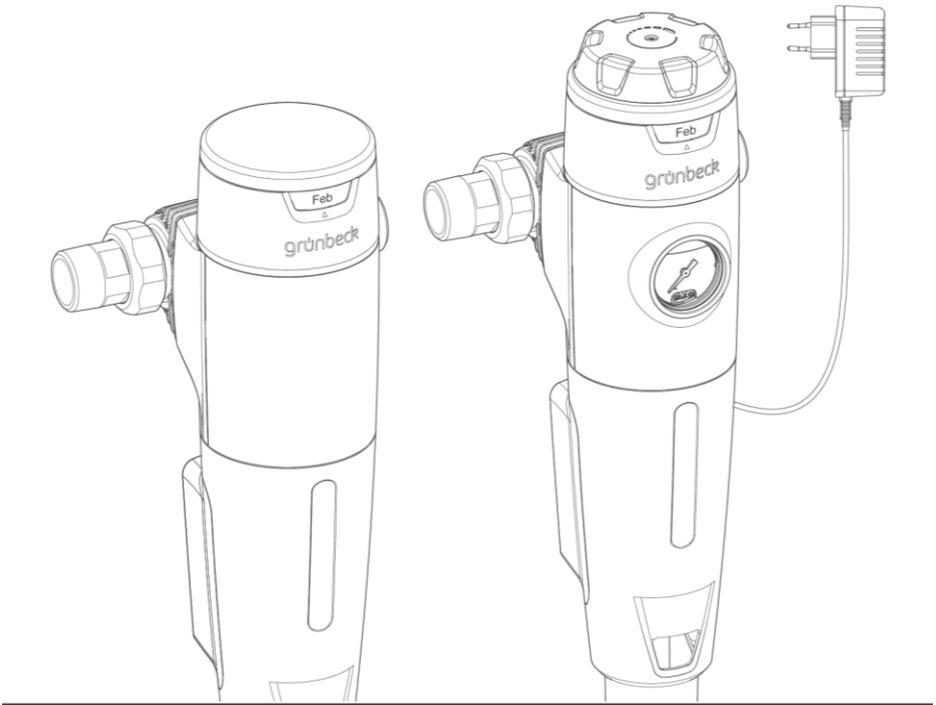


We understand water.



Automatic filter | pureliQ:A, pureliQ:AD

Operation manual

grünbeck

**General Contact**  
Germany

**International Sales**

 +49 9074 41-145

**Service**

 +49 9074 41-333  
service@gruenbeck.de

**Availability**

Monday to Thursday  
7:00 am - 6:00 pm

Friday  
7:00 am - 4:00 pm

We reserve the right to technical modifications.  
© by Grünbeck Wasseraufbereitung GmbH

**Original operation manual**  
Edition: June 2022  
Order no.: TD3-AA000\_en\_105



11.2 Disposal ..... 49

---

**12 Technical specifications..... 51**

12.1 pureliQ:A ..... 51

12.2 Pressure loss curves of pureliQ:A.. 53

12.3 pureliQ:AD ..... 54

---

**13 Operation log..... 56**

13.1 Start-up/Commissioning log ..... 56

13.2 Maintenance ..... 57

# 1 Introduction

This manual is intended for owners/operating companies, operators/users as well as qualified specialists and ensures the safe and efficient handling of the product. The manual is an integral part of the product.

- Carefully read this manual and the included manuals on the components before you operate your product.
- Obey all safety and handling instructions.
- Keep this manual and all other applicable documents, so that they are available when needed.

Illustrations in this manual are for basic understanding and can differ from the actual design.

## 1.1 Validity of the manual

This manual applies to the products below:

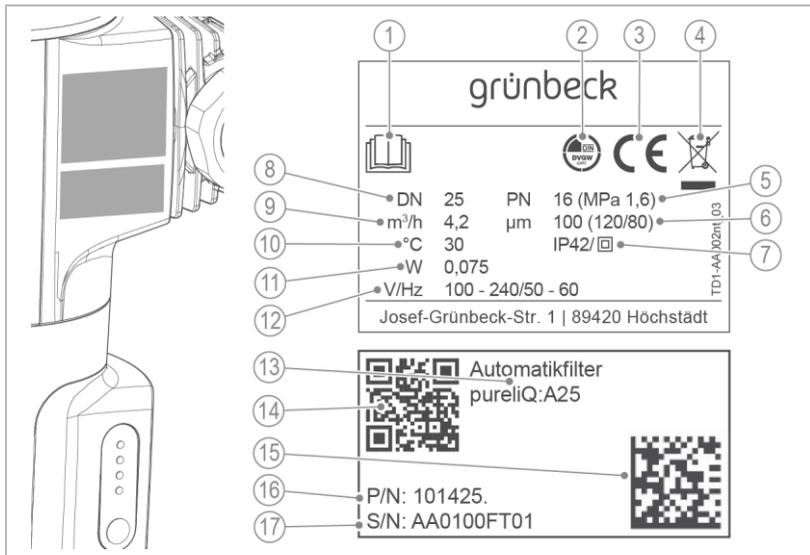
- Automatic filter pureliQ:A20/AD20 ( $\frac{3}{4}$ ", DN 20)
- Automatic filter pureliQ:A25/AD25 (1", DN 25)
- Automatic filter pureliQ:A32/AD32 (1 $\frac{1}{4}$ ", DN 32)

## 1.2 Product identification

You can identify your product based on the product designation and the order no. indicated on the type plate.

- ▶ Check whether the products indicated in chapter 1.1 correspond to your product.

The type plate is located on the side of the filter.



Designation	
1	Obey the operation manual
2	DVGW test mark
3	CE mark
4	Disposal information
5	Nominal pressure
6	Pore size
7	Protection/protection class
8	Nominal connection diameter
9	Flow rate

Designation	
10	Water temperature
11	Power input
12	Power supply
13	Product designation
14	QR code
15	Data matrix code
16	Order no.
17	Serial no.

## 1.3 Symbols used

Symbol	Meaning
	Danger and risk
	Important information or requirement
	Useful information or tip
	Written documentation required
	Reference to further documents
	Work that must be carried out by qualified specialists only
	Work that must be carried out by qualified electricians only
	Work that must be carried out by technical service personnel only

## 1.4 Depiction of warnings

This manual contains information and instructions that you must obey for your personal safety. The information and instructions are highlighted by a warning symbol and are structured as shown below:



**SIGNAL WORD** Type and source of hazard

- Possible consequences
- ▶ Preventive measures

The signal words below are defined subject to the degree of danger and might be used in the present document:

Warning symbol and signal word	Consequences if the information/ instructions are ignored	
 <b>DANGER</b>		Death or serious injuries
 <b>WARNING</b>	Personal injury	Possible death or serious injuries
 <b>CAUTION</b>		Possible moderate or minor injuries
<b>NOTE</b>	Damage to property	Possible damage to components, the product and/or its functions, or an object in its vicinity

## 1.5 Demands on personnel

During the individual life cycle phases of the product, different people carry out work on the product. This work requires different qualifications.

### 1.5.1 Qualification of personnel

Personnel	Requirements
Operator/user	<ul style="list-style-type: none"> <li>• No special expertise required</li> <li>• Knowledge of the tasks assigned</li> <li>• Knowledge of possible dangers in case of incorrect behaviour</li> <li>• Knowledge of the required protective equipment and protective measures</li> <li>• Knowledge of residual risks</li> </ul>
Owner/ operating company	<ul style="list-style-type: none"> <li>• Product-specific expertise</li> <li>• Knowledge of statutory regulations on work safety and accident prevention</li> </ul>

Personnel	Requirements
Qualified specialist <ul style="list-style-type: none"> <li>• Electrical engineering</li> <li>• Sanitary engineering (HVAC and plumbing)</li> <li>• Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Professional training</li> <li>• Knowledge of relevant standards and regulations</li> <li>• Knowledge of detection and prevention of potential hazards</li> <li>• Knowledge of statutory regulations on accident prevention</li> </ul>
Technical service (Grünbeck's technical service/authorised service company)	<ul style="list-style-type: none"> <li>• Extended product-specific expertise</li> <li>• Trained by Grünbeck</li> </ul>

### 1.5.2 Authorisations of personnel

The table below describes which tasks may be carried out by whom.

	Operator/ user	Owner/ operating company	Qualified specialist	Technical service
Transport and storage		X	X	X
Installation and mounting			X	X
Start-up/Commissioning			X	X
Operation and handling	X	X	X	X
Cleaning	X	X	X	X
Inspection	X	X	X	X
Maintenance	semi-annually	X	X	X
	annually		X	X
Troubleshooting		X	X	X
Repair			X	X
Decommissioning and re-start/recommissioning			X	X
Dismantling and disposal			X	X

## 2 Safety

### 2.1 Safety measures

- Only operate your product if all components are installed properly.
- Obey the local regulations on drinking water protection, accident prevention and occupational safety.
- Do not make any changes, alterations or extensions on your product. Only use genuine spare parts for maintenance or repair.
- Keep your product permanently connected to the power and water supply.
- Keep the premises locked against unauthorised access to protect imperilled or untrained persons from residual risks.
- Comply with the maintenance intervals (refer to chapter 8.2). Failure to comply can result in the microbiological contamination of your drinking water system.

#### 2.1.1 Pressure-related hazards

- Components can be under pressure. There is a risk of injuries and damage to property due to escaping water and unexpected movement of components. Check the pressure lines and the product for leaks at regular intervals.
- Before starting repair and maintenance work, make sure that all affected components are depressurised.

## 2.1.2 Electrical hazards

- Do not operate any products which have a damaged mains cable. This can lead to injuries due to electric shock. Have damaged mains cables replaced by the manufacturer or by authorised personnel without delay.
- There is an immediate danger of fatal injury from electric shock when touching live parts. Damage to the insulation or individual components can be life-threatening.
- Only have qualified electricians carry out electrical work on the product.
- In case of damage to live components, switch off the voltage supply immediately and arrange for repair.
- Switch off the supply voltage before working on electrical system parts. Discharge residual voltage.
- Never bridge electrical fuses. Do not disable fuses. Use the correct current ratings when replacing fuses.
- Keep moisture away from live parts. Moisture can cause short-circuits.

## 2.1.3 Groups of persons requiring protection

- Children must not play with the product.
- This product is not designed to be used by persons (including children) with reduced capabilities, lack of experience or lack of knowledge. Unless they are supervised, have been instructed on the safe use of the product and understand the resulting hazards.
- Cleaning and maintenance must not be carried out by children.

## 2.2 Product-specific safety instructions



### WARNING

Excessive contamination of the filter element

- Health risk due to contamination of the drinking water
- ▶ Comply with the intervals and recommendations for inspection and maintenance of the filter.

## 2.3 Conduct in emergencies

### 2.3.1 In case of water leaks

1. Close the shut-off valves for the water flow upstream and downstream of the filter.
2. De-energise the product - pull the plug-in power supply unit.
3. Locate the leak.
4. Eliminate the cause of the water leak.

## 3 Product description

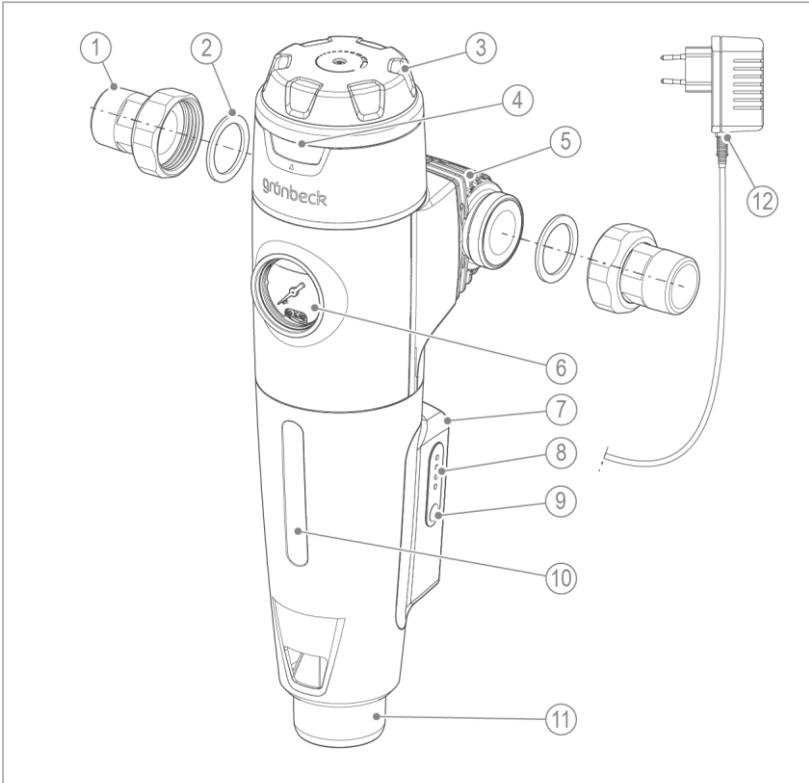
### 3.1 Intended use

- The automatic filters pureliQ:A and pureliQ:AD are designed for the filtration of drinking water.
- The automatic filter AD with pressure reducer in addition is suitable for the adjustment of the outlet pressure on the withdrawal side in order to maintain the max. admissible operating pressure stipulated in DIN EN 806-2.
- The filters can be used for positive and negative pressure applications. The backwash and the adjustment of the outlet pressure on the withdrawal side, however, only works when applied in the positive pressure range.
- The filters are designed according to the stipulations of DIN EN 13443-1 and DIN 19628 and are intended for installation into drinking water pipes according to DIN EN 806-2 (installation immediately downstream of the water meter).
- They protect the water pipes and connected water-carrying system parts from disturbances and corrosion damage due to undissolved impurities (particles) such as rust particles, sand, etc.

#### 3.1.1 Foreseeable misuse

- The filters are not suitable for circulation water that has been treated with chemicals.
- The filters are neither suitable for oils, greases, solvents, soaps and other lubricating media, nor for the separation of water-soluble substances.

### 3.2 Product components



Designation	
1	Water meter screw connection
2	Seal
3	Pressure reducer handwheel
4	Maintenance ring with month indicator
5	Click-type connection flange
6	Pressure gauge

Designation	
7	Automatic unit with controller
8	LEDs for backwash intervals
9	Push-button
10	Inspection window
11	Adapter for drain connection
12	Plug-in power supply unit with mains cable

### 3.3 Functional description

The unfiltered drinking water flows into the filter through the inlet side and from the outside in through the filter element and to the pure water outlet. Thus, foreign particles of a size  $> 100 \mu\text{m}$  are retained.

Depending on their size and weight, foreign particles stick to the filter element or they fall straight down into the filter cylinder.

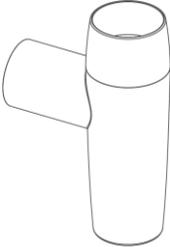
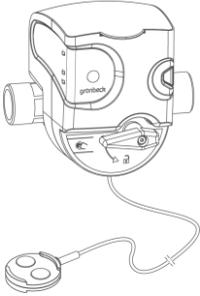
Subject to the setting, the controller automatically starts the backwash. Possible settings for the backwash intervals are 7, 30, 60 and 90 days. A manual backwash can be started at any time. Starting a backwash opens the drain. The water flows through the primary screen to the filter element and then passes through the filter element in the opposite direction to normal filtration. Thanks to Grünbeck's innovative Vortex technology, particles sticking to the filter element are detached and washed out to the drain.

The backwash process takes about 50 seconds. In case some particles still remain on the filter element, start a manual backwash again. Grünbeck recommends a backwash interval of 60 days.

In the automatic filter BOXER AD, the flow-optimised pressure reducer, which is designed according to DIN EN 1567, additionally enables the outlet pressure on the withdrawal side to be set to 1 – 6 bar (factory setting: 4 bar).

### 3.4 Accessories

You can retrofit your product with accessories. Please contact your local Grünbeck representative or Grünbeck's headquarters in Hoechstaedt/Germany for details.

Illustration	Product	Order no.
	<p><b>Drain connection DN 50</b></p> <p>For professional installation according to DIN EN 1717 with integrated siphon to discharge the backwash water to the drain.</p>	<p><b>188 875</b></p>
	<p><b>Safety device protectliQ:A20</b></p> <p>Product to protect against water damage in one and two-family homes. For other sizes, please inquire.</p>	<p><b>126 400</b></p>

## 4 Transport and storage

### 4.1 Transport

- ▶ Transport the product in its original packaging only.

### 4.2 Storage

- ▶ Protect the product from the impacts below when storing it:
  - Dampness, moisture
  - Environmental impacts such as wind, rain, snow, etc.
  - Frost, direct sunlight, severe heat exposure
  - Chemicals, dyes, solvents and their vapours

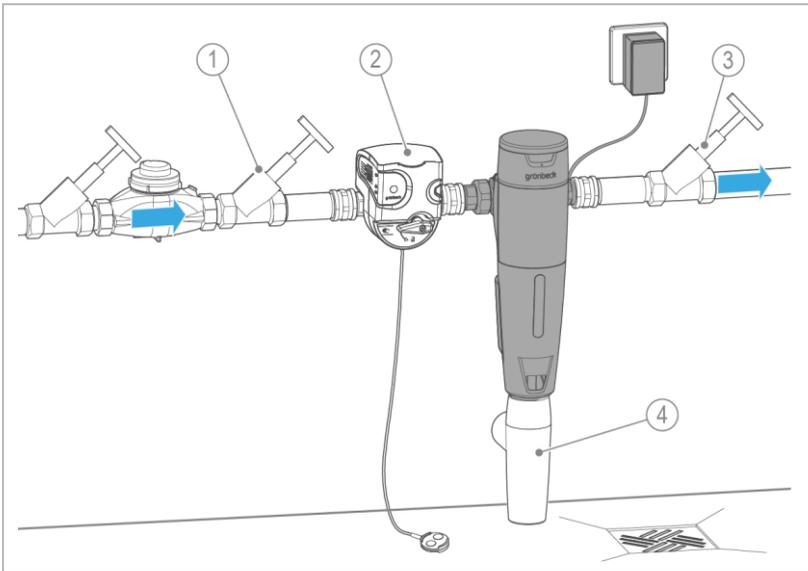
# 5 Installation



The installation of the product represents a major intervention into the drinking water system and must be carried out by a qualified specialist only.

In accordance with DIN EN 806-2 and DIN EN 1717, the product is installed in the cold water pipe downstream of the water meter and upstream of distribution pipes and the appliances to be protected.

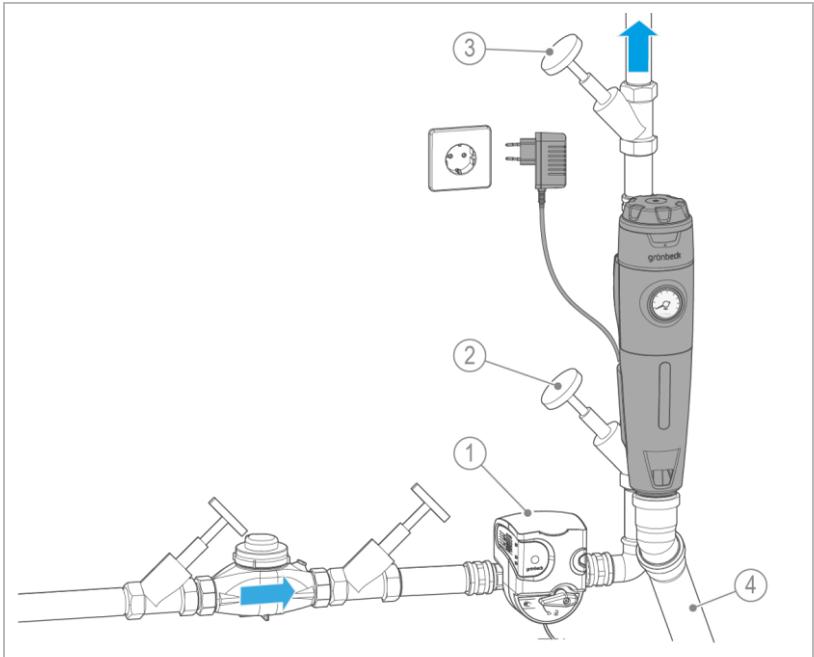
## Installation example in horizontal pipe



Designation	
1	Inlet shut-off valve
2	Safety device protectliQ

Designation	
3	Outlet shut-off valve
4	Drain connection DN 50 acc. to DIN EN 1717 (optional)

## Installation example in vertical pipe



### Designation

- 1 Safety device protectliQ
- 2 Inlet shut-off valve
- 3 Outlet shut-off valve

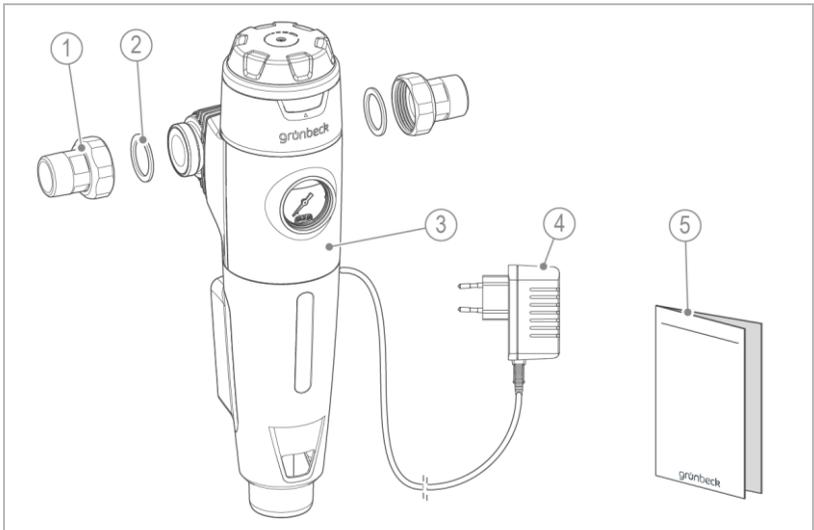
### Designation

- 4 Piping to be provided by the client on site for drain connection DN 50 acc. to DIN EN 1717

## 5.1 Requirements for the installation site

- The installation site must be frost-proof and ensure the filter's protection from chemicals, dyes, solvents and their vapours as well as from direct sunlight.
- The installation site must be away from heat sources (e.g. washing machines, boilers and hot water pipes).
- A drain connection DN 50 must be available to discharge the flushing water.
- The installation room must provide a floor drain. If no floor drain is available, an appropriate safety device must be installed in order to prevent water damage. We recommend using a protectliQ:A.
- The installation site must be adequately illuminated and ventilated.
- The installation site must be easily accessible for maintenance purposes.
- For electrical connection, a Schuko socket is required within a distance of approx. 1.2 m. The socket outlet requires permanent power supply and must not be coupled with light switches, emergency heating switches or the like.

## 5.2 Checking the scope of supply



### Designation

- 1 Water meter screw connection
- 2 Seal
- 3 Automatic filter pureliQ:A or pureliQ:AD

### Designation

- 4 Plug-in power supply unit with mains cable of approx. 1.5 m in length
- 5 Quick reference manual

► Check the scope of supply for completeness and damage.



The transparent plastic film serves as transport and dirt protection.

- Leave it on the product during installation and during the construction phase to prevent soiling of the white housing.

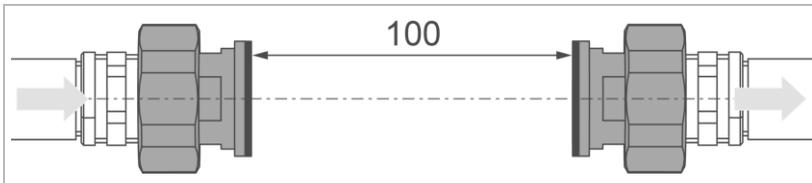
## 5.3 Water installation



The rotatable click-type connection flange allows the filter to be adapted to any flow direction given on site.

The filter can be installed in a horizontal or vertical water pipe.

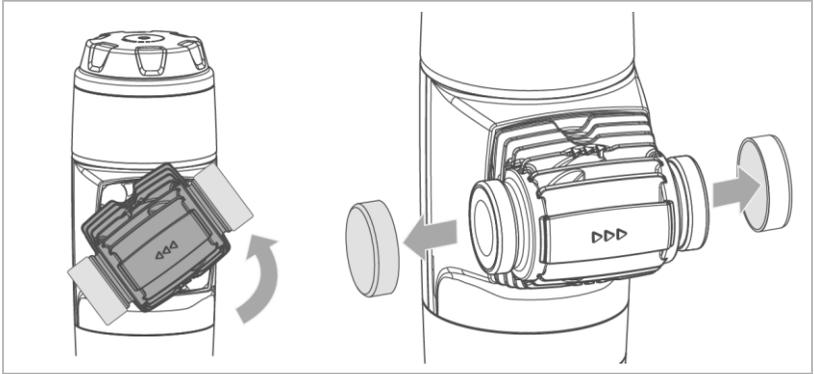
### 5.3.1 Preparing the pipe



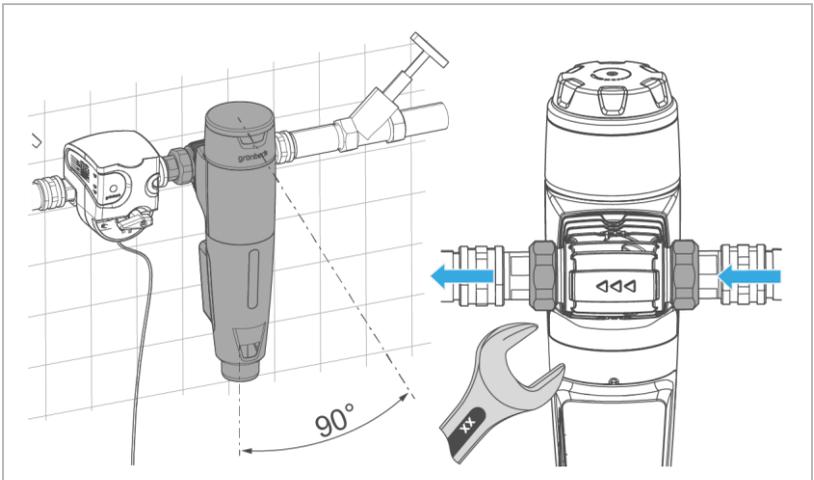
- ▶ Install the water meter screw connection in the pipe.
- » The distance between the two seals must be 100 mm.

### 5.3.2 Installing the connection flange

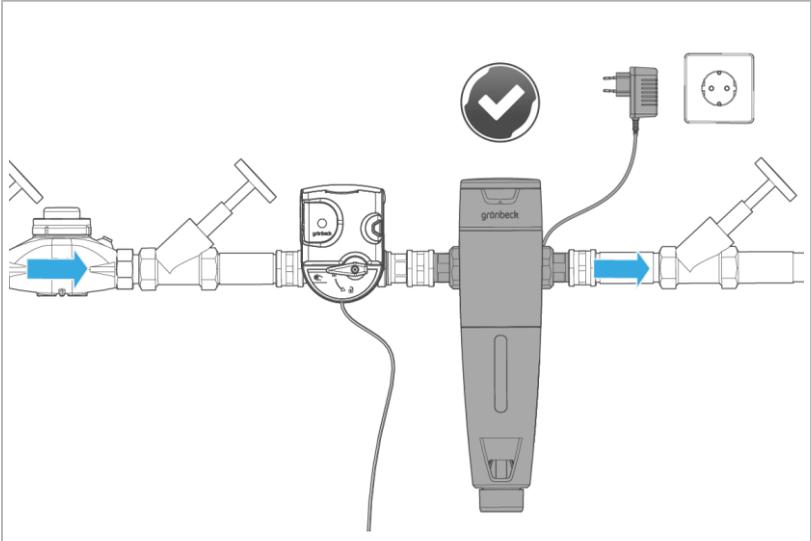
1. Check the flow direction given on site.
2. Leave the protective caps on the threads.



3. Rotate the click-type connection flange into the position matching your flow direction (refer to the marking on the click-type connection flange).
  - » The arrow must correspond to the flow direction of the water.
4. Remove the protective caps.



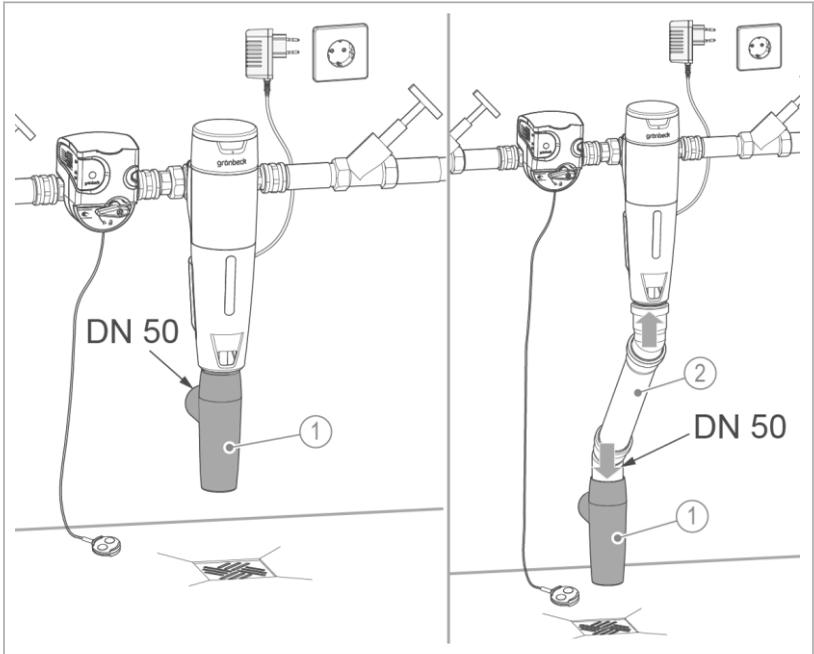
5. Tighten the click-type connection flange with the union nuts without applying any mechanical stress.



» The filter is installed.

### 5.3.3 Attaching the backwash connection

#### Discharge of backwash water with drain connection



#### Designation

- 1 Drain connection DN 50 acc. to DIN EN 1717

#### Designation

- 2 Waste water pipe provided by client on site



Refer to the mounting instructions of the drain connection (order no. 100105420000).

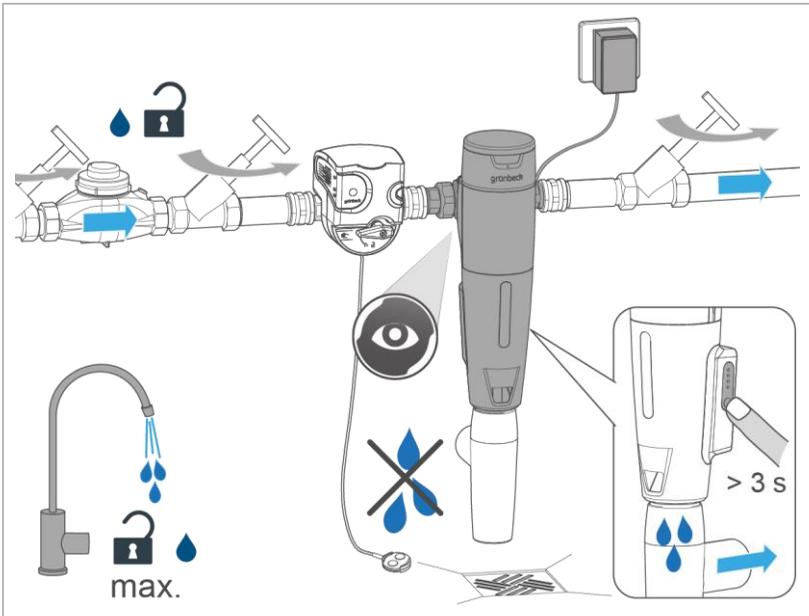
- ▶ Install the drain connection (not included in the scope of supply, refer to chapter 3.4).
- ▶ Install a waste water pipe towards the drain.

## 6 Start-up/Commissioning



The initial start-up/commissioning of the product must be carried out by technical service personnel only.

### 6.1 Checking the product



1. Open the shut-off valves.
2. Open the closest water withdrawal point downstream of the filter to the maximum.
3. Check the filter for leaks.
4. Plug the plug-in power supply unit into the socket.
  - » LED 60d lights up.



The filter does not automatically backwash during initial start-up/commissioning. A backwash interval of 60 days is factory-set.

5. Start a manual backwash (refer to chapter 7.2.2).



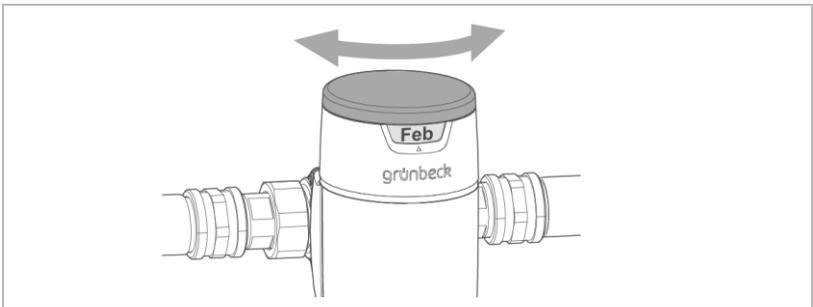
The interval counter is then set to zero. The next backwash takes place at the set interval. For setting the backwash interval refer to chapter 7.2.

- » The filter is vented by the backwash.
6. Enter the initial start-up/commissioning in the operation log (refer to chapter 13).
- » The filter is in operation.

## 6.2 Setting the month indicator



In order not to miss a maintenance date, you can set the next date for maintenance by turning the month indicator.

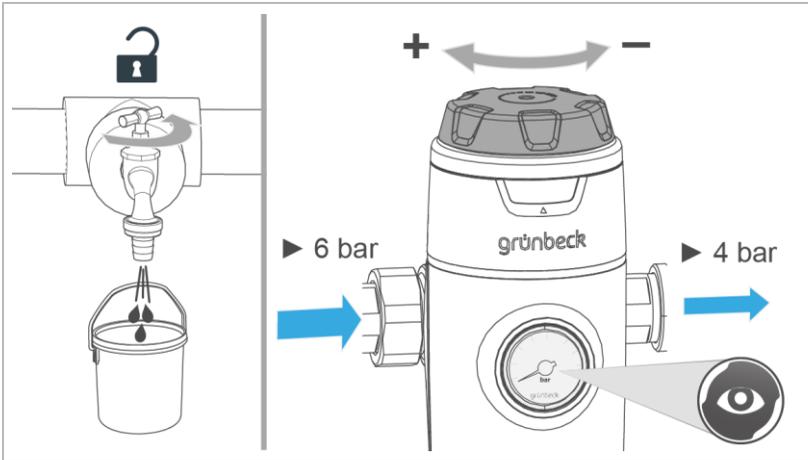


- ▶ Set the maintenance ring to the month of the next maintenance.

## 6.3 Setting the pressure reducer (pureliQ:AD)

The factory setting for the pressure reducer is 4 bar.

You can change this value as follows:



1. Set the required outlet pressure on the pressure reducer handwheel (turn counterclockwise = pressure increase, turn clockwise = pressure reduction).
2. Open and close a water withdrawal point.
  - » The outlet pressure adjusts itself.
3. Read the actual outlet pressure on the pressure gauge.
4. Repeat steps 1. – 3. until the desired pressure is reached.
  - » The desired outlet pressure is set.



The outlet pressure is set according to DIN EN 806-2.

- ▶ Comply with the max. admissible operating pressure.

## 6.4 Handing over the product to the owner/operating company

- ▶ Explain to the owner/operating company how the product works.
- ▶ Use the manual to brief the owner/operating company and answer any questions.
- ▶ Inform the owner/operating company about the need for inspections and maintenance.
- ▶ Hand over all documents to the owner/operating company for keeping.

### 6.4.1 Disposal of packaging

- ▶ Dispose of packaging material as soon as it is no longer needed (refer to chapter 11.2).

## 7 Operation

The filter is operated automatically and does not require any manual operation.

The motor unit of the filter takes over the backwash independently and time-controlled.

The filter should always be connected to the power supply.

If the power supply is interrupted, the filter automatically completes any backwash that might be in progress.

During the initial start-up/commissioning or after a longer interruption of the electrical power supply, the backwash protection will only be available again after approx. 5 minutes.



- ▶ Inspect the filter at regular intervals (refer to chapter 8.3).
- ▶ Flush the filter after a temporary downtime (refer to chapter 10.1).

### 7.1 Installing Grünbeck's myProduct app



You can register your product using Grünbeck's myProduct app.

That way, you will receive additional information on your product.

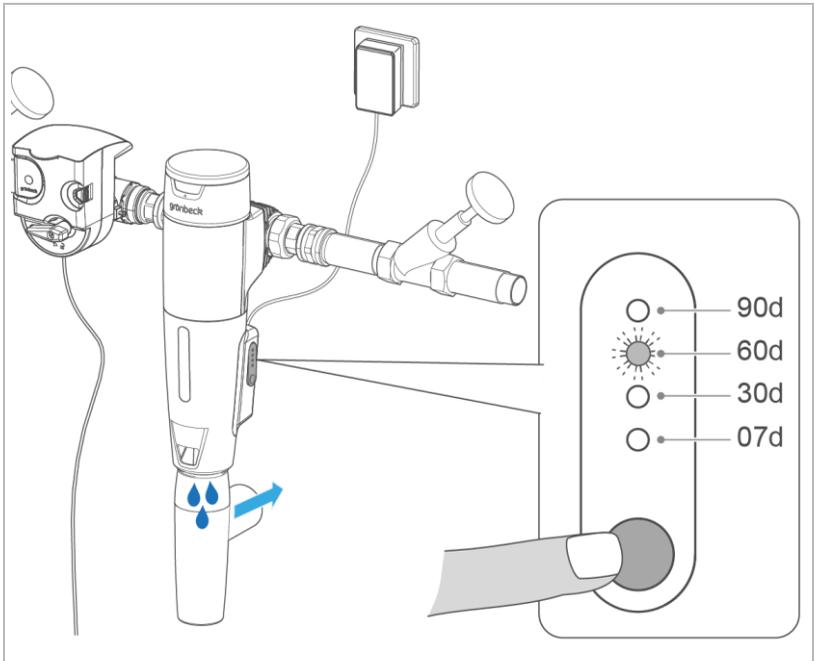
- ▶ Download Grünbeck's myProduct app and install it on your mobile device.
- » Registering your product extends your warranty by 1 year.

## 7.2 Operating the backwash unit

The automatic filter automatically starts backwash processes at the set intervals.

The backwash intervals are factory-set to 60 days. You can change the backwash intervals.

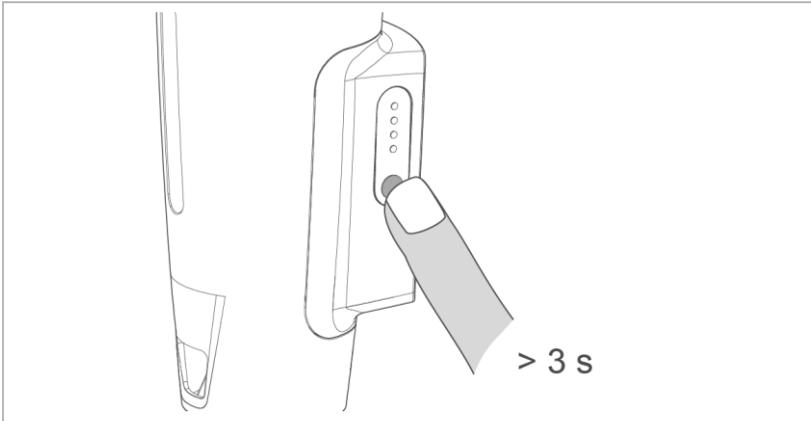
### 7.2.1 Setting the backwash intervals



- ▶ Press the push-button repeatedly until the desired backwash interval is set.
  - » The corresponding LED lights up.
  - » The filter automatically backwashes at the set interval.

- » The backwash process takes about 50 seconds.
- ▶ In case some particles still remain on the filter element, start a manual backwash again.

## 7.2.2 Starting a manual backwash



- ▶ Press the push-button for 3 seconds.
- » During the backwash process, approx. 14 l of backwash water are discharged to the drain.

## 8 Maintenance and repair

Maintenance and repair includes cleaning, inspection and maintenance of the product.



The responsibility for inspection and maintenance is subject to local and national requirements. The owner/operating company is responsible for compliance with the prescribed maintenance and repair work.



By concluding a maintenance contract you make sure that all maintenance work will be carried out on time.

- ▶ Only use genuine spare and wearing parts from Grünbeck.

### 8.1 Cleaning

#### NOTE

Do not clean the product with cleaning agents containing alcohol/solvents

- These substances damage the plastic components
- ▶ Use a mild/pH-neutral soap solution.
- ▶ Only clean the outside of the product.
- ▶ Do not use any strong or abrasive cleaning agents.
- ▶ Wipe the surfaces with a damp cloth.

## 8.2 Intervals



By way of regular inspections and maintenance, malfunctions can be detected in time and product failures might be prevented.

- ▶ As owner/operating company determine which components must be inspected and maintained at which intervals (load-dependent). The intervals are subject to the actual conditions such as: water condition, degree of impurities, environmental impacts, consumption, etc.

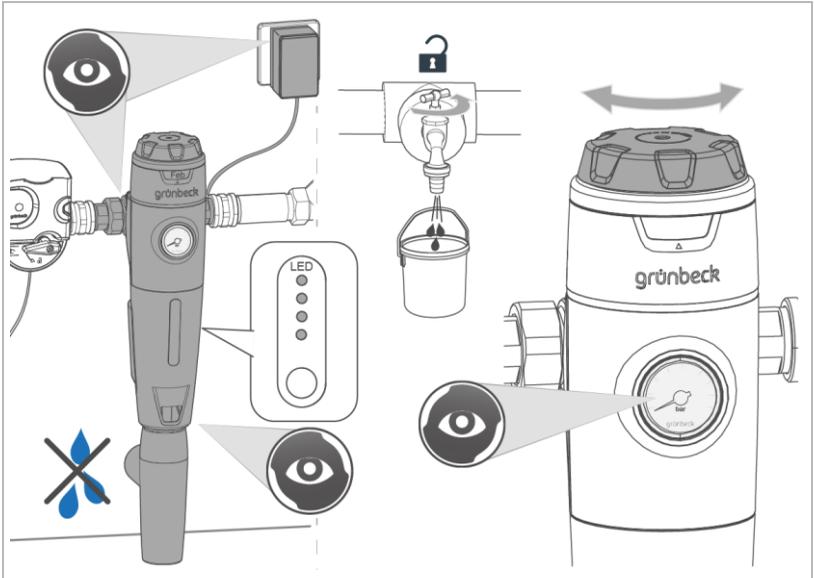
The interval table below shows the minimum intervals for the activities to be carried out.

Task	Interval	Tasks
Inspection	2 months	<ul style="list-style-type: none"> <li>• Visual/functional check</li> <li>• Read the pressure (for pureliQ:AD)</li> </ul>
Maintenance	6 months	<ul style="list-style-type: none"> <li>• Manual backwash</li> <li>• Condition and leak check</li> <li>• Set the maintenance ring</li> <li>• Check plug-in power supply unit with mains cable</li> </ul>
	annually as needed	<ul style="list-style-type: none"> <li>• Manual backwash</li> <li>• Check O-rings/flat seals for wear and tear</li> <li>• Check automatic drive for wear and tear</li> <li>• Check for tight fit</li> </ul>
Repair	5 years	<ul style="list-style-type: none"> <li>• Recommendation: Replace filter element, seals, backwash valve, fastening nut</li> </ul>
	10 years	<ul style="list-style-type: none"> <li>• Recommendation: Replace filter cylinder and automatic drive</li> </ul>

## 8.3 Inspection

You as owner/operating company can carry out the regular inspections yourself.

- ▶ Carry out an inspection at least every 2 months and proceed as follows to do so:



1. Check the installation for leaks and function.
  2. Check whether the LEDs indicate a malfunction.
  3. Read the static pressure (zero flow) of pureliQ:AD.
  4. Fully open a water withdrawal point (generate max. flow) and read the flow pressure.
- ▶ Carry out a manual backwash in case of increasing contamination of the filter element and/or decreasing water pressure in the pipe network.

## 8.4 Maintenance



For safety reasons, Grünbeck recommends semi-annual maintenance and annual maintenance according to DIN EN 806-5 in order to ensure trouble-free and hygienic operation of the product.

### 8.4.1 Semi-annual inspection

1. Check the installation for leaks and function.
2. Start a manual backwash.
3. Check the plug-in power supply unit with mains cable for damage.



A defective plug-in power supply unit or mains cable must be replaced by authorised specialist personnel only.

4. Set the date for the next inspection (6 months) by setting the month indicator (refer to 6.2).

### 8.4.2 Annual maintenance as needed

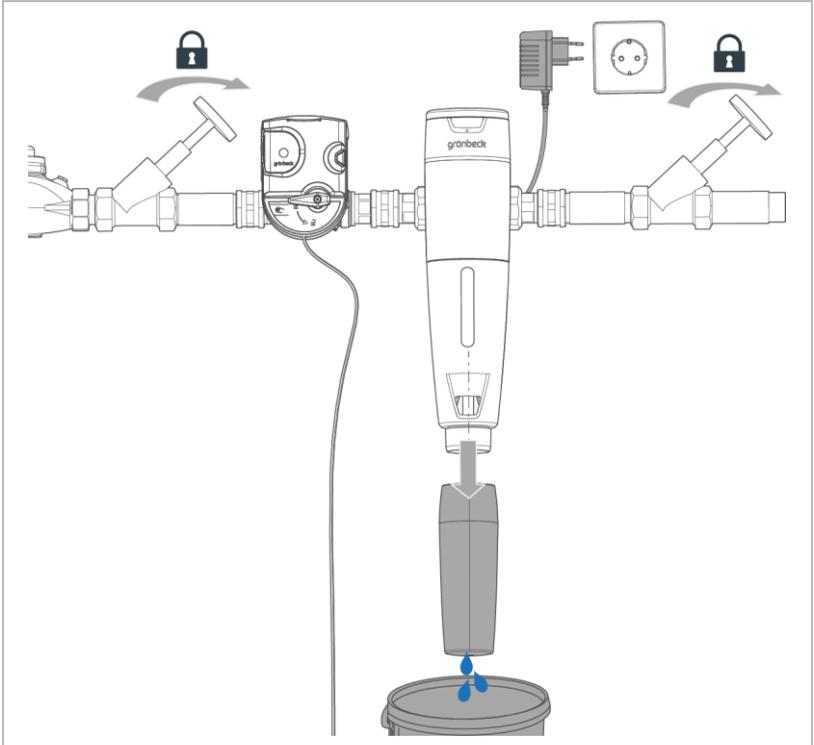


The work below must be carried out by qualified specialists only.

If a malfunction reoccurs repeatedly, this indicates wear and tear.

Proceed as follows to carry out a wear and tear check:

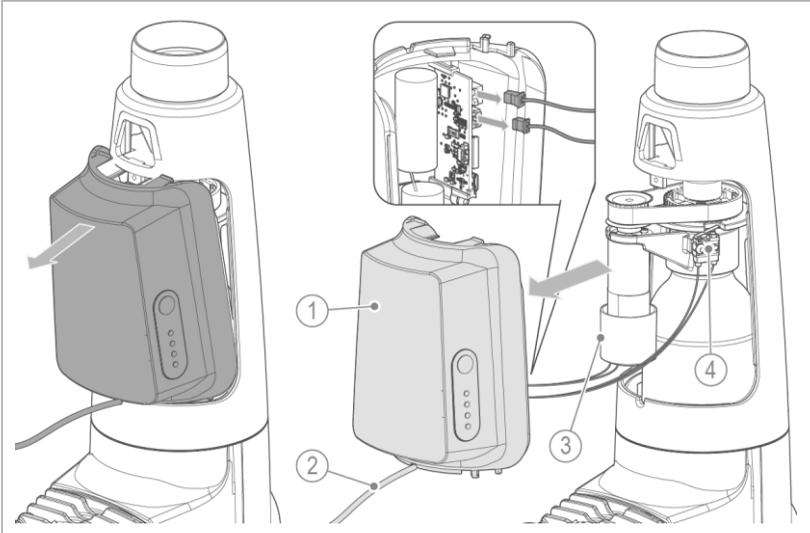
- Close the shut-off valves on the inlet and on the outlet.



1. Carry out a manual backwash to relieve the water pressure in the filter and in the water pipe.
2. Pull the plug-in power supply unit from the socket.
3. Remove the drain connection.
4. Check for the tight fit of the filter in the pipe.



The filter can be turned over for easier removal and access to the automatic unit with controller.



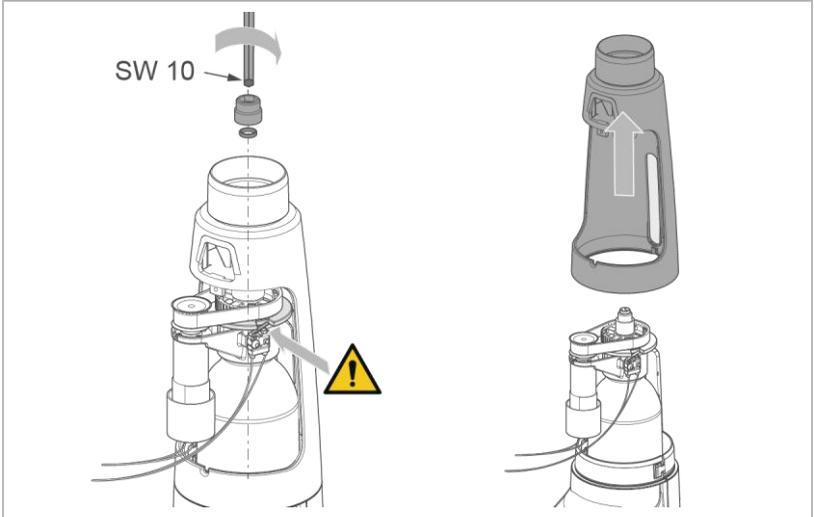
**Designation**

- 1 Control unit
- 2 Mains cable with power supply unit

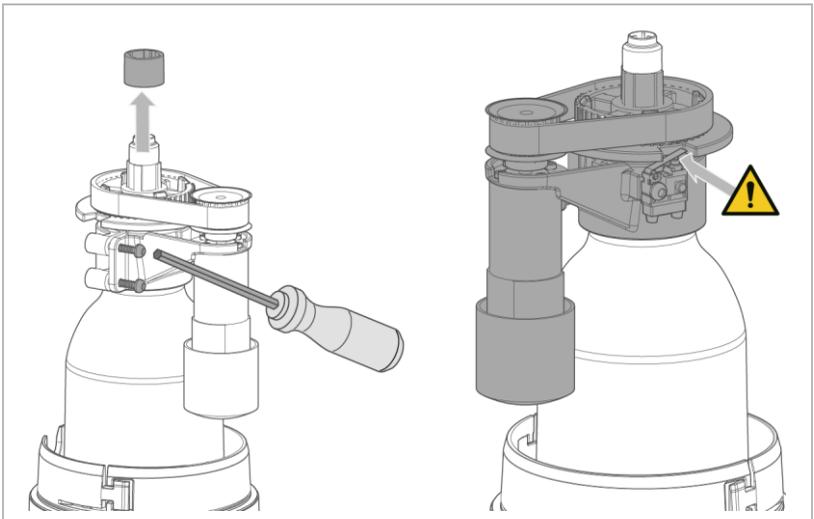
**Designation**

- 3 Motor unit
- 4 Microswitch

5. Pull the control unit from the cover of the filter cylinder. Make sure not to damage the mains cable.
6. Disconnect the connector of the motor unit and the micro-switch from the circuit board.
7. Put the detached control unit to the side.



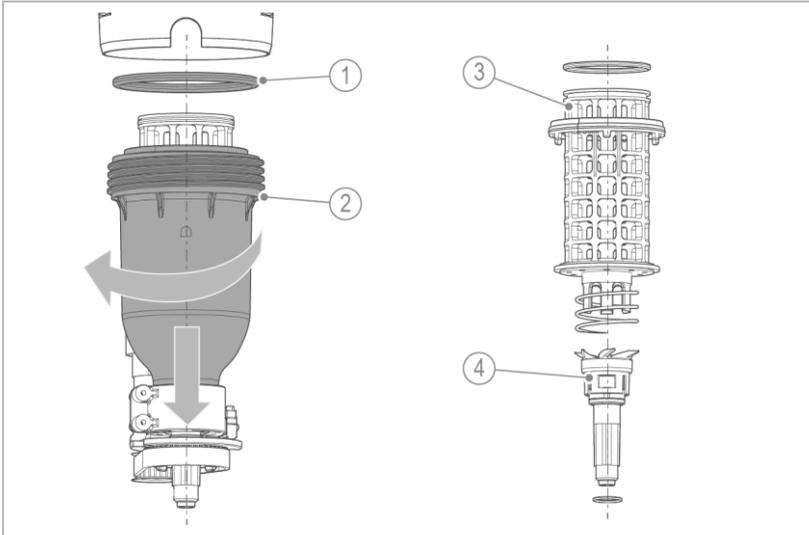
8. Loosen the fastening nut. Firmly hold the motor unit with the microswitch while doing so.
9. Carefully pull off the cover of the filter cylinder.



10. Check the motor unit for wear and tear.

**11.** Replace the motor unit, if necessary.

You can remove the filter cylinder together with the motor unit.



Designation	
1	O-ring of filter cylinder
2	Filter cylinder

Designation	
3	Filter element
4	Backwash valve incl. seal

**12.** Unscrew the filter cylinder. Make sure not to damage the motor unit with the microswitch.

**13.** Check the O-rings and flat seals for wear and tear.

**14.** Check the backwash valve for free movement and damage.

**15.** Check the filter element for damage and dirt deposits.

16. Replace worn components as needed (refer to chapter 8.6).

- ▶ Install the filter and put the installation back into operation again (refer to chapter 6).

## 8.5 Spare parts

For an overview of the spare parts, refer to our spare parts catalogue at [www.gruenbeck.com](http://www.gruenbeck.com). You can obtain the spare parts from your local Grünbeck representative.

## 8.6 Wearing parts



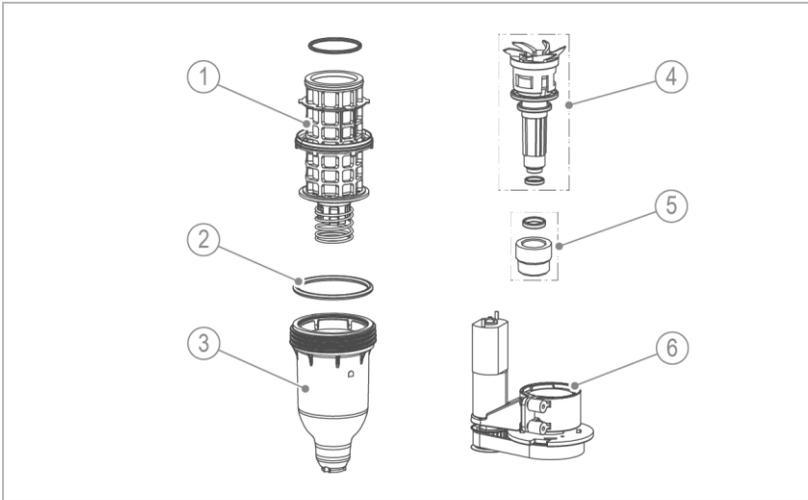
Wearing parts must be replaced by qualified specialists only.

Wearing parts are listed below:

- Seals (O-rings)
  - Filter element
  - Backwash valve
  - Fastening nut
  - Automatic drive
- ▶ Have the seals replaced in the event of leaks, damage or deformations.
  - ▶ Have defective or worn components replaced (refer to chapter 8.7).

## 8.7 Service kits

### 8.7.1 Service kits for pureliQ:A

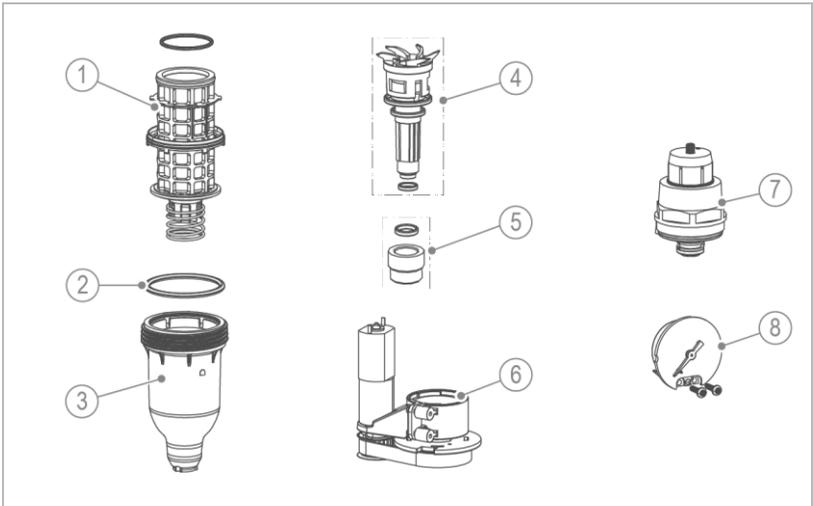


Designation		Designation	
1	Filter element	4	Backwash valve incl. seals
2	O-ring of filter cylinder	5	Fastening nut incl. seal
3	Filter cylinder	6	Automatic drive

Designation	Consisting of:	Order no.	Recommended replacement interval
<b>Service kit I</b>	<ul style="list-style-type: none"> <li>• 100 µm filter element incl. seal</li> <li>• O-ring of filter cylinder</li> <li>• Backwash valve incl. seals</li> <li>• Fastening nut incl. seal</li> </ul>	<b>101 694e</b>	5 years
<b>Service kit II</b>	<ul style="list-style-type: none"> <li>• Service kit I</li> <li>• Filter cylinder</li> <li>• Automatic drive</li> </ul>	<b>101 696e</b>	10 years

## 8.7.2 Service kits for pureliQ:AD



Designation	Designation
1 Filter element	5 Fastening nut incl. seal
2 O-ring of filter cylinder	6 Automatic drive
3 Filter cylinder	7 Pressure reducer
4 Backwash valve incl. seals	8 Pressure gauge

Designation	Consisting of:	Order no.	Recommended replacement interval
<b>Service kit III</b>	<ul style="list-style-type: none"> <li>• Service kit I</li> <li>• Pressure reducer</li> <li>• Pressure gauge</li> </ul>	<b>101 697e</b>	5 years
<b>Service kit IV</b>	<ul style="list-style-type: none"> <li>• Service kit III</li> <li>• Filter cylinder</li> <li>• Automatic drive</li> </ul>	<b>101 698e</b>	10 years

<b>Tools required</b>	<b>Order no.</b>
Strap wrench (to remove the filter cylinder)	<b>105 805</b>
Pipe socket wrench (for pressure reducer cartridge)	<b>104 805</b>
Allen key 10 (for fastening nut)	
TORX T8 (pressure gauge)	
TORX T10 (pressure reducer adjusting cap)	

# 9 Troubleshooting



## WARNING

Contaminated drinking water due to stagnation

- Infectious diseases
- ▶ Have malfunctions eliminated immediately.

## 9.1 Messages

LED message	Explanation	Remedy
	All four LEDs are flashing	<ul style="list-style-type: none"> <li>▶ Carry out manual backwash</li> <li>▶ If the message does not disappear, contact technical service</li> </ul>
	<ul style="list-style-type: none"> <li>• Timeout during the backwash procedure (&gt; 115 s)</li> <li>• Timeout when starting the backwash</li> </ul>	
	Valve blocked	
	Motor defective	
	Timing belt defective	
Defect of microswitch during backwash		
	Uppermost LED 90d is flashing	<ul style="list-style-type: none"> <li>▶ Carry out manual backwash</li> <li>▶ If the message does not disappear, contact technical service</li> </ul>
	Microswitch defective	

## 9.2 Observations

Observation	Explanation	Remedy
Water pressure at the withdrawal point too low (pressure loss too high)	The shut-off valves are not fully open	▶ Fully open the shut-off valves
	The filter element is dirty	▶ Carry out manual back-wash
	The pressure reducer is not set correctly or is defective	▶ Have pressure reducer checked, adjusted or replaced by technical service
Taste of treated water negatively affected	Inappropriately long period of non-use (downtime)	▶ Withdraw water for several minutes
		▶ Carry out manual back-wash
Solids contained in the filtered water	Inappropriately high flow through the filter	▶ Check filter element for damage or leaks
	Filter element damaged or not installed correctly	▶ Have filter element replaced by technical service
Water loss in the system (leaks)	Faulty joint	▶ Check O-rings and seals for deformations or wear and tear
		▶ Check filter head for damage
		▶ Check connection flange for damage
		▶ Have leaky components replaced by a qualified specialist



If a malfunction cannot be eliminated, the technical service personnel can take further measures.

- ▶ Contact technical service (refer to inner cover sheet for contact data).

# 10 Decommissioning

It is not necessary to put your product out of operation.



In case of longer absences, e.g. holidays, precautionary hygiene measures according to VDI 3810-2 and VDI 6023-2 must be taken in order to maintain drinking water hygiene after downtimes.

## 10.1 Temporary downtime

Should you wish to temporarily shut down your water supply due to a longer period of absence, proceed as follows.

- ▶ Keep the filter connected to mains.
- ▶ Close the shut-off valve downstream of the filter.
  - » The filter carries out the backwash processes automatically.
  - » The product remains in an operating state generally recognised as safe.

## 10.2 Restart/recommissioning

1. Open the shut-off valve downstream of the filter.
2. Carry out a manual backwash (refer to chapter 7.2.2).
3. Open a water withdrawal point and completely flush the filter and the pipes.

# 11 Dismantling and disposal

## 11.1 Dismantling



The work described herein represents an intervention into your drinking water system.

► Have this work carried out by qualified specialists only.

1. Close the shut-off valves upstream and downstream of the filter.
2. Open a water withdrawal point and wait for a few seconds.
  - » The pressure in the filter and the pipe network is being relieved.
3. Close the water withdrawal point.
4. Carry out a manual backwash.
5. Pull the plug-in power supply unit from the socket.
6. Remove the filter from the pipe.
7. Close the gap in your drinking water pipes, e.g. by using an adjusting piece.

## 11.2 Disposal

- ▶ Obey the applicable national regulations.

### Packaging

#### NOTE

Danger to the environment due to incorrect disposal

- Packaging materials are valuable raw materials that can be reused in many cases.
- Incorrect disposal can cause hazards to the environment.
- ▶ Dispose of packaging materials in an environmentally sound manner.
- ▶ Obey the local disposal regulations.
- ▶ If necessary, commission a specialist company with the disposal.

### Plug-in power supply unit

- ▶ Remove the plug-in power supply unit with mains cable from the control unit.
- ▶ Take the plug-in power supply unit to the collection point for electrical and electronic products.

## Product



If this symbol (crossed-out wheellie bin) is on the product, this product or its electrical and electronic components must not be disposed of as household waste.

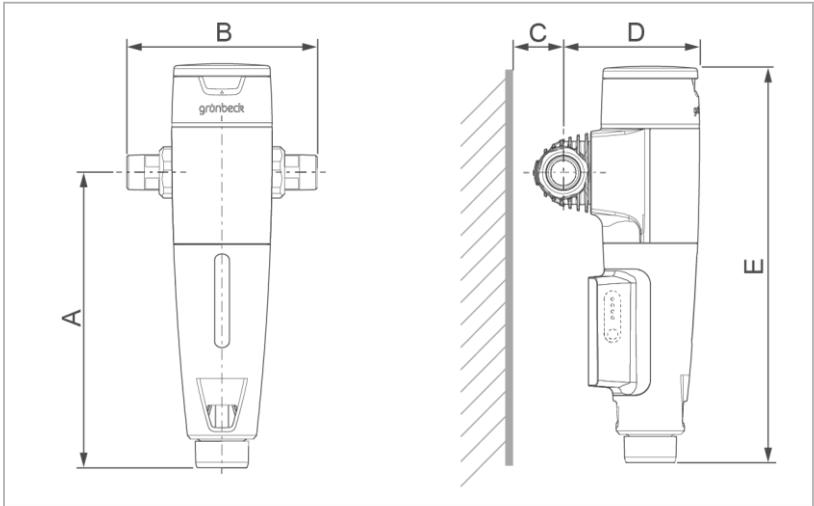
- ▶ Find out about the local regulations on the separate collection of electrical and electronic products.
- ▶ Make use of the collection points available to you for the disposal of your product.
- ▶ If your product contains batteries or rechargeable batteries, dispose of them separately from your product.



For more information on take-back and disposal, go to [www.gruenbeck.com](http://www.gruenbeck.com).

# 12 Technical specifications

## 12.1 pureliQ:A



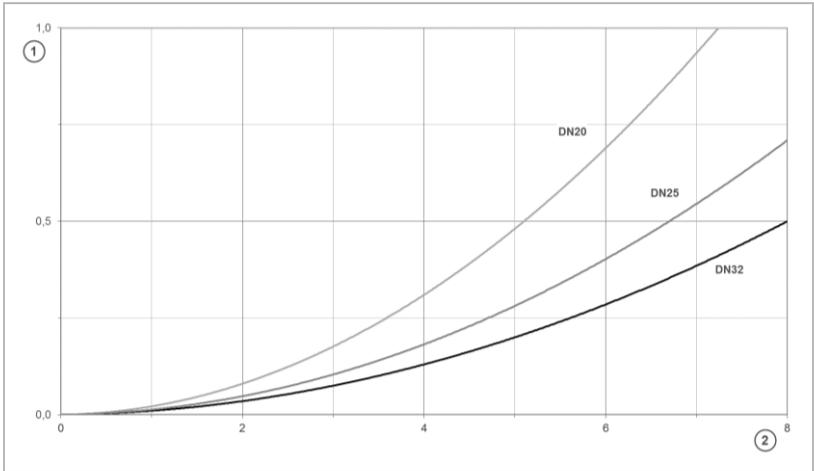
Dimensions and weights			pureliQ:A		
			A20	A25	A32
Nominal connection diameter			DN 20	DN 25	DN 32
Connection diameter			¾"	1"	1¼"
Drain connection			DN 50		
A	Installation height up to centre of connection	mm	285		
B	Installation length with/without screw connection	mm	185/100	182/100	191/100
C	Distance to wall	mm	≥ 50		
D	Installation depth up to centre of connection	mm	135	135	145
E	Total height	mm	385		
	Empty weight	kg	1.8	2.0	2.2
	Operating weight	kg	~ 2.3	~ 2.5	~ 2.7

Connection data		A20	A25	A32
Power supply	V/Hz	100 – 240/50 – 60		
Power input	W	2/0.075		
Operation = max./standby				
Protection/protection class		IP42/□		

Performance data		A20	A25	A32
Nominal flow at $\Delta p$ 0.2 (0.5) bar	m <sup>3</sup> /h	3.2 (5.1)	4.2 (6.7)	5.0 (8.0)
K <sub>V</sub> value	m <sup>3</sup> /h	7.2	9.5	11.3
Pore size	µm	100		
Largest/smallest pore size	µm	120/80		
Operating pressure	bar	2 – 16		
Nominal pressure		PN 16		

General data		A20	A25	A32
Backwash water volume at an inlet pressure of 4 bar	l	~ 14		
Water temperature	°C	5 – 30		
Ambient temperature	°C	5 – 40		
DVGW registration number		NW-9301CT0031		
SVGW certificate number		1803-6727		
ÜA registration number <i>The Office of the Vienna Provincial Government – City of Vienna</i>		R-15.2.3-21-17496 R-15.2.1-22-17624		
<b>Order no.</b>		<b>101 420</b>	<b>101 425</b>	<b>101 430</b>

## 12.2 Pressure loss curves of pureliQ:A



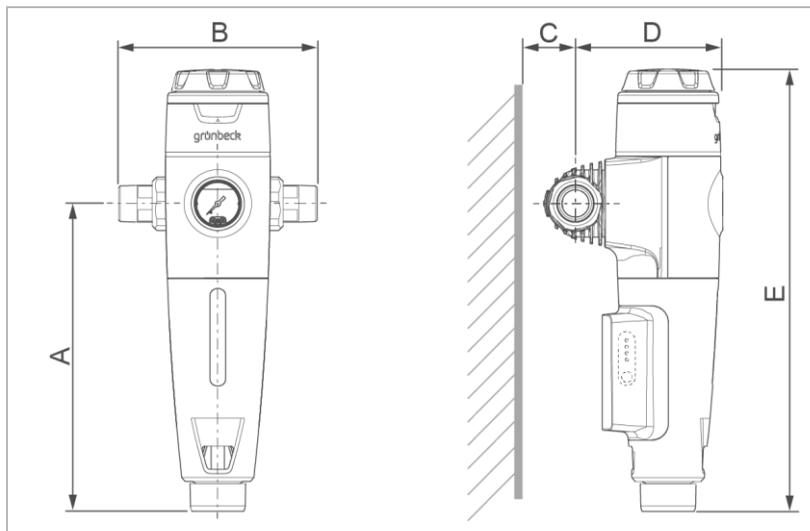
**Designation**

**1** Pressure loss in bar

**Designation**

**2** Flow rate in m³/h

## 12.3 pureliQ:AD



Dimensions and weights		pureliQ:AD			
		AD20	AD25	AD32	
Nominal connection diameter		DN 20	DN 25	DN 32	
Connection diameter		¾"	1"	1¼"	
Drain connection		DN 50			
A	Installation height up to centre of connection	mm	285		
B	Installation length with/without screw connection	mm	185/100	182/100	191/100
C	Distance to wall	mm	≥ 50		
D	Installation depth up to centre of connection	mm	135	135	145
E	Total height	mm	405		
	Empty weight	kg	2.0	2.2	2.4
	Operating weight	kg	~ 2.5	~ 2.7	~ 2.9

Connection data		AD20	AD25	AD32
Power supply	V/Hz	100 – 240/50 – 60		
Power input Operation = max./standby	W	2/0.075		
Protection/protection class		IP42/ 		
Performance data		AD20	AD25	AD32
Flow rate as per DIN EN 1567	m³/h	2.3	3.6	5.8
Pore size	µm	100		
Largest/smallest pore size	µm	120/80		
Operating pressure	bar	2 – 16		
Nominal pressure		PN 16		
General data		AD20	AD25	AD32
Backwash water volume at an inlet pressure of 4 bar	l	~ 14		
Water temperature	°C	5 – 30		
Ambient temperature	°C	5 – 40		
DVGW registration number		NW-9311CT0032		
SVGW certificate number		1803-6728		
ÜA registration number <i>The Office of the Vienna Provincial Govern- ment – City of Vienna</i>		R-15.2.3-21-17496 R-15.2.1-22-17624		
<b>Order no.</b>		<b>101 470</b>	<b>101 475</b>	<b>101 480</b>

# 13 Operation log



- ▶ Document the initial start-up/commissioning and all maintenance activities.

Automatic filter pureliQ: \_\_\_\_\_

Serial no.: \_\_\_\_\_

## 13.1 Start-up/Commissioning log

Customer		
Name		
Address		
Installation/Accessories		
Drain connection in accordance with DIN EN 1717	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Floor drain present	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Safety device	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Operating values		
Water pressure at raw water inlet	bar	
Water pressure at water outlet	bar	
Residential water meter reading	m <sup>3</sup>	
Start-up/Commissioning		
Company		
Service technician		
Work time certificate (no.)		
Date/signature		



# EU Declaration of Conformity

In accordance with the EU Low-Voltage Directive 2014/35/EU, Appendix IV



This is to certify that the system designated below meets the safety and health protection requirements of the applicable EU guidelines in terms of its design, construction and execution.

This certificate becomes void if the system is modified in any way not approved by us.

**Automatic filter pureliQ:A/AD**

**Serial no.: Refer to type plate**

The aforementioned system also complies with the following directives and provisions:

- EMC Directive (2014/30/EU)
- Directive on the Restriction of Hazardous Substances RoHS (2011/65/EU)

The following harmonised standards have been applied:

- EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019
- EN 62233:2008

Responsible for documentation:

Mirjam Müller

Manufacturer:

Grünbeck Wasseraufbereitung GmbH  
Josef-Grünbeck-Str. 1  
89420 Hoechstaedt/Germany

Hoechstaedt/Germany, 11/05/2021



ppa. Dietmar Ladenburger  
Technical Director

*Member of the Executive Board*



Grünbeck Wasseraufbereitung GmbH  
Josef-Grünbeck-Str. 1  
89420 Hoehstaedt/Germany

 +49 9074 41-0

 +49 9074 41-100

[info@gruenbeck.com](mailto:info@gruenbeck.com)  
[www.gruenbeck.com](http://www.gruenbeck.com)



For more information go to  
[www.gruenbeck.com](http://www.gruenbeck.com)