

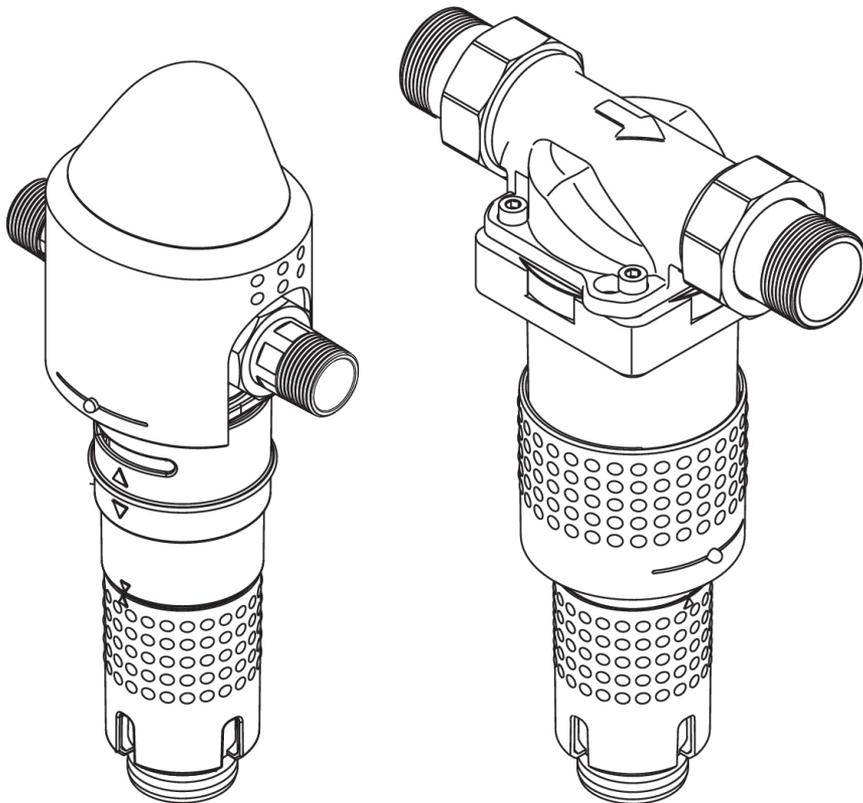
# Installation and operating instructions

## JUDO SPEEDY-LONGLIFE

Backwash protective filter  $\frac{3}{4}$ " - 2"

Valid for: EU countries and Switzerland

Language: English



Read before use and store!



**judo**®

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**Queries, orders, customer service**

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Dear customers,

**Thank you for the confidence you have shown in us by purchasing this product. You have purchased a state-of-the-art device. It has been carefully checked prior to delivery. Nevertheless, if difficulties occur, please contact the closest customer service (see chapter Customer service).**

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These installation and operating instructions are intended for both installers, who are in charge of installing, maintaining or repairing the device, and for the operators of the device.

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# 1 Safety

These operating instructions must always be available at the place of use of the device.

## 1.1 Intended use

The device is for the

- Filtration

of drinking water in domestic water piping and for residential, commercial and industrial use. It removes coarse and fine-grained particles from the drinking water, which are larger or equal to the mesh size of the filter, in order to prevent

- pipe damage caused by corrosion
- malfunctions of fittings or control and regulating devices caused by foreign bodies.

The device can be installed in all commercially available drinking water pipes. Both installation and use of the device are subject to the applicable national regulations.

 Particles that are smaller than the mesh size of the filter supplied and materials causing cloudiness cannot be filtered out of the water.

## 1.2 Application limits

### 1.2.1 Water quality

The water to be filtered must comply with the European Drinking Water Directive (98/83/EC). Before using the device with water that does not comply with this Directive, it is essential to consult the manufacturer.

### 1.2.2 Water pressure



#### CAUTION

The water pressure must not exceed 16 bar input pressure. The device must not be installed if the mains pressure is above 16 bar (even for a short time)!

Nominal pressure	PN 16
Operating pressure	1.5 bar - 16 bar

The water pressure must not fall below 1.5 bar as otherwise backwashing can be impaired!



Starting at an operating pressure of 10 bar, increased wear can be expected!

### 1.2.3 Water and ambient temperature

The filter is suitable for use in cold drinking water up to a maximum water and ambient temperature of 30 °C.

## 1.3 Safety instructions

### 1.3.1 Electrical danger



#### Risk of electric shock

**No electrical wiring or equipment that is not splash-proof may run or be stored below the device. Electrical devices/ equipment located in the vicinity of the device must be splash-proof or comply with the legal regulations for wet rooms.**

### 1.3.2 Warning of property damage



#### WARNING

Risk of water damage or damage to property

The device may only be installed by qualified technical personnel.

The installation room must be dry and free from frost.

The ambient temperature must not exceed 30 °C! In higher temperatures or direct sunlight, material damage may occur up to and including breakage of device parts.

An adequately sized wastewater connection (e.g. floor drain) in compliance with DIN 1986 must be provided.

In order to ensure safe drinking water hygiene, a free discharge of the wastewater acc. to DIN EN 1717 must be ensured.

The pipe must be able to safely support the device (weight: see chapter 7). If necessary, the pipes must be provided with additional fastenings or support.

If no bypass valve is installed, a shut-off valve must be installed upstream and downstream of the unit in order to interrupt the water supply during installation, maintenance, repair or malfunction of the device.

Install the device in a vertical position ( $\pm 5^\circ$ ); the connection for waste water from backwashing must be directed downwards. Otherwise, water may escape and cause water damage.

For the installation of the device in domestic water piping, only use the supplied built-in rotary flange (see chapter 3.2).

The flange surface of the rotary flange fitting must be in horizontal position!

The rotary flange fitting must be fitted so that it is free from mechanical stress or strain. Otherwise mechanical damage to the pipe or the rotary flange fitting up to and including breaks can result.

For proper sealing the profile of the profile flange seal must point towards the rotary flange fitting (see Figure 2).

Only operate the device in a technically faultless condition:

- Check for damage prior to installation.
- Immediately have any malfunctions in operation rectified by qualified technical personnel.

Persons who, due to their physical, sensory or mental abilities or their inexperience or lack of knowledge, are unable to operate the device safely may not operate it without supervision or instruction from a responsible person.

Regular backwashing of the device is required to ensure safe drinking water hygiene (see chapter 4.1.1).

Before carrying out a backwash, ensure that the wastewater connection is functional.

At the end of the backwashing process, turn the handwheel until it engages so that no more backwash water escapes. Otherwise, water may constantly escape and cause water damage.

Do not use household cleaning agents to clean the outside of the device, but only use clear water to avoid embrittlement of the plastic.

The device may only be repaired by qualified technical personnel.

Only use original spare parts for repairs.

Before performing work on the device that goes beyond pure operational use, the device must be depressurised! If this is ignored, the result may be uncon-

controlled escape of water resulting in water damage to the building/home.

If the device is removed due to an interruption of operation:

- Protect the flange surfaces against damage to ensure proper sealing.
- Protect the device from dirt so as not to impair drinking water hygiene.
- Store the device in a frost-free place to prevent damage caused by freezing water and leakage.

Unauthorised conversions and changes are forbidden for safety reasons. These can impair the functioning of the device, leading to leaks and, in the worse case scenario, to bursting of the device.

## 1.4 Symbols used

The safety instructions contained in these operating instructions are labelled with the following symbols:

	Indication of existing dangers
	Warning of electric voltage
	User tips and other information

Instructions attached directly to the device, e.g.:

- Direction of flow (arrow)
- Type label
- Cleaning information

must be observed and maintained in legible condition.

## 1.5 Units used

Unit	Conversion
bar	1 bar = 10 <sup>5</sup> Pa = 0.1 N/mm <sup>2</sup>
¾"	DN 20
1"	DN 25
1¼"	DN 32
1½"	DN 40
2"	DN 50

## 2 Product information

### 2.1 Scope of supply

- Backwash protective filter, completely preassembled
- Rotary flange fitting
- Installation and operating instructions

### 2.2 Function description

Unfiltered water flows into the device through the rotary flange. The water flows from the outside to the inside through a cylindrical sieve insert. Dirt particles remain on the sieve fabric of the sieve insert. The adhering residues are visible from outside through the transparent filter bowl.

SPEEDY-LONGLIFE ¾" - 1¼": The filter bowl is visible through the viewing slot of the UV protection screen. The UV protection screen can be moved downwards to check the contamination.

Subsequently the filtered water exits the device again via the rotary flange fitting.

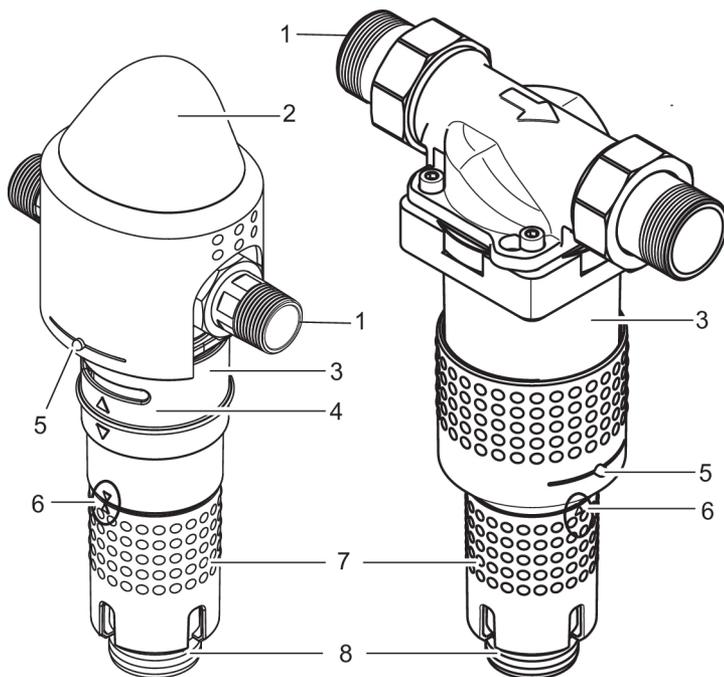


Fig. 1: Functional description

- 1 Rotary flange fitting
- 2 Cover (only JSY-LF ¾" - 1¼")
- 3 Filter bowl
- 4 UV protection screen (only JSY-LF ¾" - 1¼")
- 5 Display button for the next scheduled backwash
- 6 Arrow markings to indicate the engagement position after backwashing
- 7 Handwheel for backwashing actuation
- 8 Connection for waste water from backwashing

## 2.3 Materials used

The materials used are resistant to the physical, chemical and corrosive loads expected to be encountered in drinking water. They meet the requirements specified in the following standards:

- DIN EN 13443-1
- DIN 19628
- DIN 50930-6

All materials of components in contact with drinking water are hygienically and phys-

iologically harmless and fulfill the requirements and directives of the Umweltbundesamt (UBA). Plastics fulfil the requirements of DIN EN 16421.

## 2.4 Approval marks



The device complies with the technical regulations for drinking water installation according to DIN EN 806ff. and the national supplement DIN 1988ff. as well as DIN EN 1717.

It has been tested and certified by the DVGW (Deutsche Vereinigung des Gas- und Wasserfaches e. V. - Technisch-wissenschaftlicher Verein) in accordance with the requirements

- of the DIN EN 13443-1 and DIN 19628 for mechanically active filters.

The device bears the DIN-DVGW mark as proof of certification.

## 3 Installation



### CAUTION

The device may only be installed by qualified technical personnel.

Installation of the device upstream of the domestic water meter is forbidden.

### 3.1 Conditions



### CAUTION

**Risk of property damage or water damage!**

The pipe must be able to safely support the device (weight: see chapter 7). If necessary, the pipes must be provided with additional fastenings or support.

To ensure convenient operation and maintenance of the device, always adhere to the specified clearances in chapter 3.4.1.

### 3.1.1 Requirements for the place of installation



#### CAUTION

The installation room must be dry and free from frost.

The ambient temperature must not exceed 30 °C! In higher temperatures or direct sunlight, material damage may occur up to and including breakage of device parts.

An adequately sized waste water connection (e.g. floor drain) in compliance with DIN 1986 must be provided.

### 3.2 Installation of the rotary flange fitting



#### CAUTION

The flange surface of the rotary flange fitting must be upright!

The rotary flange fitting must be fitted so that it is free from mechanical stress or strain. Otherwise mechanical damage to the pipe or the rotary flange fitting up to and including breaks can result.

The built-in rotary flange serves as a connecting element between the domestic water installation and the device.

It consists of:

- rotary flange fitting
- profile flange seal
- two union nuts
- two pipe sockets
- two flat seals.

**Attention:** Install the built-in rotary flange in the flow direction! This is indicated by an arrow integral with the casting.

**i** If the installation is twisted, back-washing the device is not possible.

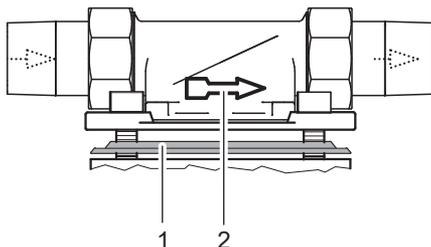


Fig. 2: Rotary flange fitting

- 1 Profile flange seal
- 2 Flow direction arrow

#### Procedure:

1. Pull the flange cover upwards (only for JSY-LF  $\frac{3}{4}$ " -  $1\frac{1}{4}$ ").
2. Loosen the two union nuts of the built-in rotary flange and remove them with the pipe sockets from the built-in rotary flange fitting.
3. Fit the two pipe sockets with union nut into the pipeline.

### 3.3 Installation of the device



#### CAUTION

If no bypass valve is installed, a shut-off valve must be installed upstream and downstream of the unit in order to interrupt the water supply during installation, maintenance, repair or malfunction of the device.

Install the device in a vertical position ( $\pm 5^\circ$ ); the connection for waste water from backwashing must be directed downwards. Otherwise, water may escape and cause water damage.

For the installation of the device in domestic water piping, only use the supplied built-in rotary flange (see chapter 3.2).

The flange surface of the rotary flange fitting must be in horizontal position!

For proper sealing the profile of the profile flange seal must point towards the rotary flange fitting (see Figure 2: Rotary flange fitting, page 9).

1. Position the device with the rotary flange fitting between the pipe sockets and insert the flat gaskets on both sides.
2. Screw the device with the union nuts on both sides.
3. Place the flange cover back on (only for JSY-LF  $\frac{3}{4}$ " -  $1\frac{1}{4}$ ").

### 3.4 Draining of the backwash water



#### CAUTION

An adequately sized waste water connection (e.g. floor drain) in compliance with DIN 1986 must be provided.

**In order to ensure safe drinking water hygiene, a free discharge of the waste water acc. to DIN EN 1717 must be ensured.**

The drain must be large enough so that all of the wastewater can be drained simultaneously.

If a wastewater connection directly beneath the device is not possible, the backwash water can be drained away via a hose or a pipe that is connected from the backwashing water valve over a few meters to the closest wastewater connection. The dimensioning of this pipe must correspond to the backwashing water valve.

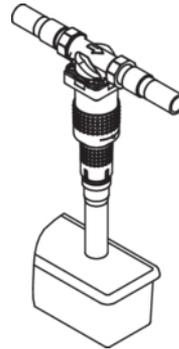
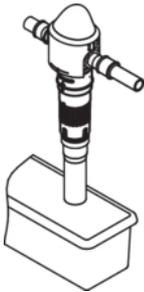
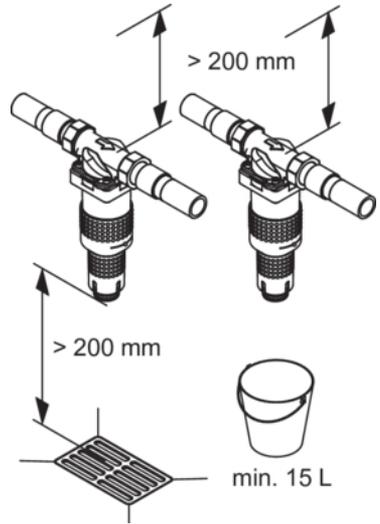
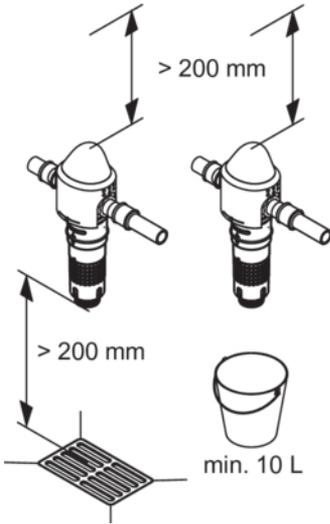
#### Attention:

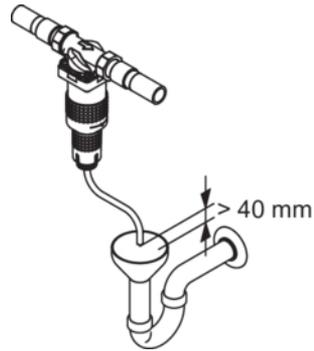
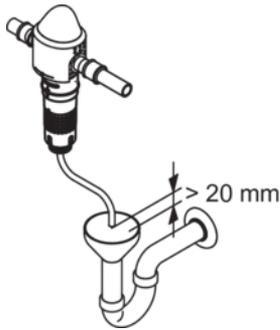
- The hose must run without kinks. The hose or pipe must be laid with a continuous downward slope to the wastewater connection.
- If a continuous slope to the wastewater connection cannot be realized at the installation site, a lifting unit must be installed to convey the backwash water.

#### If a bucket is used to drain off the backwash water:

- **Attention:** If the mains pressure is high, water may spray out of the bucket. Protect objects near the bucket from water damage!
- Carry out the backwashing quickly and finish the backwashing process as soon as the bucket is half full. Otherwise the bucket could overflow.

### 3.4.1 Drainage options for the backwash water





### 3.5 Commissioning

Prior to initial commissioning (or to commissioning after maintenance work) fill the installed device with water and vent:

1. Open the upstream shut-off valve to fill the device with water. The device is now under mains pressure.
  2. **Attention:** Carry out a backwashing immediately so that the trapped air can escape (see chapter 4.1.2)! This prevents damage to the installation by water hammer pressure surges.
- After backwashing, the device is vented and ready for operation.

## 4 Operation

### 4.1 Cleaning of the sieve insert (backwashing)

A regular cleaning process is necessary to remove the residues from the sieve fabric of the device. This process is called **backwashing**.

Suction pipes are provided for backwashing, which rotate around the sieve fabric of the fine filter. The backwashing valve opens on the bottom side of the device. By reversing the water flow from inside to outside, deposits on the sieve fabric are carried away and rinsed out with the back-

wash water. The suction pipes also clean the inside of the transparent filter bowl with wiper lips during their movement.

The degree of contamination and cleaning process can be observed from the outside.



The device is backwashed with filtered water. The filtered water supply of the domestic installation remains intact during the backwashing process. No dirty water can reach the pure water side during the backwashing.

#### 4.1.1 Backwashing interval

If cleaning is not performed soon enough, the result may be damage to the sieve insert. Large quantities of filtered particles can deform the sieve fabric and in extreme case lead to tearing of the sieve fabric. In addition, larger deposit quantities can impair the backwashing function mechanically.

According to DIN EN 13443-1 backwashing the device is required at the latest every six months.

**The manufacturer recommends a backwashing:**

- at least every 2 months
- if the water pressure drops
- if the filter is visibly dirty

Experience has shown that new installations in the early stages of installation lead to increased dirt deposits. In this case, a more frequent backwashing is necessary.

#### 4.1.2 Backwashing



##### **WARNING**

**Persons who, due to their physical, sensory or mental abilities or their inexperience or lack of knowledge, are unable to operate the device safely may not operate it without supervision or instruction from a responsible person.**

**Before carrying out a backwash, ensure that the wastewater connection is functional.**

**At the end of the backwashing process, turn the handwheel until it engages so that no more backwash water escapes. Otherwise, water may constantly escape and cause water damage.**

1. Turn the handwheel in any direction by a full turn. **Backwashing water escapes.**
  2. Turn the handwheel until it clicks into place. Ensure that no water escapes.
- The backwashing process is completed (see chapter 4.1).

#### 4.1.3 Due date of backwashing

After backwashing, adjust the indication button on the front of the device to the next backwashing due date, as a reminder.

The JU-Control app, which is available free of charge, reminds you on a mobile device (mobile phone, tablet, etc.) when the device needs to be backwashed.

Prerequisite: Download the JU-Control App and create a user account.

##### **This is how it is done:**

1. Download the JU-Control app from the Google Playstore (Android) or the App Store (iOS) and open it on your mobile device.
2. Create a user account (also possible in advance via the website <https://ju-control.app>).
3. Accept the data protection declaration and click on the confirmation link in the e-mail that follows.
4. In the app: Create a location (save location name and optional city and street).
5. Scan the QR code on the unit with the QR code scanner of the JU-Control app.

→ The device is added. A reminder to backwash will be automatically sent by e-mail, SMS or push message, according to the settings and the information in the registration data of the user account.

#### 4.2 Conversions, changes



##### **WARNING**

**Unauthorised conversions and changes are forbidden for safety reasons. These can impair the functioning of the device, leading to leaks and, in the worse case scenario, to bursting of the device.**

### 4.3 Maintenance, repair, spare parts



#### CAUTION

The device may only be repaired by qualified technical personnel.

Only use original spare parts for repairs.

**Before performing work on the device that goes beyond pure operational use, the device must be depressurised! If this is ignored, the result may be uncontrolled egress of water resulting in water damage to the building/home.**

After unscrewing the device from the built-in rotary flange for maintenance or repair, leakage might occur if not properly re-attached. For reattachment, observe the instructions for mounting the device (see 3.3).

### 4.4 Temporary removal of the device



#### WARNING

If the device is removed due to an interruption of operation:

- **Protect the flange surfaces against damage to ensure proper sealing.**
- **Protect the device from dirt so as not to impair drinking water hygiene.**
- **Store the device in a frost-free place to prevent damage caused by freezing water and leakage.**

When recommissioning the device, proceed as with a new installation.

## 5 Fault

Fault	Possible cause	Remedy
Backwash water continues running.	Backwash valve is not fully closed.	Repeat backwashing and then turn the handwheel fully home until it engages.
	Dirt in backwash valve.	
Water flow decreases.	Sieve clogged.	Perform backwashing.
There are leaks in the filter bowl.	Damaged seals.	Inform the installer or the closest customer service point.
Filter bowl becomes clouded.	Filter bowl was exposed to high temperatures or solvents.	<ul style="list-style-type: none"> <li>Inform the installer or the closest customer service point.</li> <li>If water escapes, close shut-off valves. Have the filter bowl replaced immediately.</li> </ul>
Hairline cracks on the filter bowl.		

Table 1: Troubleshooting

## 6 Servicing

### 6.1 Cleaning



#### CAUTION

**Do not use household cleaning agents to clean the outside of the device, but only use clear water to avoid embrittlement of the plastic.**

### 6.2 Warranty and maintenance

Prerequisite for obtaining the statutory warranty claim is regular backwashing (see chapter 4.1). The DIN EN 13443-1 prescribes that the backwashing must take place every six months. JUDO however recommends to comply with the information in chapter 4.1.1 Backwashing interval.

To ensure the process operates successfully as long as possible, regular inspection and routine servicing of the device are

essential. Where home automation is concerned, this is governed by DIN EN 806-5.

We recommend the conclusion of a maintenance contract, which is the best way to ensure a good operating function, even beyond the warranty period. The skilled tradesmen or the factory customer service are suitable partners for regular maintenance work and the supply of consumables and wear materials as well as for possible repairs.

## 7 Technical data

Backwash protective filter

JUDO SPEEDY-LONGLIFE

Short name: JSY-LF ¾" - 2"

The water to be filtered must comply with the European Drinking Water Directive.

Information about:	JSY-LF ¾"	JSY-LF 1"	JSY-LF 1¼"	JSY-LF 1½"	JSY-LF 2"
Pipe connection	¾"	1"	1¼"	1½"	2"
Backwashing volume flow <sup>1)</sup>	0,3 L/s	0,3 L/s	0,3 L/s	0,3 L/s	0,3 L/s
Nominal pressure	PN 16	PN 16	PN 16	PN 16	PN 16
Operating pressure	1,5 - 16 bar	1,5 - 16 bar	1,5 - 16 bar	1,5 - 16 bar	1,5 - 16 bar
Rated flow after backwash- ing with 0.2 (0.5) bar pressure loss	3,7 (6,1) m <sup>3</sup> /h	4,4 (7,1) m <sup>3</sup> /h	4,5 (7,3) m <sup>3</sup> /h	7,4 (12,2) m <sup>3</sup> /h	9,2 (15,1) m <sup>3</sup> /h
Mesh size sieve insert	100 µm 0.1 mm	100 µm 0.1 mm	100 µm 0.1 mm	100 µm 0.1 mm	100 µm 0.1 mm
Water temperature and ambi- ent temperature	max. 30 °C	max. 30 °C	max. 30 °C	max. 30 °C	max. 30 °C
Threaded connection accord- ing to	DIN EN 10226-1				
Weight	1,7 kg	1,8 kg	2,2 kg	5,1 kg	5,6 kg
Order no.	8070568	8070569	8070570	8070558	8070559

1) Applies to a fully opened backwash valve and 2 - 3 bar mains pressure.

### 7.1 Accessories

- Automatic Set JAUS (order no. 8170244) for retrofitting the manual unit to an automatic device

## 7.2 Installation dimensions

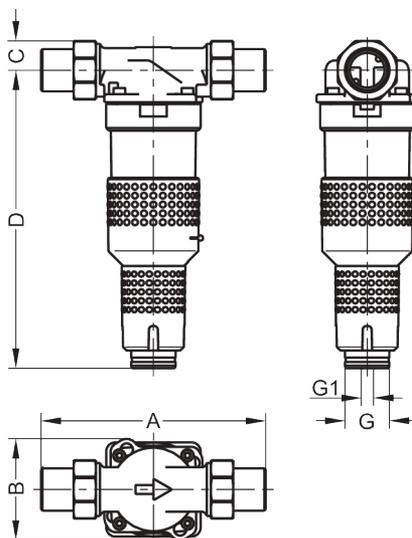
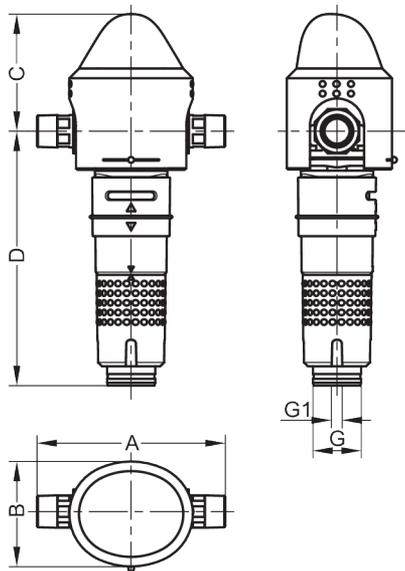


Fig. 3: Installation dimensions JSY-LF 3/4" - 1 1/4"

Fig. 4: Installation dimensions JSY-LF 1 1/2" - 2"

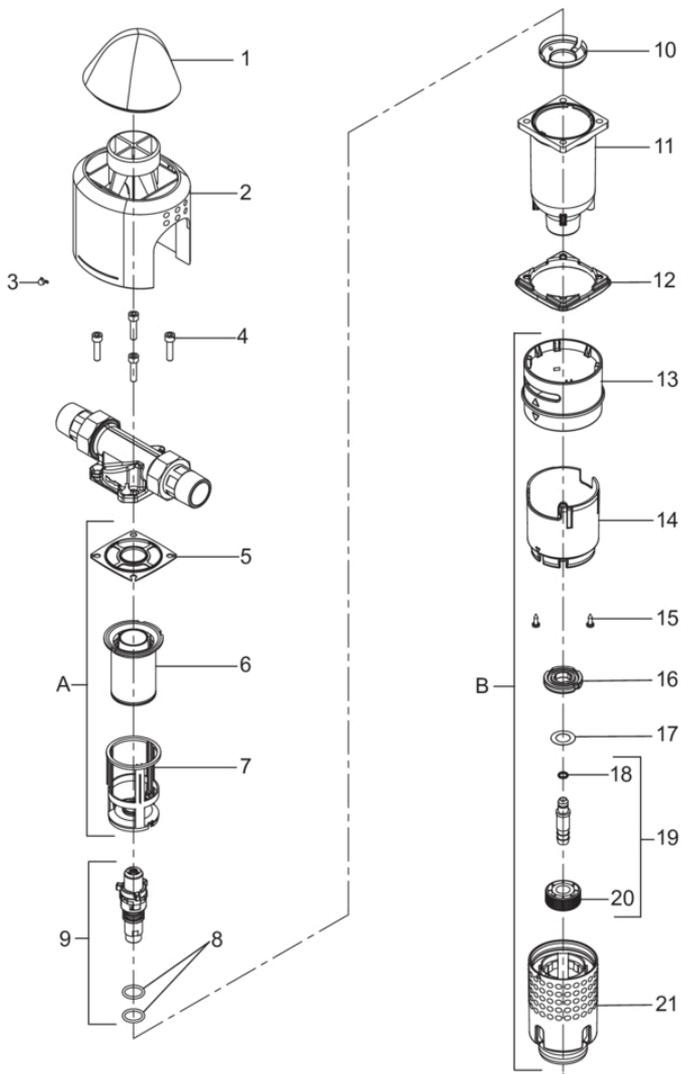
	JSY-LF 3/4"	JSY-LF 1"	JSY-LF 1 1/4"	JSY-LF 1 1/2"	JSY-LF 2"
A	180	195	230	252	280
B	115	115	115	114	114
C	122	122	117	33	40
D	264	264	269	336	344
G	50	50	50	50	50
G1	13	13	13	13	13

Table 2: Dimensions without unit in mm

- A Installation length
- B Device width
- C Height above the pipe middle
- D Height below the pipe middle
- G Waste water nominal diameter
- G1 Waste water nominal diameter (alt.)

### 7.3 Spare parts

JSY-LF ¾" - 1¼"



**Spare parts list JSY-LF ¾" - 1¼"**

Item	Designation	Pcs	Order No.:	AU <sup>1)</sup> / Pcs
A	Wear part set "Sieve insert 0.1 mm, suction pipe and seal" (comprising items 5, 6, 7) ****	1	2990412	111
--	Wear part set "Flush valve und seals" (comprising items 5, 9, 18) ****	1	2170561	73
B	Spare part set "Handwheel" (comprising items 13, 14, 15, 16, 17, 19, 20, 21)	1	2170559	121
1	Cover	1		
2	Flange cover JSY-LF ¾"	1	2070356	51
2	Flange cover JSY-LF 1"	1	2070357	51
2	Flange cover JSY-LF 1¼"	1	2070358	51
3	Display button	1		
4	Hexagon socket head screw M6×30 (set with 4 pcs)	1	2110109	2
5	Profile flange seal	1		
6	Sieve insert	1		
7	Suction pipe	1		
8	O-ring 18×2.5	2		
9	Flush valve preassembled	1		
10	Suction pipe bottom	1		
11	Filter bowl + item 5, 10, 12	1	2170439	135
12	Flange	1		
13	Upper part filter bowl cover	1		
14	Lower part filter bowl cover printed	1		
15	Fillister head self-tapping screw 3.9×13	2		
16	Spacer disc	1		
17	M16 retainer	1		
18	O-ring 6.07×1.3	1		
19	Hose connection piece + item 18, 20	1	2170182	10
20	Union nut	1		

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Technical data

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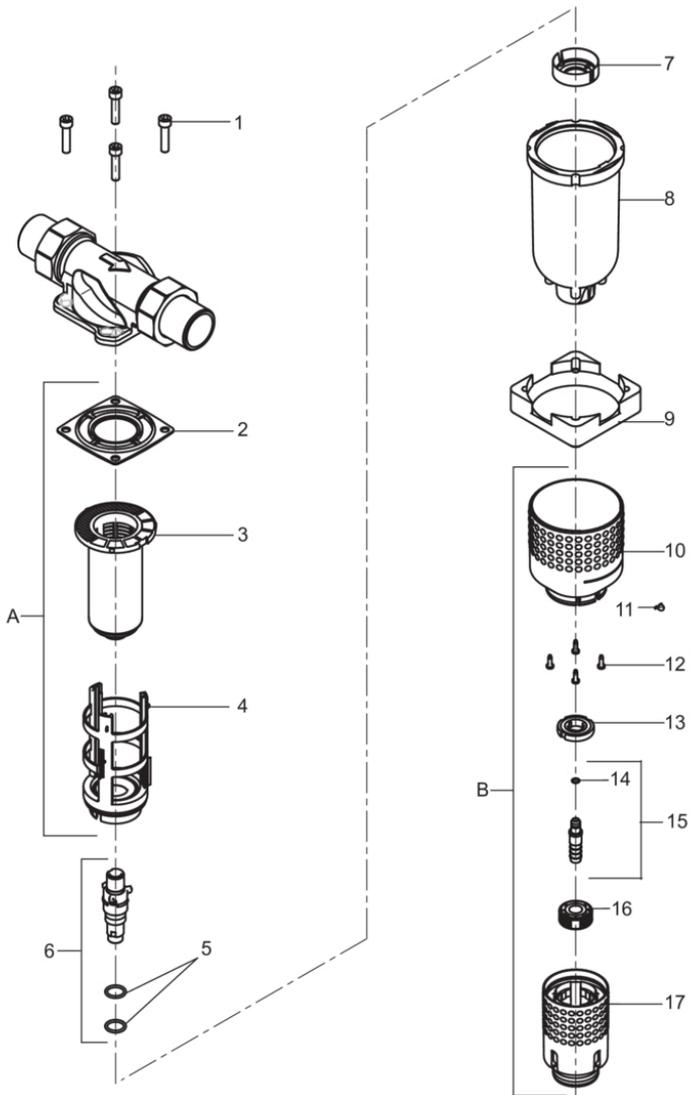
Item	Designation	Pcs	Order No.:	AU <sup>1)</sup> / Pcs
21	Handwheel for backwashing actuation	1		

1) AU = Accounting unit (articles without an accounting unit are only available as part of a set.)

Replacement interval:

\*\*\*\* = 4 years

JSY-LF 1½" - 2"



**Spare parts list JSY-LF 1½" - 2"**

Item	Designation	Pcs	Order No.:	AU <sup>1)</sup> / Pcs
A	Wear part set "Sieve insert 0.1 mm, suction pipe and seal" (comprising items 2, 3, 4) ****	1	2170565	183
--	Wear part set "Flush valve und seals" (comprising items 2, 6, 14) ****	1	2170561	73
B	Spare part set "Handwheel" (comprising items 10, 11, 12, 13, 15, 16, 17)	1	2170569	137
1	Hexagon socket head screw 8×35	4		
2	Profile flange seal	1		
3	Sieve insert	1		
4	Suction pipe pre-installed	1		
5	O-ring 18×2.5	2		
6	Flush valve preassembled	1		
7	Suction pipe bottom	1		
8	Filter bowl + item 2, 7, 9	1	2170575	192
9	Flange	1		
10	Filter bowl cover JSY-LF 1½"	1	2170243	39
10	Filter bowl cover JSY-LF 2"	1	2170244	39
11	Display button	1		
12	Fillister head self-tapping screw 3.9×13	4		
13	Spacer disc	1		
14	O-ring 6.07×1.3	1		
15	Hose connection piece + item 14, 16	1	2170182	10
16	Union nut	1		
17	Handwheel for backwashing actuation	1		

1) AU = Accounting unit (articles without an accounting unit are only available as part of a set.)

Replacement interval: \*\*\*\* = 4 years

## **8 Disposal**

Packaging waste is to be sent to the local recycling system.

To protect environment, old appliances must not be disposed of with household waste. Instead, use the local collection and return points, which are committed to free and environmentally sound disposal.

## 9 Customer service

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