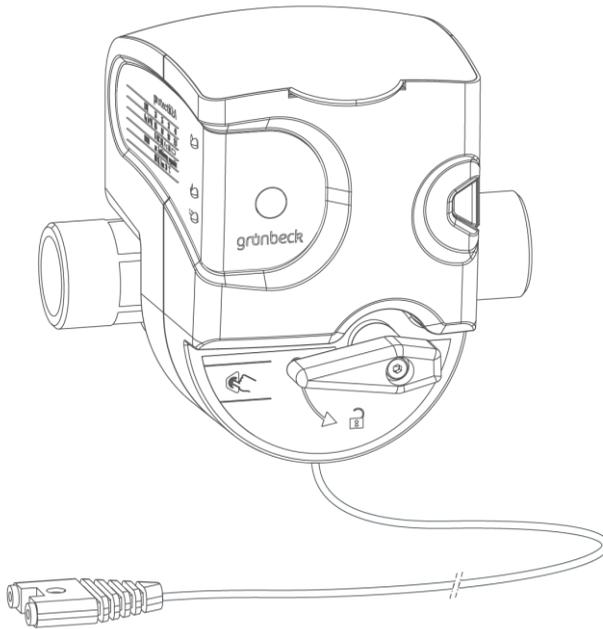


We understand water.



Safety device | protectliQ:A

Operation manual

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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.
- Adhere to all safety information 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 may differ from the actual design.

1.1 Validity of the instruction

This manual applies to following product:

- Safety device protectliQ:A20, A25, A32, A40

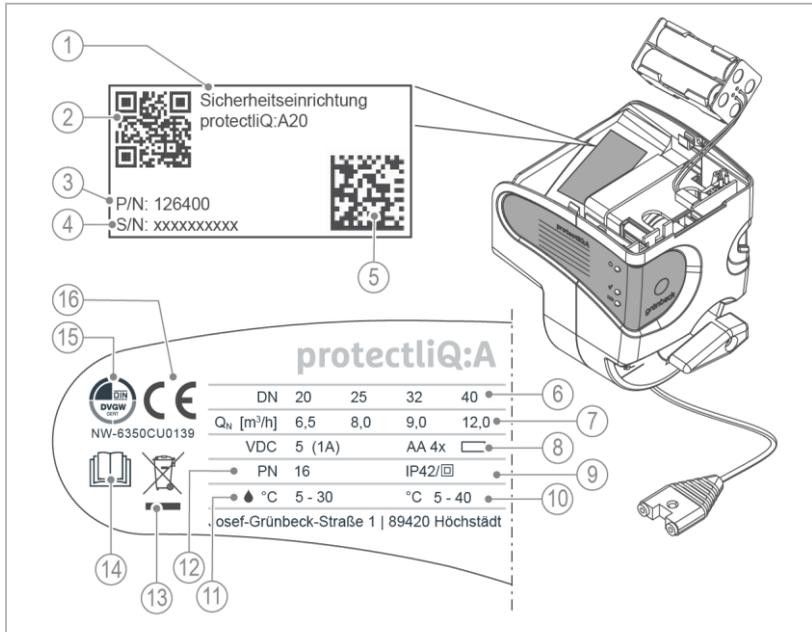
1.2 Product identification

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 housing.

The label with the serial number is located in the housing, below the battery compartment.



Designation	
1	Product designation
2	QR code
3	Order no.
4	Serial no.
5	Data matrix code
6	Nominal connection diameter
7	Nominal flow
8	Voltage supply
9	Protection/protection class
10	Ambient temperature
11	Water temperature

Designation	
12	Nominal pressure
13	Disposal information
14	Observe operation manual
15	DVGW test mark
16	CE mark

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 may only be carried out by qualified specialists.
	Work that may only be carried out by qualified electricians.
	Work that may only be carried out by technical service personnel .

1.4 Depiction of warnings

This manual contains instructions that you must comply with for your personal safety. The information and instructions are highlighted by a warning symbol and have the following structure:



SIGNAL WORD

Type and source of danger

- Possible consequences
- ▶ Preventive measures

The following signal words were defined subject to the degree of danger and may be used in the present document:

Warning symbol and signal word	Consequences when disregarding the information/instructions	
 DANGER		Death or serious injuries
 WARNING	Personal injuries	Possible death or serious injury
 CAUTION		Possible moderate or slight injuries
NOTE	Damage to property	Possible damage to components, the product and/or its function or damage to 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. The tasks require different skills.

1.5.1 Qualification of personnel

Personnel	Requirements
Operator/user	<ul style="list-style-type: none"> • No special expertise required • Knowledge of the tasks assigned • Knowledge of possible dangers in case of incorrect behaviour • Knowledge of the required protective equipment and protective measures • Knowledge of residual risks
Owner/operating company	<ul style="list-style-type: none"> • Product-specific expertise • Knowledge of statutory regulations on work safety and accident prevention
Qualified specialist <ul style="list-style-type: none"> • Electrical engineering • Sanitary engineering (HVAC and plumbing) • Transport 	<ul style="list-style-type: none"> • Professional training • Knowledge of relevant standards and regulations • Knowledge of detection and prevention of potential hazards • Knowledge of statutory regulations on accident prevention

Personnel	Requirements
Technical service (Grünbeck's technical service/ authorised service company)	<ul style="list-style-type: none"> • Extended product-specific expertise • Trained by Grünbeck

1.5.2 Authorisations of personnel

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

	Opera- tor/user	Owner/ operating company	Qualified specialist	Techn- ical service
Transport and storage		X	X	X
Installation and mounting			X	X
Start-up/Commissioning		X	X	X
Operation and handling	X	X	X	X
Cleaning	X	X	X	X
Inspection	X	X	X	X
Maintenance annually		X	X	X
Troubleshooting				X
Repair			X	X
Decommissioning and re- start/recommissioning		X	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 or alterations 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 (see 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 immediately replaced by the manufacturer or by authorised personnel.
- 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 voltage supply 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

The product has no product-specific risks.



Regular battery replacement is required in case of battery-only operation (see chapter 8.4.1).

2.3 Conduct in emergencies

2.3.1 In case of water leaks

1. Check whether the safety device has shut off the water inlet.
If this is not the case shut the valve of
2. Disconnect the plug-in power supply unit, if available.
3. Locate the leak.
4. Eliminate the cause of the water leak.

3 Product description

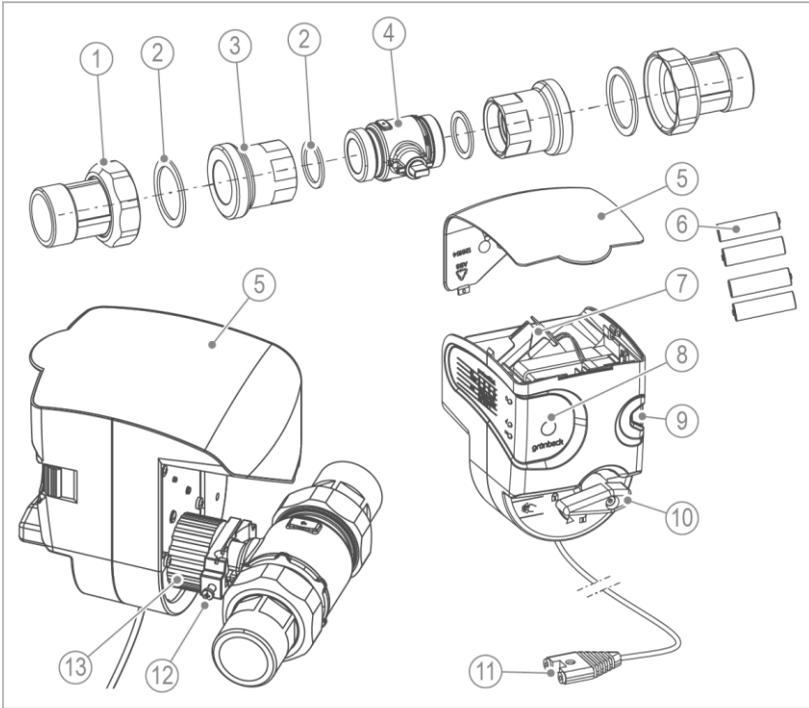
3.1 Intended use

- The safety device protectliQ protects rooms and their equipment from water damage.
- The use of a protectliQ safety device is recommended for installations in rooms with high-risk potential such as electric shock as well as high material damage to equipment.
- The protectliQ safety device is intended for use in the drinking water sector and is suitable for cold water up to 30 °C temperature.

3.1.1 Foreseeable misuse

- Use with non-conductive water such as permeate or rain water
The leaking water must have a conductivity of at least 20 $\mu\text{S}/\text{cm}$.

3.2 Product components



Designation	
1	Union nut
2	Flat seal
3	Reduction
4	Ball valve
5	Lid
6	Batteries (4 pieces)
7	Battery compartment

Designation	
8	Operating key
9	Release for hand lever
10	Hand lever
11	Water sensor
12	Fixing screw
13	Adapter

3.3 Functional description

The protectliQ water sensor permanently monitors critical locations in moist-prone rooms such as kitchens, bathrooms or laundry rooms, etc.

In case water collects on the floor, the water sensor responds and the safety device protectliQ automatically closes the water supply.

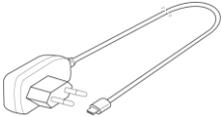
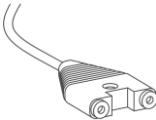
The protectliQ safety device is powered by means of batteries - independent of the mains supply. The service life of the battery can be significantly extended by using an optional plug-in power supply unit.

The plug-in power supply unit is not absolutely necessary for the operation of the protectliQ safety device.

The ball valve of the protectliQ safety device can be operated by means of a hand lever at any time.

3.4 Accessories

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

Illustration	Product	Order no.
	Plug-in power supply unit For 230 V shock-proof socket with Micro USB and 1.5 m mains cable. In this case, the power supply is provided by the plug-in power supply unit. The service life of the batteries is thus extended considerably.	126 802
	Water sensor with 2 m cable	126 805
	Water sensor with 10 m cable	126 815
	Second water sensor to monitor an additional sector of the room.	

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

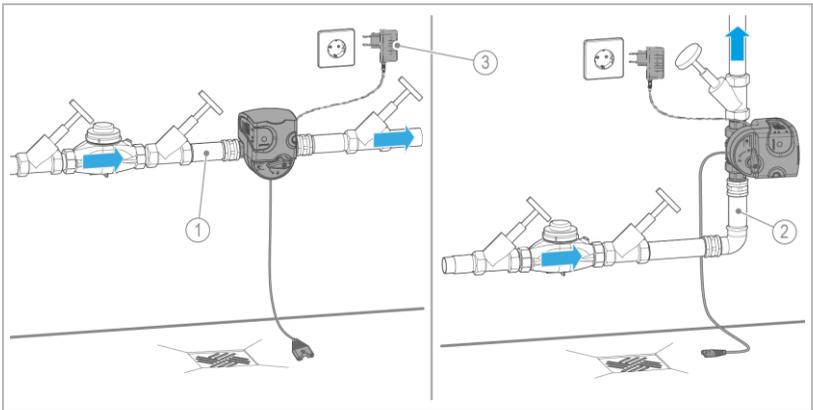
5 Installation



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 only protectliQ



Designation

- 1 Horizontal installation
- 2 Vertical installation

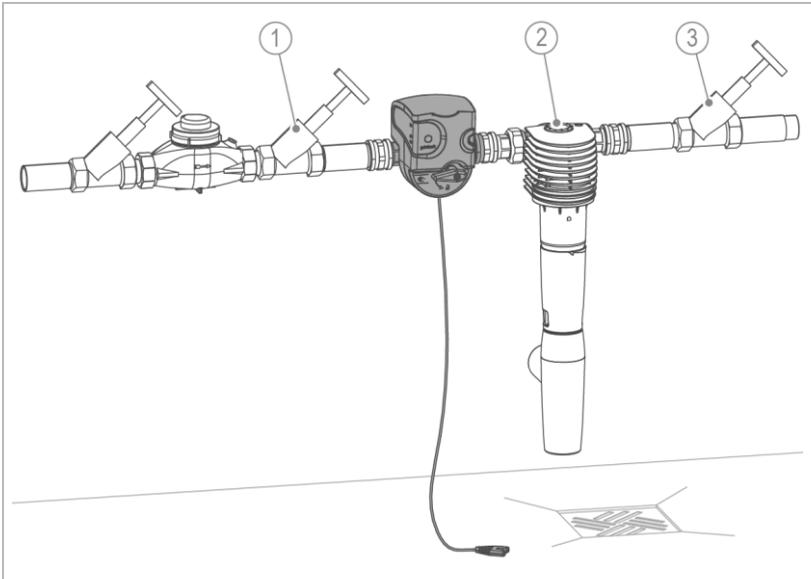
Designation

- 3 Plug-in power supply unit (optional)



The protectliQ safety device may be installed into horizontal or vertical water pipes regardless of the flow direction.

Installation example protectliQ with battery operation



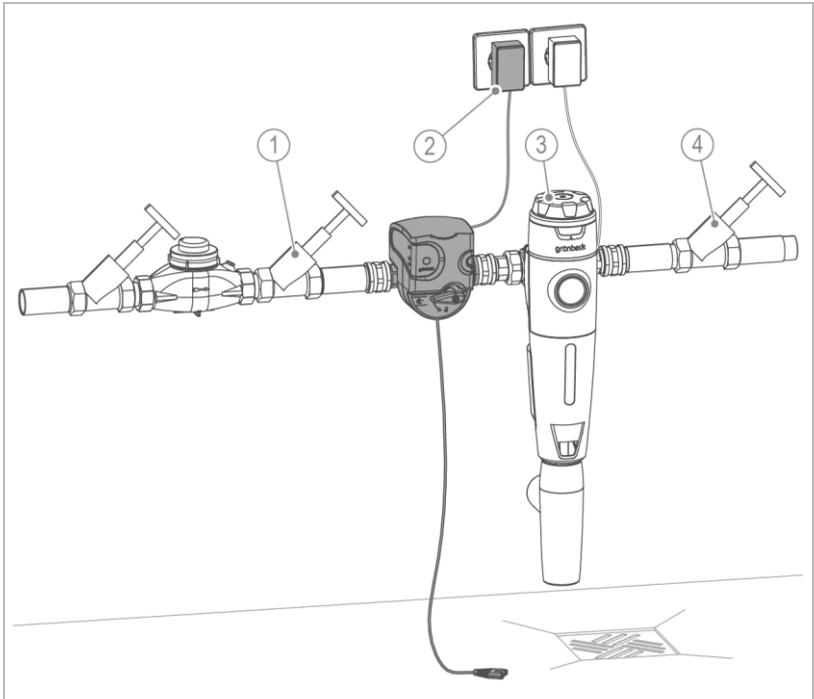
Designation

- 1 Inlet shut-off valve
- 2 Drinking water filter (e.g. BOXER:RX)

Designation

- 3 Outlet shut-off valve

Installation example protectliQ with plug-in power unit



Designation

- | | |
|---|--------------------------------------|
| 1 | Inlet shut-off valve |
| 2 | Plug-in power supply unit (optional) |

Designation

- | | |
|---|-------------------------------------|
| 3 | Automatic filter (e.g. pure-liQ:AD) |
| 4 | Outlet shut-off valve |

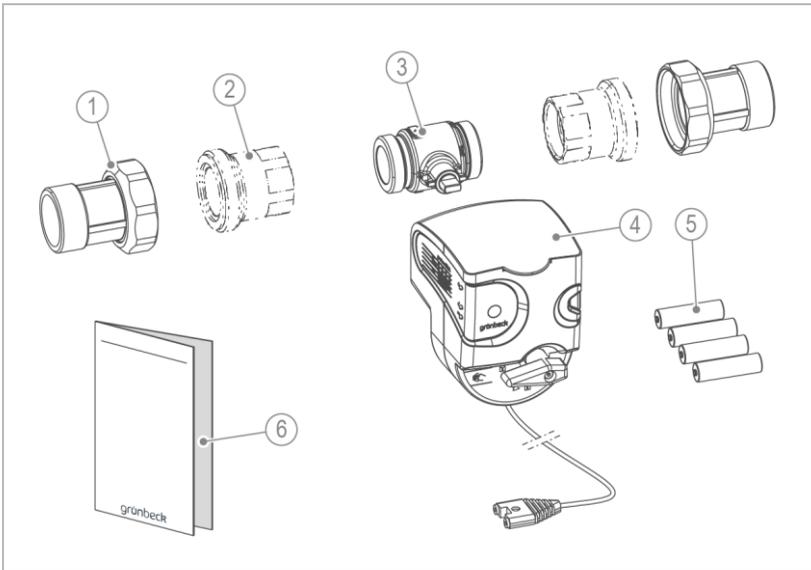
5.1 Requirements for the installation site

- The installation site must be frost-proof and protect the product from chemicals, dyes, solvents, and their vapours.
- The installation site must be easily accessible for maintenance purposes.
- The installation site must be adequately illuminated and ventilated.

For operation with plug-in power unit

- A shock-proof socket is required for electrical installation. The socket requires a permanent power supply.

5.2 Checking the scope of supply



Designation	
1	Water meter screw connection with flat seal and union nut (2 pieces)
2	Reducer* (2 pieces)
3	Ball valve

Designation	
4	protectliQ with water sensor
5	Batteries (4 pieces)
6	Operation manual

* only for protectliQ:A32 and protectliQ:A40

- ▶ Check the scope of supply for completeness and damage.

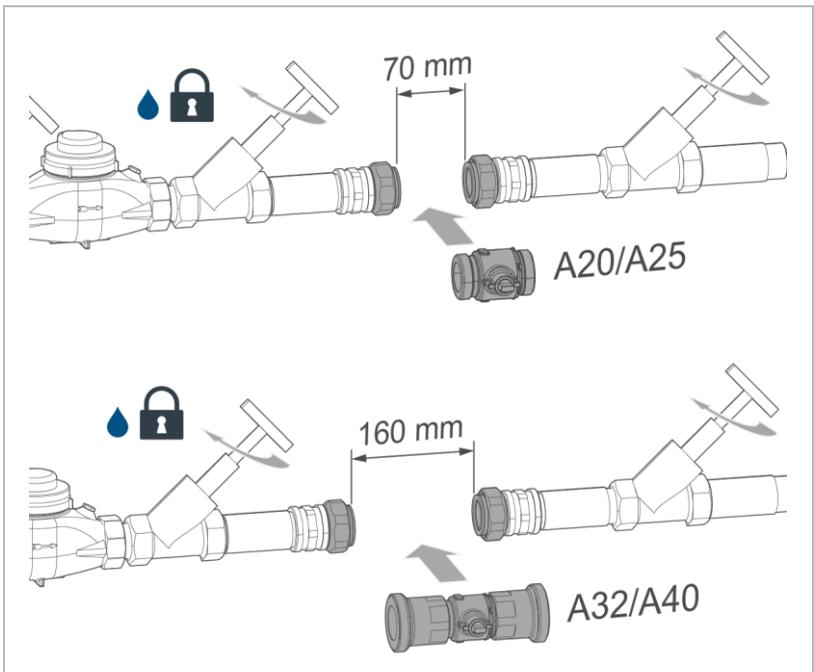
5.3 Water installation



The protectliQ safety device may be installed into horizontal as well as vertical water pipes.

The mounting of the ball valve is not dependent on the flow direction.

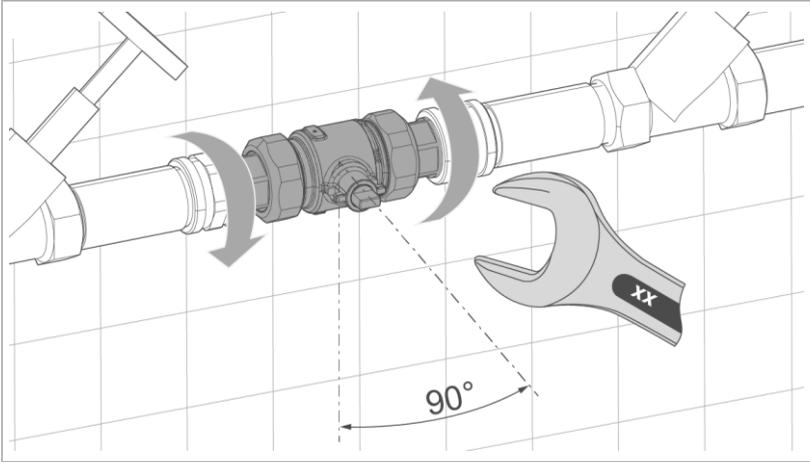
5.3.1 Preparing the pipe



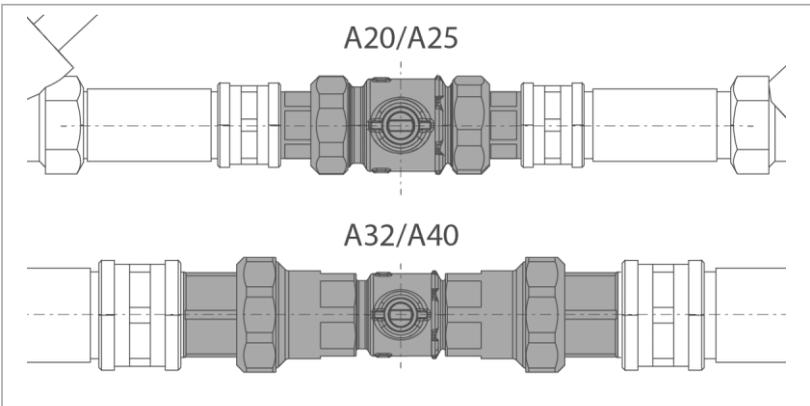
Only for protectliQ:A32/A40

- ▶ Screw the reducers with the flat seal onto the ball valve.

5. Install the water meter screw connection in the pipe.
The distance between the two seals must be as follows
protectliQ:A20/A25 = 70 mm
protectliQ:A32/A40 = 160 mm

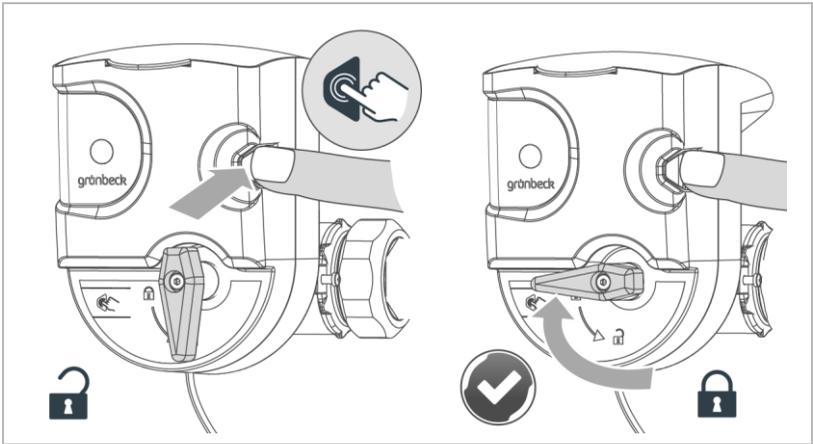


6. Tighten the ball valve with the union nuts without applying mechanical stress.

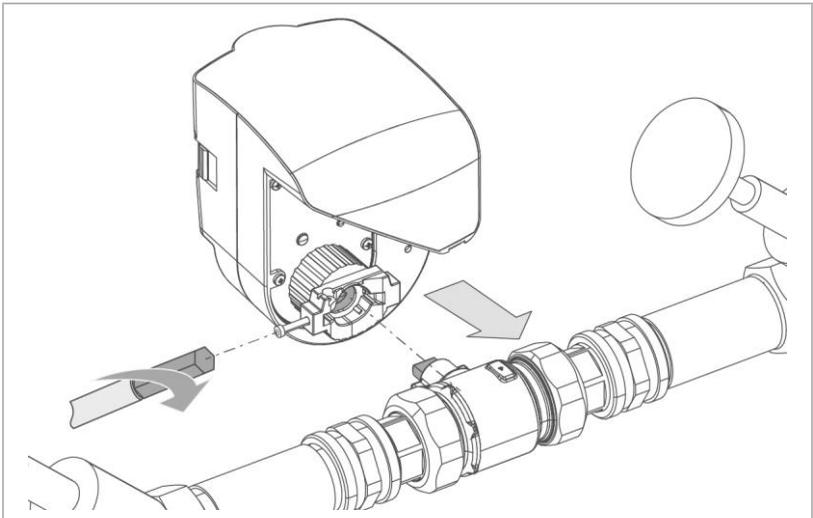


- » The ball valve is installed.

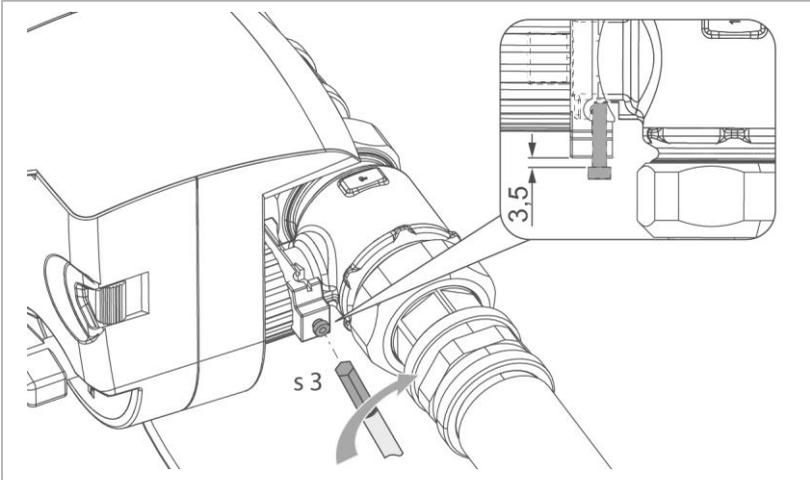
5.3.2 Mounting the protectliQ



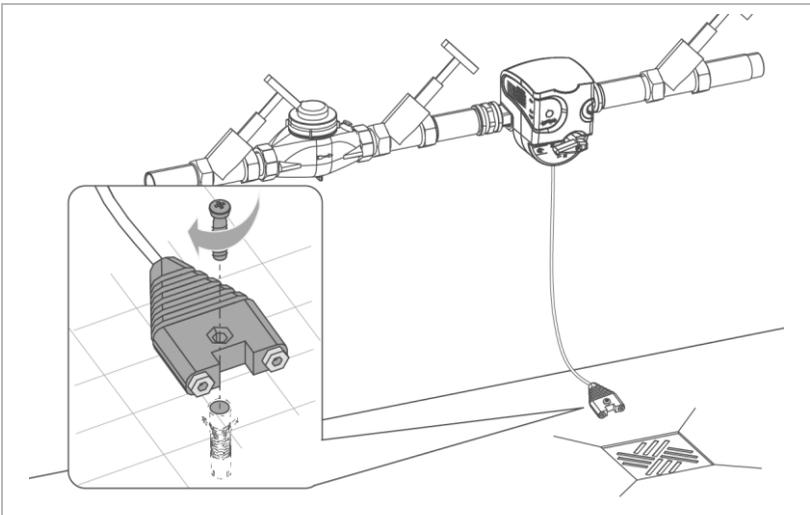
1. Check whether the hand lever is set to .
2. If this is not the case: Press the release button and turn the hand lever to  ..



3. Place the protectliQ onto the ball valve.



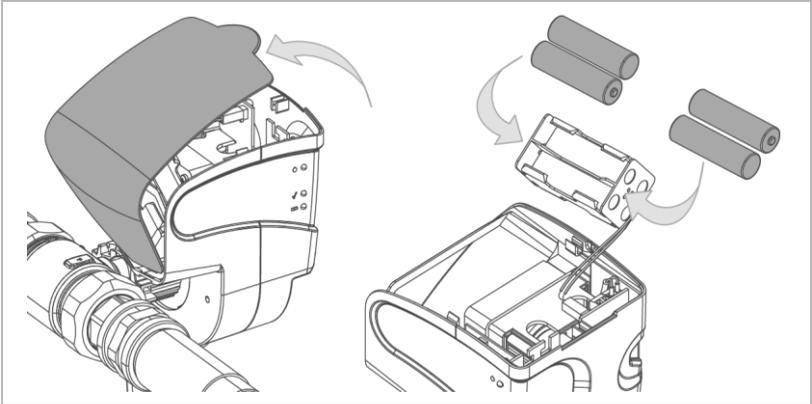
4. Tighten the fixing screw.
5. Check the pipe connection for leaks.



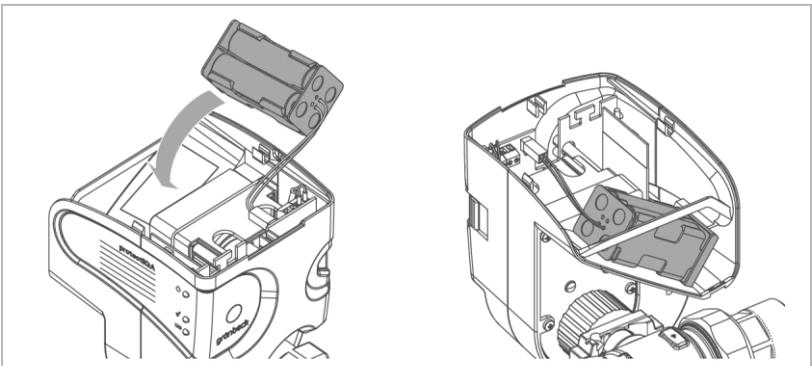
6. Place the water sensor flat on the floor.
7. If required, firmly fix the water sensor on the ground. (fastening material not included in the scope of supply)

6 Start-up

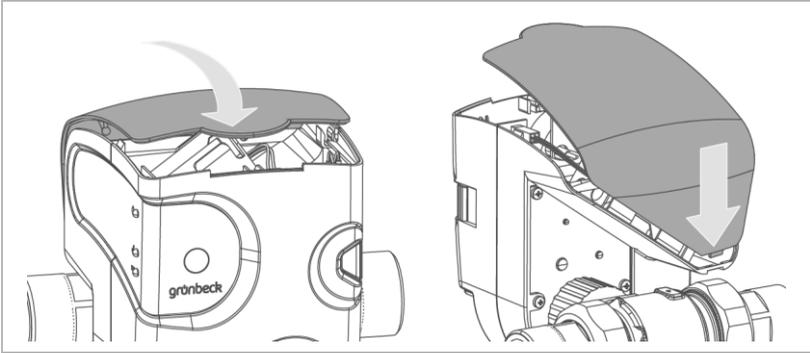
6.1 Inserting the batteries



1. Pull the lid off upwards.
2. Insert the batteries into the battery compartment. Pay attention to the polarity.



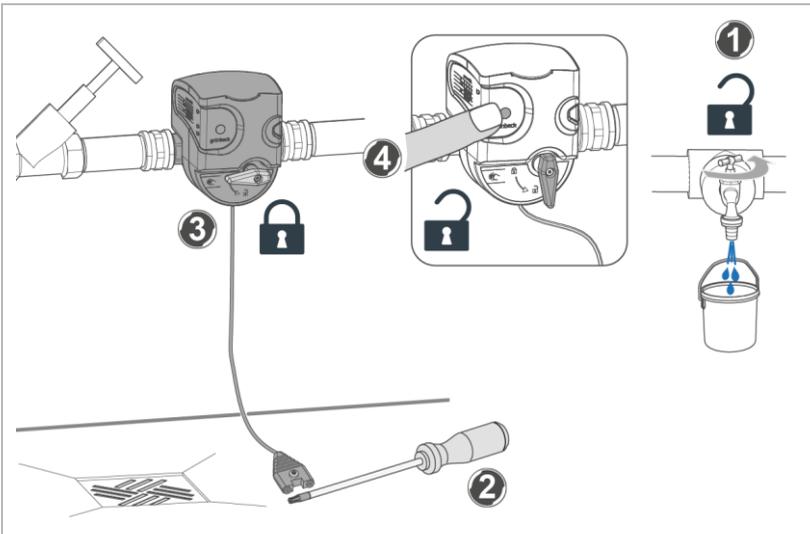
3. Insert the battery compartment into the protectliQ.
 - » The valve opens automatically.



4. Close the lid until it engages.

6.2 Checking the product

► Perform a function test.

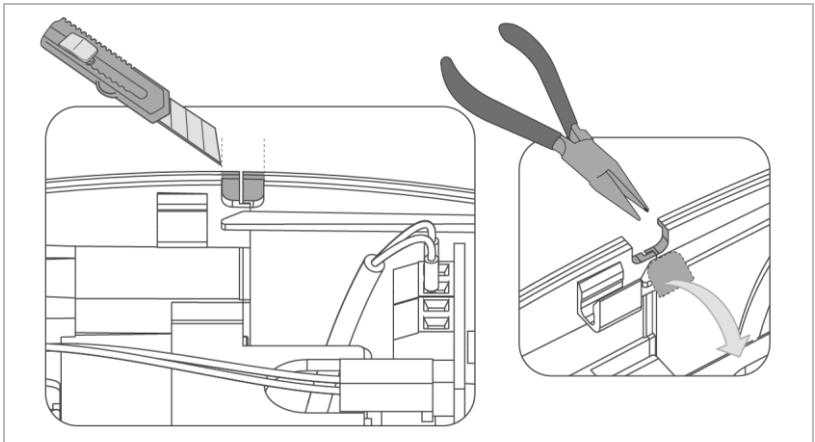


1. Open a water withdrawal point.

2. Immerse the water sensor in water or alternatively bridge it with a metallic object.
3. Check whether the protectliQ shuts the valve.
 - » The protectliQ is tight if, following a short pressure relief, no water is flowing.
4. Dry the contacts and press the operating button.
 - » The protectliQ opens the valve and the water supply.

6.2.1 Connecting the plug-in power supply unit/second water sensor (optional)

If a plug-in power supply unit or a second water sensor is connected, the housing of the protectliQ needs to be prepared for the corresponding cable routing.



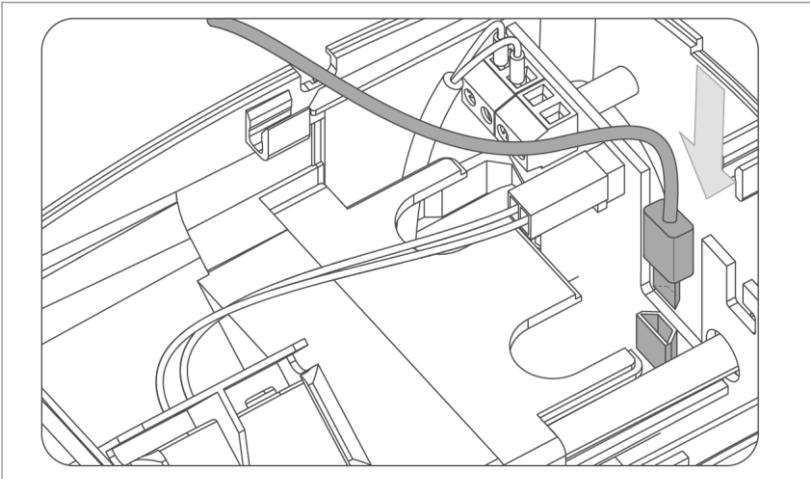
- Carefully cut and break out the recess on the side of the housing.

Connecting the plug-in power supply unit

NOTE

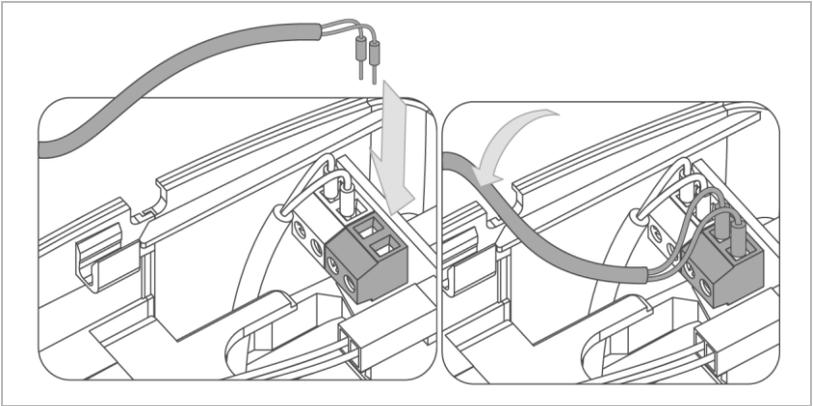
If the power supply is interrupted the function of the protectliQ is not guaranteed.

- If the battery compartment is unplugged the proper function of the protectliQ is not possible.
- ▶ Keep the battery compartment with the inserted batteries connected.

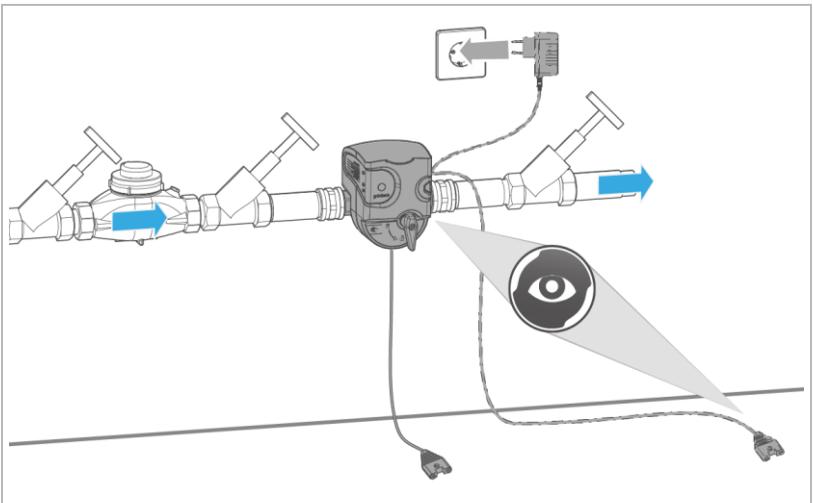


1. Plug the Micro-USB cable into the USB interface.
2. Check whether the battery compartment is connected.

Connecting the second water sensor



- ▶ Connect the second water sensor to the free screw-type terminal.



- ▶ Repeat the functional check for an additionally connected water sensor.
- ▶ If available insert the plug-in power supply unit.



Caution

Water sensor pipe was laid unsecured in roadways

- Stumbling, falling
- ▶ Check whether the pipe and the water sensor have been positioned in a suitable place and, if necessary, secured against being torn off.
- » The protectliQ is ready for operation.

6.3 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.

6.3.1 Disposal of packaging

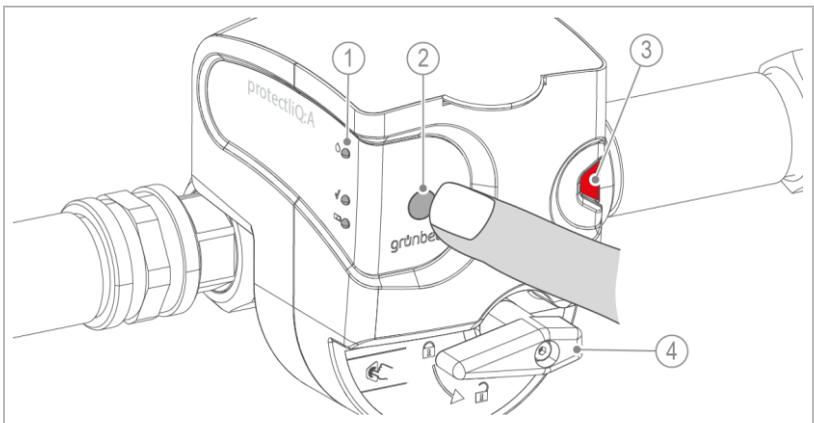
- ▶ Dispose of packaging material as soon as it is no longer needed (see chapter 11.2).

7 Operation/Handling



▶ Do not step on the pipe and the water sensor.

7.1 Operating elements and indicators



Designation		Designation	
1	LED	3	Release for hand lever
2	Operating key	4	Hand lever

LED signal		Explanation
	 orange	Leak • Flashes if there is moisture at the water sensor.
	 green	Battery ok • Shortly lights up upon pressing the operating button when the battery is supplying power.

LED signal		Explanation
	 red	Battery empty <ul style="list-style-type: none">• Flashes and buzzes 4 weeks before battery life expires.• By means of the operating button, the buzzer can be muted for 24 hours.• If the battery is not changed, the valve closes the water pipe. The control unit then switches off.

7.2 Automatic operation

If the water sensor detects a leak, the valve is closed automatically.

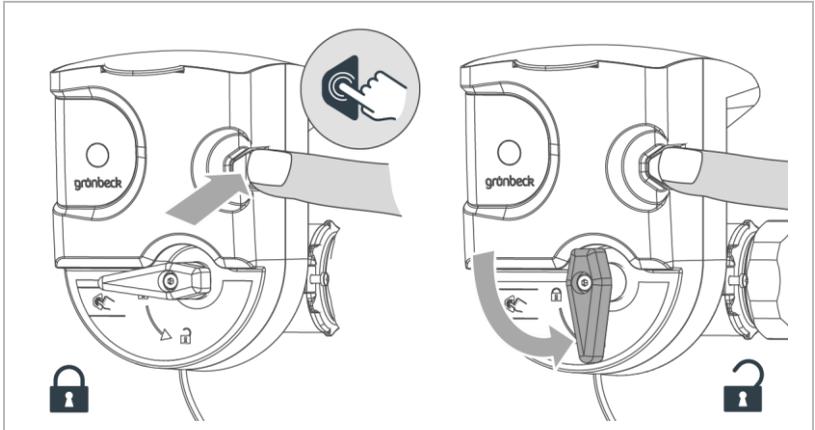
1. Eliminate leaks and dry the water sensor.
2. Press the operating button in order to reopen the valve.

7.3 Manual operation

When using the manual operation, the valve can be opened and closed manually.



When the batteries of the protectliQ are flat, the valve closes automatically. In order to keep the water supply running despite flat batteries, you can reopen the valve manually.



1. Press and hold the release (red button).
2. Turn the hand lever firmly by 90° into the vertical position.

8 Maintenance and repair

Maintenance and repair include 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). These intervals are subject to the actual conditions such as: water condition, degree of impurities, environmental impacts, consumption, etc.

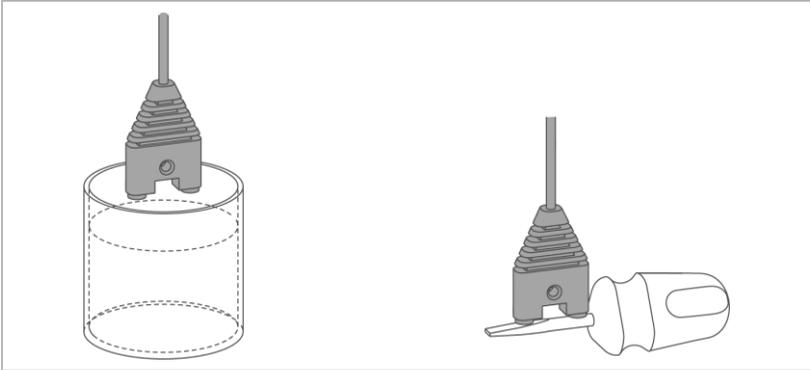
The interval table below shows the minimum intervals for the activities to be carried out.

Task	Interval	Activities
Inspection	2 months	<ul style="list-style-type: none"> • Visual/function test
Maintenance	annually	<ul style="list-style-type: none"> • Check for leaks • Check plug-in power supply unit with mains cable • Check water sensor • Perform manual operation
Repair	5 years	<ul style="list-style-type: none"> • Recommendation: replace flat seal

8.3 Inspection

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

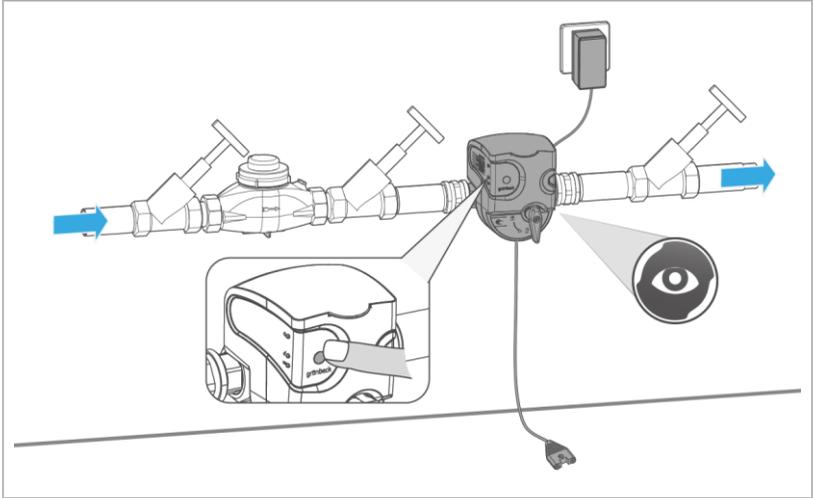
- ▶ Carry out an inspection at least every 2 months.



1. Immerse the water sensor in water or alternatively bridge it with a metallic object.
 - » The protectliQ is working if it closes the valve of the water supply.
2. Check the tightness of the valve at a withdrawal point.
 - » The protectliQ is tight if, following a short pressure relief, no water is flowing.
3. Dry the contacts of the water sensor.
4. Press the operating button.
 - » The protectliQ opens the valve.
 - » The water supply is released.
- ▶ Repeat steps 1 and 2 if you have multiple water sensors connected.

8.4 Maintenance

- Carry out the maintenance at least once a year.



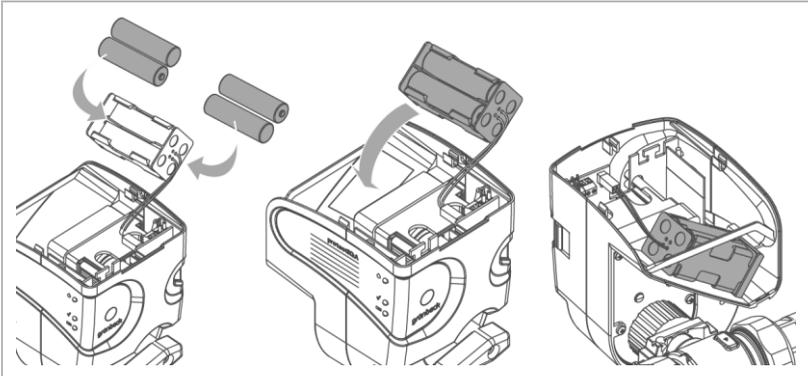
1. Check the protectliQ and the connections for leaks.
2. Check whether the batteries provide power.
Replace the batteries if necessary.
3. Check the plug-in power supply unit and the mains cable for damage.
4. Check the status of the water sensor.
Clean the water sensor, if necessary.
5. Check the water sensor for function.
6. Close and open the valve manually.
7. Enter the performed maintenance in the operation log (see chapter 13).

8.4.1 Changing the batteries

NOTE

Do not insert wrong batteries or accumulators.

- Functional failure of the protectliQ due to the use of unsuitable batteries or accumulators.
- ▶ Only use batteries of the same type.
- ▶ Do not insert accumulators.



1. Pull the lid off upwards.
2. Remove the flat batteries from the battery compartment.
3. Insert the new batteries (of the same type) into the battery compartment.
 - » The ball valve opens automatically.
4. Insert the battery compartment into the housing.
5. Close the lid.
6. Put the protectliQ into operation again (see chapter 6.2).

8.5 Consumables

Product	Quantity	Order no.
Mignon AA batteries (1.5 V)	1 piece	93815605e

8.6 Spare parts

For an overview of the spare parts, refer to our spare parts catalogue at www.gruenbeck.com. You can obtain the spare parts from your local Grünbeck representative.

8.7 Wearing parts



Wearing parts must be replaced by qualified specialists only.

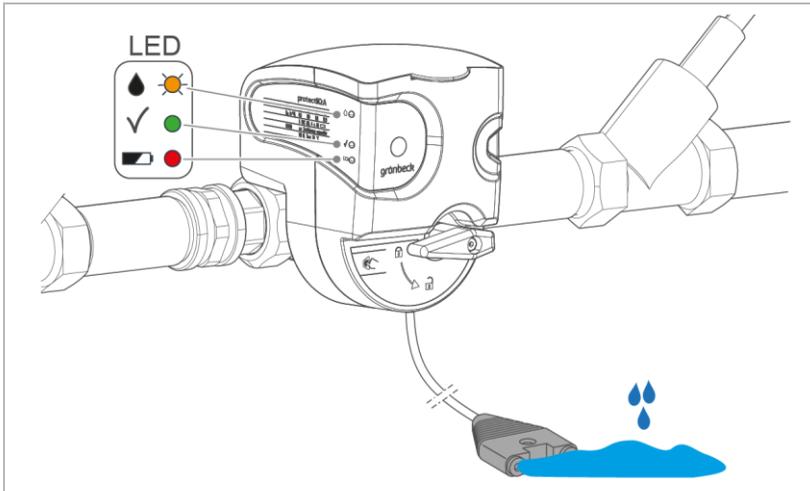
Wearing parts are listed below:

- Seals

9 Troubleshooting

The protectliQ indicates faults by means of the LEDs.

9.1 Messages



LED Signal/Error	Explanation	Remedy
 Red LED is flashing: buzzing sound is emitted	Batteries are almost flat	<ul style="list-style-type: none"> ▶ Change the batteries within the next 4 weeks
 Orange LED is flashing	no water flow <ul style="list-style-type: none"> • Moisture at the water sensor • The ball valve is closed. 	<ul style="list-style-type: none"> ▶ Check water sensor ▶ Eliminate leaks and dry the contacts ▶ Press the operating key
No water flow, protectliQ does not react (no function)	Batteries are completely flat <ul style="list-style-type: none"> • The ball valve is closed. 	<ul style="list-style-type: none"> ▶ Replace the batteries immediately ▶ Put protectliQ into operation again

1. Eliminate the fault.
2. Acknowledge the fault.
3. Check the product for function.



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



The product is a safety device to prevent water damages and therefore shouldn't be shut off.

10.1 Temporary shutdown

If you wish to temporarily shut down your product, proceed as follows:

1. Shut the ball valve manually (see chapter 7.3).
2. Remove the plug-in power supply unit, if available.
3. Remove the batteries from the battery compartment (see chapter 8.4.1).
 - » The water supply is blocked off.
 - » The protectliQ is out of operation.

10.2 Restart/recommissioning

- ▶ Put the product into operation again (see chapter 6).

11 Dismantling and disposal

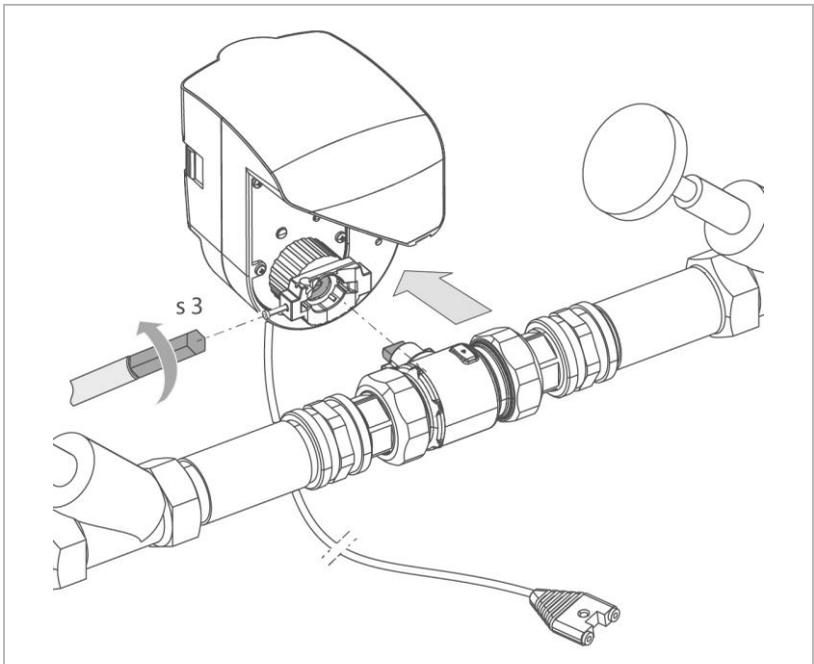
11.1 Dismantling



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

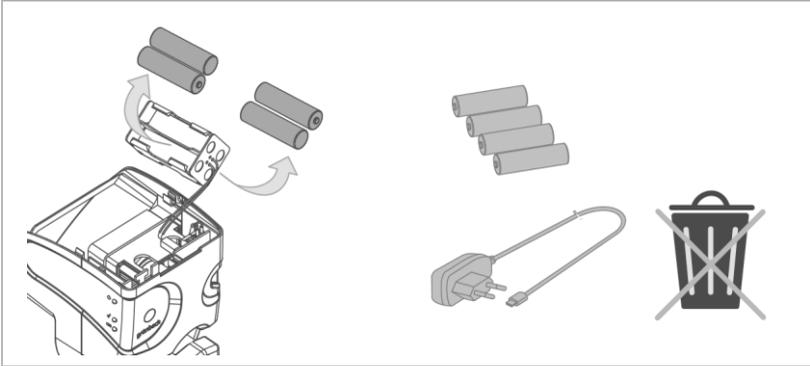
► Have this work performed by qualified specialists only.

1. Shut the ball valve manually (see chapter 7.3).
 - » The water supply is blocked off.
2. Remove the water sensor.
3. Remove the plug-in power supply unit, if available.



4. Loosen the fixing screw at the adapter.
5. Pull the protectliQ off the ball valve.

Dismantling of batteries/plug-in power supply unit



1. Remove the batteries from the battery compartment in the housing.
2. Remove the plug-in power supply unit, if available.

11.2 Disposal

- Obey the applicable national regulations.

Disposal of batteries//plug-in power supply unit

- Take the batteries and the plug-in power supply unit to the collection point for electrical and electronic products.

Packaging

- ▶ Dispose of the packaging in an environmentally sound manner.

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.

Product



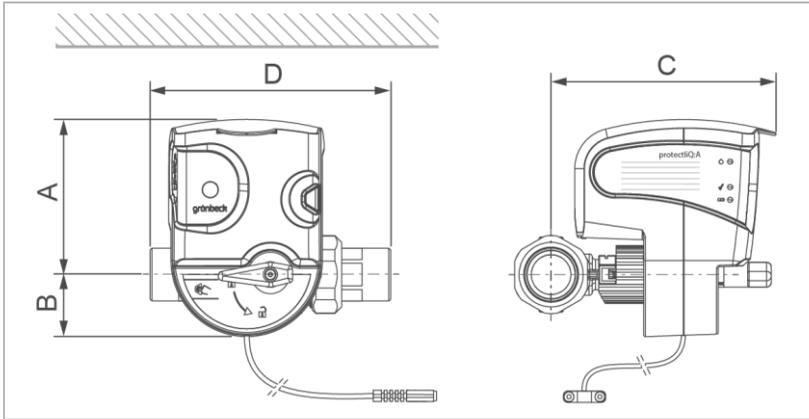
If this symbol (crossed-out wheellie bin) is on the product, this product or its electrical and electronic components must not be disposed of as household waste.

- ▶ 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.

12 Technical specifications



Dimensions and weight		A20	A25	A32	A40	
A	Height up to centre of connection	mm	100			
B	Depth up to centre of connection	mm	40			
C	Projection exceeding centre	mm	143			
D	Installation length with/without screw connection	mm	165/70	152/70	251/160	283/160
	Operating weight	kg	~ 1.5	~ 1.5	~ 2.5	~ 3.0

Connection data		A20	A25	A32	A40
Nominal connection diameter		DN 20	DN 25	DN 32	DN 40
Nominal pressure		PN 16			
Nominal flow Q_n	m ³ /h	6.5	8	9	12
Pressure loss at nominal flow	bar	0.1	0.1	0.2	0.3
Battery type of control unit		4x Mignon AA 1.5 V			
Power supply of control unit (optional plug-in power supply unit)	VDC	5			
Current consumption plug-in power supply unit	A	≤ 1			
Power supply (battery-only operation)	VDC	6			
Current consumption (battery-only operation) when valve opens/closes	A	≤ 0.2			
Protection/protection class		IP 42/□			
General data		A20	A25	A32	A40
Conductivity of leaking water		at least 20 µS/cm			
Water temperature	°C	5 – 30			
Ambient temperature	°C	5 – 40			
DVGW registration number		NW-6350CU0139			
ÜA registration number <i>The Office of the Vienna Provincial Government – City of Vienna</i>		R-15.2.3-21-17496			
Order no.		126 400	126 405	126 410	126 415

13 Operation log



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

Safety device protectliQ:A _____

Serial no.: _____

13.1 Start-up/Commissioning log

Customer	
Name	
Address	
Installation/Accessories	
Floor drain present	<input type="checkbox"/> yes <input type="checkbox"/> No
Plug-in power supply unit	<input type="checkbox"/> Yes <input type="checkbox"/> No
Further water sensor	<input type="checkbox"/> Yes <input type="checkbox"/> No
Operating values	
Water pressure	bar
Residential water meter reading	m ³
Start-up	
Company	
Service technician	
Work time certificate (no.)	
Date/signature	

Maintenance no.: _____



Confirm the tests with **OK** or record any repairs carried out.

Maintenance work	Repair	OK
Product checked for leaks		<input type="checkbox"/>
Manual operation performed (Close valve manually)		<input type="checkbox"/>
Check batteries for performance		<input type="checkbox"/>
Check plug-in power supply unit and mains cable for damage		<input type="checkbox"/>
Check water sensor for function		<input type="checkbox"/>

Other remarks

Carried out by

Company	
Service technician	
Date	

EU Declaration of Conformity

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



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.

Safety device protectliQ:A20, A25, A32, A40

Serial no.: Refer to label with serial number (in the housing)

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

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

The following harmonised standards have been applied:

- DIN EN 61000-6-2:2006-03
- DIN EN 61000-6-3:2011-09
- DIN EN 60335-1:2012-10

The following national standards and regulations have been applied:

- DVGW VP 638:2004-11

Responsible for documentation: Dipl.-Ing. (FH) Markus Pöpperl

Manufacturer: Grünbeck Wasseraufbereitung GmbH
Josef-Grünbeck-Str. 1
89420 Hoechststaedt/Germany

Hoechststaedt, September 2019

A handwritten signature in black ink, appearing to read 'M. Pöpperl', written in a cursive style.

Dipl. Ing. (FH) Markus Pöpperl
Head of Technical Product Design

Impressum

Technische Dokumentation

Bei Fragen und Anregungen zu dieser Betriebsanleitung wenden Sie sich bitte direkt an die Abteilung Technische Dokumentation bei Grünbeck Wasseraufbereitung GmbH

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