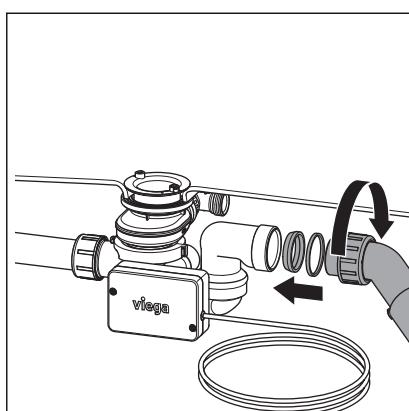
Requirements:

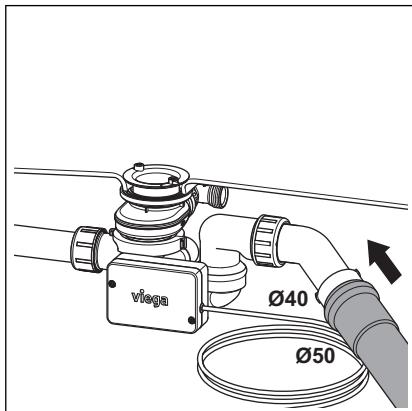
- The overflow and drain units are installed on the bathtub.
- The connection between overflow and drain has been made.
- If the wastewater pipe only has a diameter of 40 mm, cut off drain elbow.



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

Maintain an insertion depth of at least 15 mm!





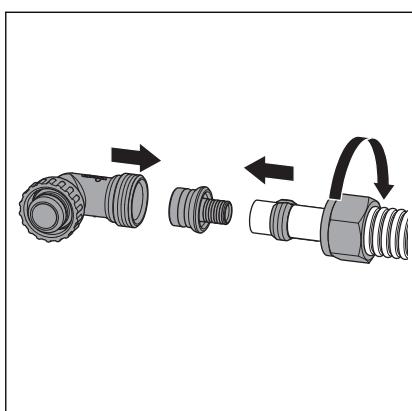
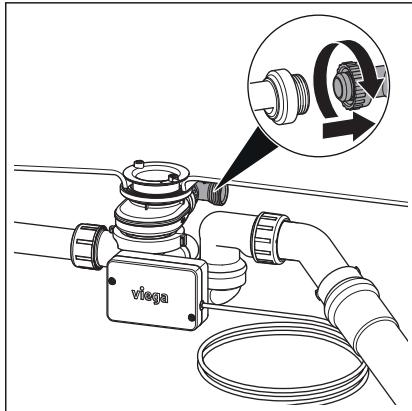
- Turn the drain at the joint until the required position has been reached.
- Push wastewater pipe in the drain elbow.

3.2.6 Connecting the inlet

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

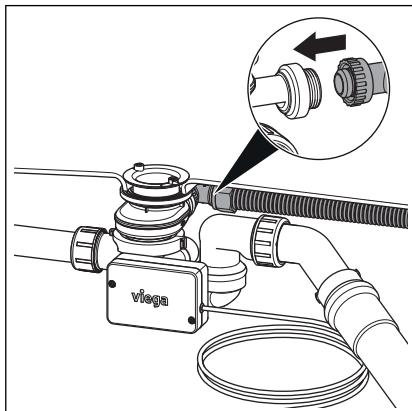
Requirements:

- 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 wastewater system has been made.
- Remove the union nut of the connection elbow from the drain unit and remove connection elbow.



INFO! We show the mounting here with the Viega plug connection. Mounting can also be carried out with other connecting materials. If necessary, observe the manufacturer's instructions.

- 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 connection elbow.
- Screw in the pipe tight with the union nut onto the connection elbow.



► Place the connection elbow onto the connection of the drain unit and tighten the union nut by hand.

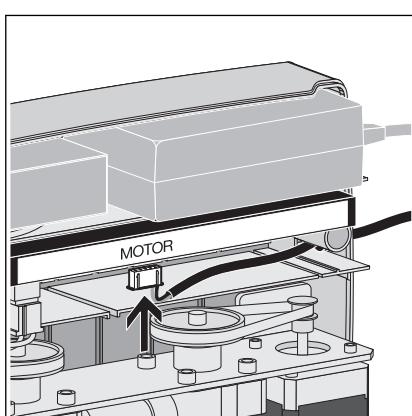
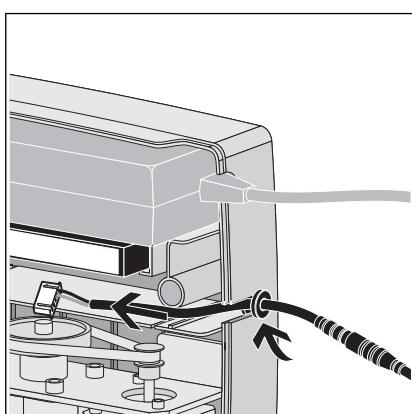
3.2.7 Connecting the electronic mixing fitting

The cable of the motor must be connected to the mixer unit to be able to control the motor of the overflow / drain via the control element of the mixer fitting. The power to the motor is also supplied via the cable to the mixer unit. No special power supply is required.

Requirements:

- The mixer unit has been mounted.
- The motor-powered drain / overflow has been mounted.
- The mixer unit is accessible and the lid had been removed.
- The motor of the drain / overflow is reachable from the place of installation of the mixer unit using a 2 m cable (with extension 5 m).

► Lead cable with cable lead-in into the recess in the right-hand side of the casing of the mixer unit.



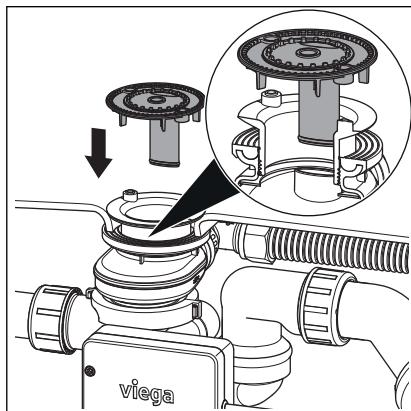
INFO! The connection of the drain / overflow must take place before applying mains voltage to the mixer unit so that the drain can be detected.

► Connect plug of the cable with the socket of the control unit marked "Motor".

The plug has a groove left and right on one long side, this should face forward when plugging in.

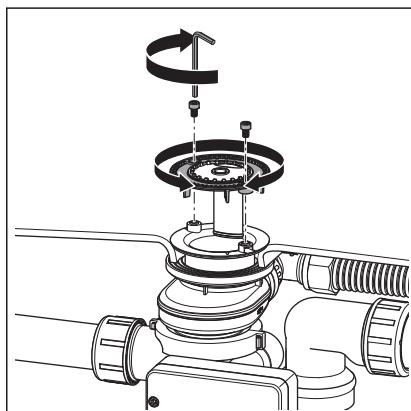
3.2.8 Mounting equipment set

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:

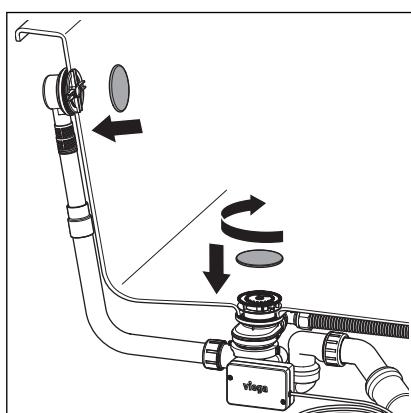


- Fit the inlet element into the drain unit.

The shaft on the side of the inlet element must be inserted into the recess in the drain unit.



- Turn the external ring of the inlet element in such a way that the screw heads of the screw-in valve is reachable.
- Fit Allen screws and tighten only gently by hand.

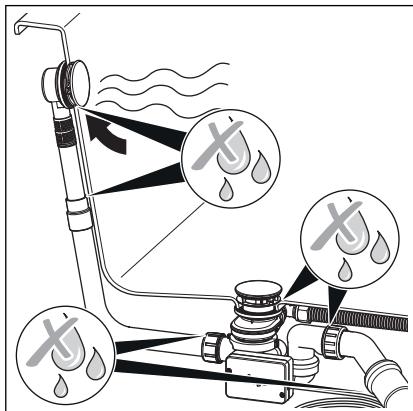


- Screw cover plate onto the drain by hand.
- Align and push in overflow rosette.

3.2.9 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/overflow fitting for visible leaks.

3.3 Control

The valve cone can only be opened and closed electronically. Control takes place via the connected electronic mixer unit. You will find control instructions in the mixer unit instruction manual.

3.4 Simple maintenance and cleaning pipe

3.4.1 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.

3.4.2 Cleaning pipe interrupter

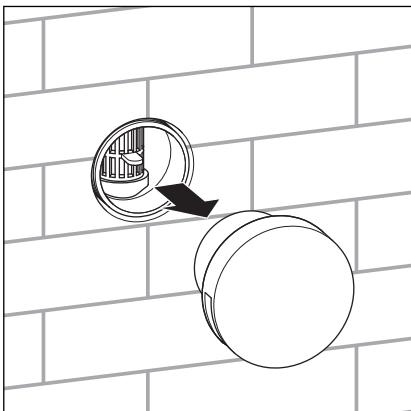
The pipe interrupter must be cleaned regularly as limescale on the membrane can be detrimental to its functionality. The cleaning interval depends from the local water and should be decided during mounting.



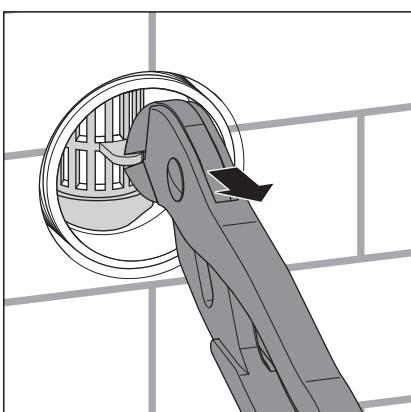
In the case of extensive contamination, the insert has to be replaced to ensure the functionality of the pipe interrupter.

Proceed as follows to clean or replace the insert with the membrane:

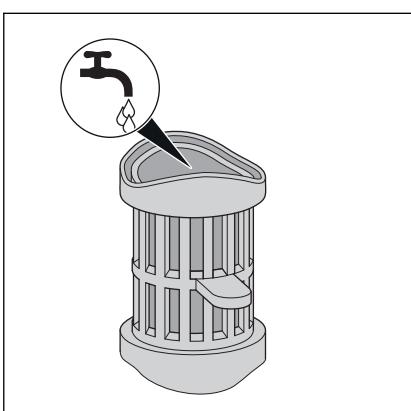
► Remove rosette.

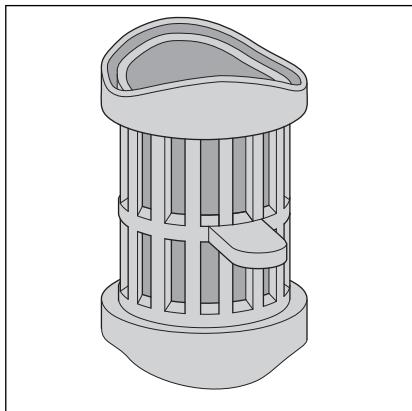


► Pull the insert out of the casing using multigrip pliers.

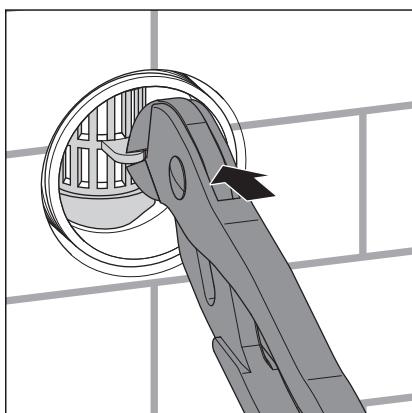


► If there is only a little limescale and contamination, rinse the insert carefully.

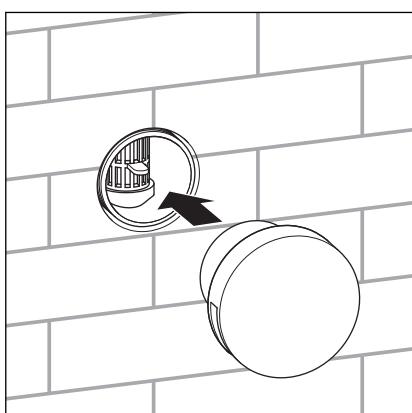




- If excessive limescale and contamination is found, use new insert (model 6161.82)



- Using multigrip pliers, insert the insert into the casing of the pipe interrupter vertically from the front.

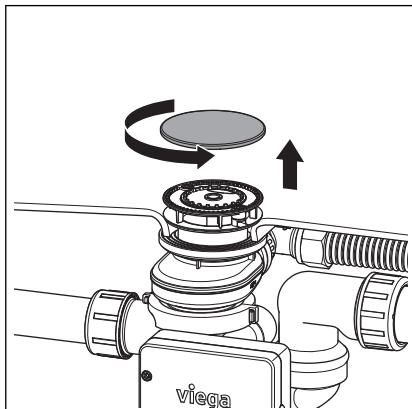


- Insert the rosette into the shaft top.

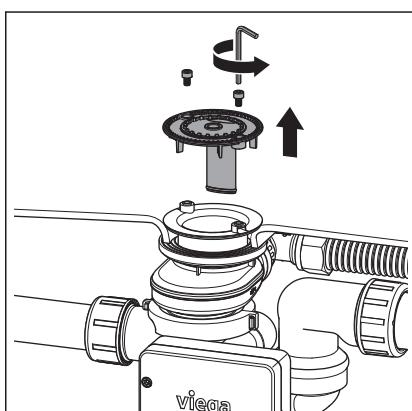
3.4.3 Cleaning the drain

The drain should be cleaned at regular intervals. The cleaning interval depends on the use of the tub installation.

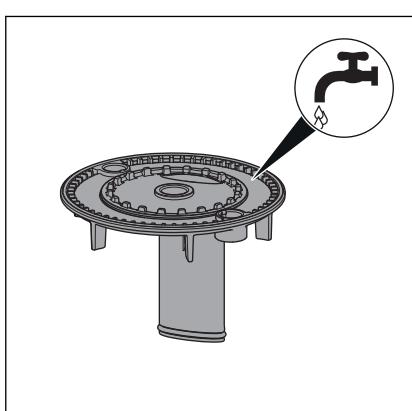
Proceed as follows to clean the drain:



► Unscrew cover plate by hand.

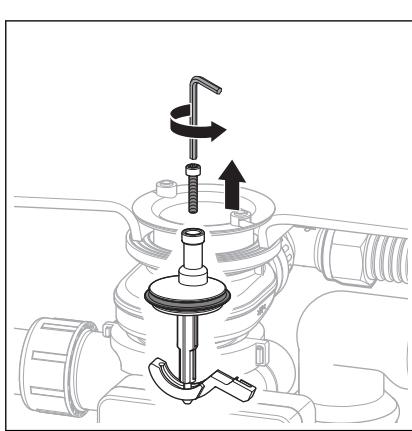


► Loosen the Allen screws of the inlet element with the Allen key (size 3).
► Remove inlet element.

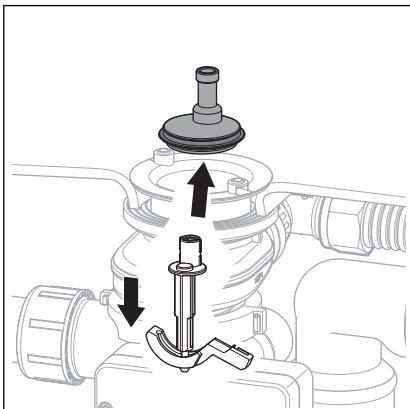


► Clean inlet element by holding it under running water.

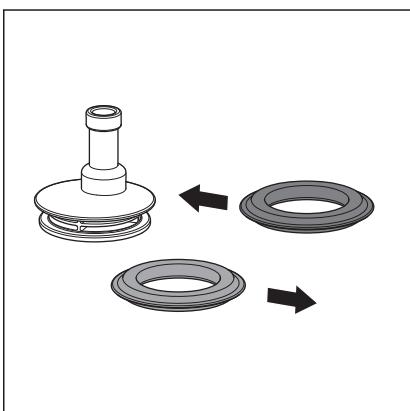
Do not use any sharp or pointed objects when cleaning as this could damage the material.



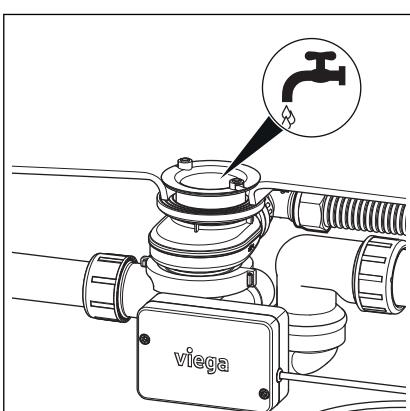
► Loosen the Allen screw of the valve cone with an Allen key (size 3).



- Close the valve cone using the electronic mixer unit.
- Remove valve cone.



- If the seal of the valve cone is damaged or has excessive limescale, remove the seal.
- Place a new seal in the recess in the valve cone.
Only use original replacement seals from Viega (model 6162-268), which are intended for the valve cone.



- If necessary, clean drain casing with running water and a mild cleaning agent.
INFO! Do not use any abrasive cleaner or pipe cleaner as these can damage the plastic of the drain casing.

i *To install, follow the same steps in reverse order.*

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.