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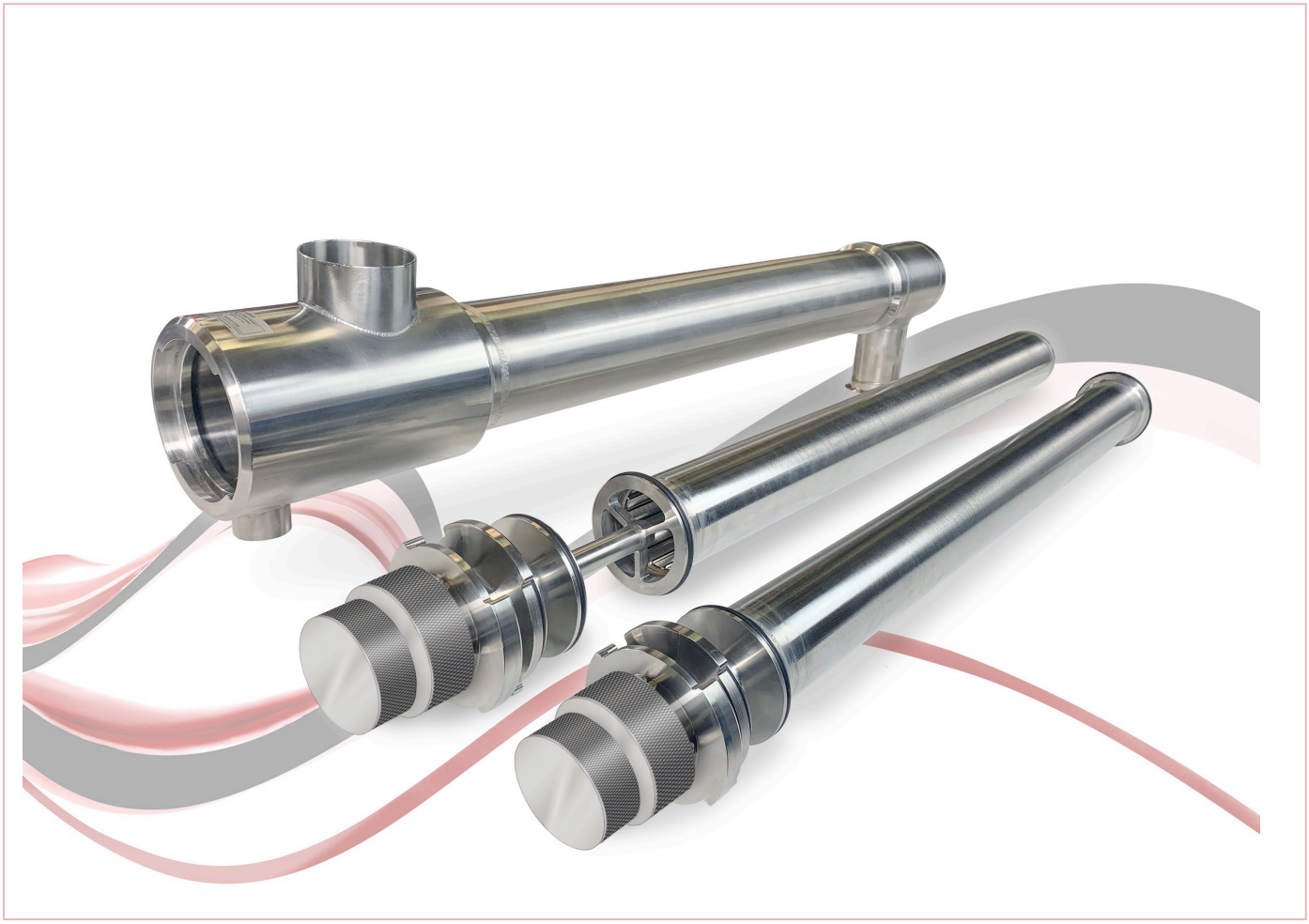
# Operation Manual

# Filter

# “Safe Strainer”

# Hygienic components



| | | | |
|---|---|---|---|
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# 1 Product and manufacturer

## 1.1 Product

The following product is described in these operating instructions:
Filter “Safe Strainer“

## 1.2 Manufacturer

| | |
|---|---|
| Name and address | PROCESSTEC, INC<br>9938 W. Legacy Ave<br>Visalia, CA 93291 |
| | PROCESSTEC<br>GET TOMORROW'S TECHNOLOGY TODAY |
| Telephone | +1 (559) 429-4227 |
| E-Mail | sales@processtec.com |
| Internet | www.processtec.com |

# 2 About this operation manual

To follow the descriptions and recommendations for action in these operating instructions for proper and safe use of the filter.

Keep these operating instructions for later reference until the filter has been disposed of.

## 2.1 Purpose

These operating instructions contain information on the safe, trouble-free, and economical use of the filter.

This information is intended for persons who perform tasks with or in connection with the filter.

The following table provides an overview of people and tasks:

| Person | Task |
|---|---|
| manufacturer | Certain work may only be carried out by the manufacturer's qualified personnel. Other personnel are not authorized to carry out this work. To carry out the work, please contact our customer service. |
| Operator | Operation of the filter after instruction and delegated tasks by the operator |
| Occupational safety specialist | • Carry out risk assessment<br>• Create operating instructions<br>• Instruct people |
| Maintenance personnel | Maintenance of mechanics |
| Disposal companies | Dispose of the filter in a legally compliant, proper and professional manner |

## 2.2 Availability

The operator makes these operating instructions or extracts thereof available to the persons who carry out with or in connection with the filter.

The operator shall keep these operating instructions or extracts thereof at hand in the immediate vicinity of the filter.

When the filter is handed over to another person, the operator shall pass on these operating instructions to this person.

## 2.3 Applicable documents

Components from other manufacturers are installed in filter.

The following table gives an overview of the applicable documents.

| Applicable documents | Manufacturer |
|---|---|
| Drawings / parts lists (e.g. assembly, spare parts, installation drawings, spare parts lists) | PROCESSTEC, INC |
| Data sheets (e.g. components, elastomers, etc.) | PROCESSTEC, INC |
| Manufacturer´s declaration | PROCESSTEC, INC |
| | |

## 2.4 Warnings

These operating instructions contain warnings that warn of residual hazards.

The classification of the warnings depends on the severity of the damage that can occur if the warnings are ignored and recommendations for action are violated.

Signal words and signal colors

Warnings are introduced with one of the following signal words and marked with a corresponding signal color.

| Signal word | Meaning | Signal color |
|---|---|---|
| DANGER | Consequence of non-compliance:<br>Death or serious injury. |  |
| WARNING | Consequence of non-compliance:<br>Death or serious injury possible. |  |
| CAUTION | Consequence of non-compliance:<br>Serious or minor injuries possible. |  |
| ADVICE | Consequence of non-compliance:<br>Property damage or environmental damage possible. |  |
| SAFE ACTION | Implement the following instructions. | - |

Setting

Warnings are structured according to the SAFE method:

| | |
|---|---|
| **S** | Signal word (DANGER, WARNING, CAUTION or ADVICE) |
| **A** | Nature and source of the hazard |
| **F** | Consequence<br>Description of the possible consequences for humans, animals and the environment that may occur as a result of the hazard |
| **E** | Escape<br>Recommendations for action on how to avoid dangers |

## 2.5 Symbols

The following symbols are used in these operating instructions.

Warning signs

A warning sign is a safety sign that warns of a risk or danger.

The following table gives an overview of the warning signs used and their meaning.

| Symbol | Meaning | Symbol | Meaning |
|---|---|---|---|
|  | Warning against corrosive substances |  | General warning sign |
|  | Warning of slipping hazard |  | Hot surface warning |
|  | Warning of suspended loads | | |

Mandatory signs

The mandatory sign is a safety sign that prescribes a certain behavior.

The following table provides an overview of the bid signs used and their meaning.

| Symbol | Meaning | Symbol | Meaning |
|---|---|---|---|
|  | Follow the instructions |  | Using hand protection |
|  | Use eye protection |  | Use protective clothing |
|  | Use foot protection | | |

## 2.6 Copyright protection

These operating instructions are protected by the copyright of PROCESSTEC, INC protected. Duplication of the entire document or in excerpts and/or passing it on to third parties is only permitted with the prior written consent of PROCESSTEC, INC.

## 2.7 Warranty

These operating instructions are protected by the copyright of PROCESSTEC, INC protected. Duplication of the entire document or in excerpts and/or passing it on to third parties is only permitted with the prior written consent of PROCESSTEC, INC.

PROCESSTEC, INC assumes no responsibility and warranty and will release itself from any claims against third parties if personal injury and property damage are due to one or more of the following causes by the operator or a third party.

These concerns:

- Improper use of the strainer
- Non-observance of the instructions in these operating instructions
- Non-compliance with the specified operating limits and operating conditions
- Improper recommissioning, operation, inspection or maintenance of the strainer
- Modifications to the filter or individual components that have not been expressly approved by PROCESSTEC, INC.
- Use of prohibited accessories or spare parts that do not originate from PROCESSTEC, INC.
- Defect and / or damage due to fire, earthquake, flood or force majeure.
- Defect and/or damage caused by transport, moving or dropping the product after purchase.

# 3 Description of the filter “Safe strainer”

This section contains information to the filter.

### Product description

The filter is a hygienic process cleaning component for a variety of applications.

The filter is designed to eliminate the potential hazards often associated with high pressure systems and high temperature systems.

The filter is installed directly in the CIP circuit. The filter can be installed horizontally vertically in the pipelines.

The design of the filter allows the drain valve to be opened by opening the valve handle. As a result, the prevailing pressure is first released to release. The fluid can be drained through the drain valve. This function can be performed during production.

| ADVICE  |
| --- |
| For the use of the strainer, the operating instructions must be read. |

## 3.1 Design of the strainer

This section contains information on the construction of the strainer as well as the mode of operation of the different positions of the drain valve and sieve inserts.

### Strainer in the "Closed" position

- The bayonet lock is in the normal position when it is closed.
- The outlet for draining the fluid or for pressure relief is closed.

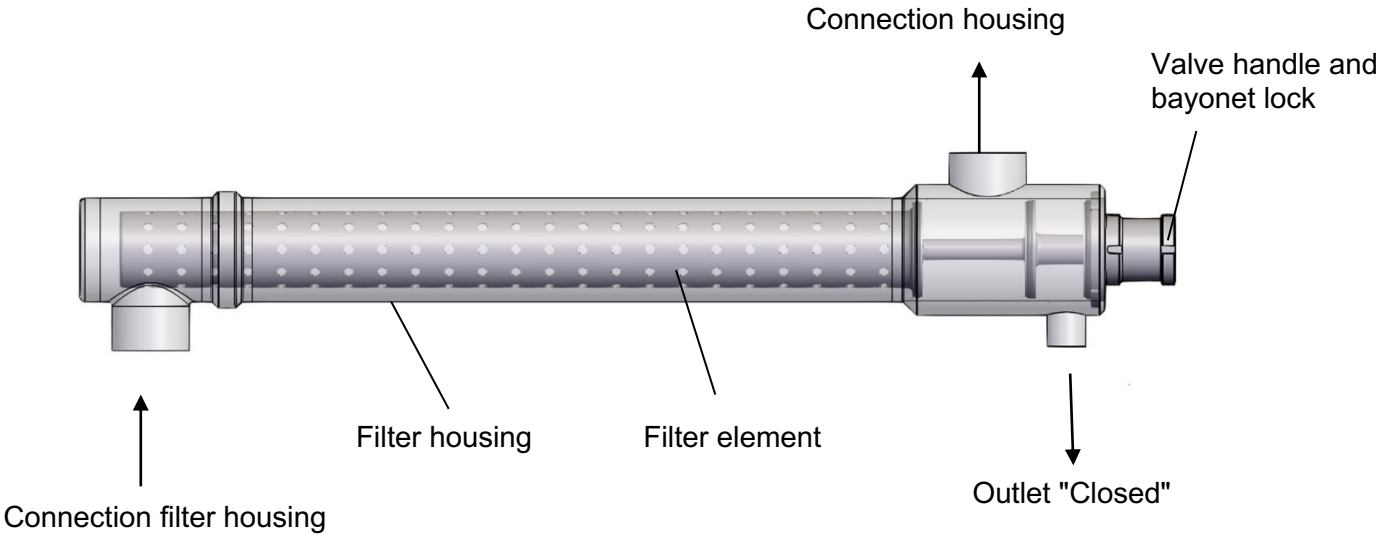



Figure 1 – discharge „closed“

**Strainer in the "Open" position**

- The outlet for pressure relief is opened by unlocking and simultaneously opening the bayonet lock.
- Opening allows the fluid or pressure to be released.

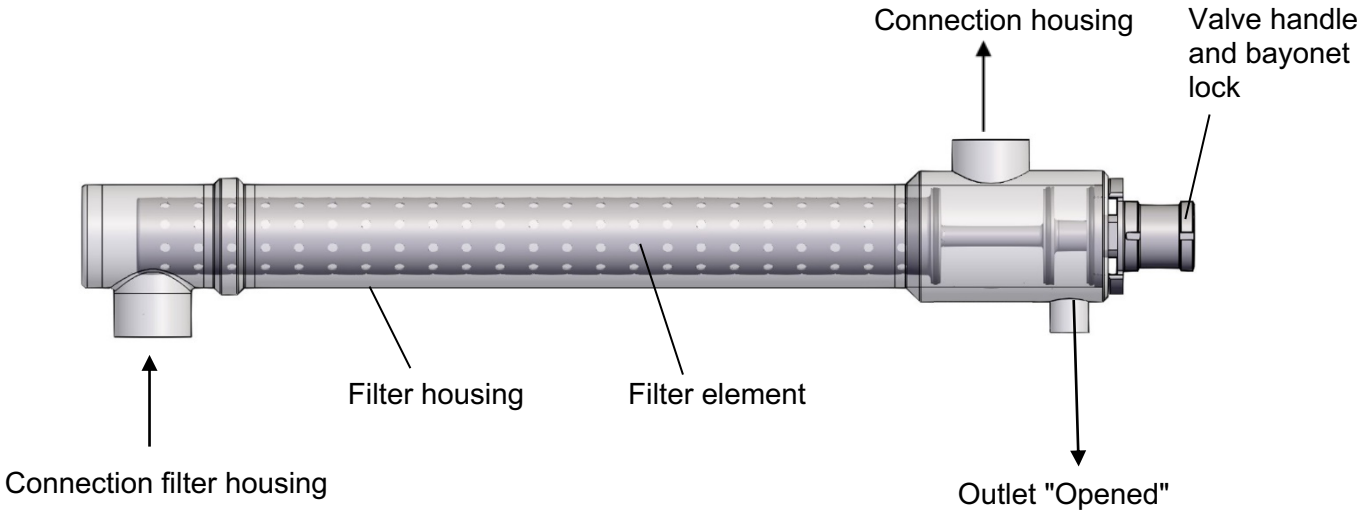


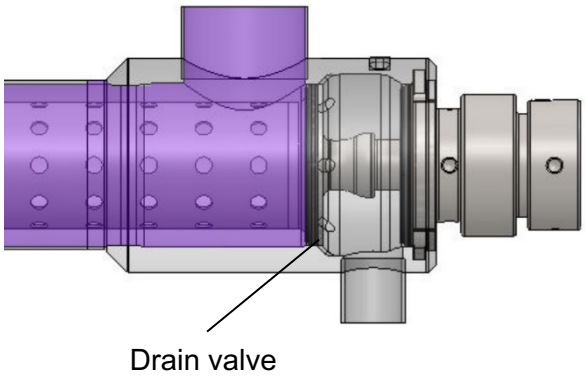

Figure 2 – discharge „open“

## 3.2 Valve handle and bayonet lock

This section contains information.

- for manual operation of the valve handle and the resulting functions during the production process.
- to open the filter and to remove the filter element by manually operating the bayonet lock.

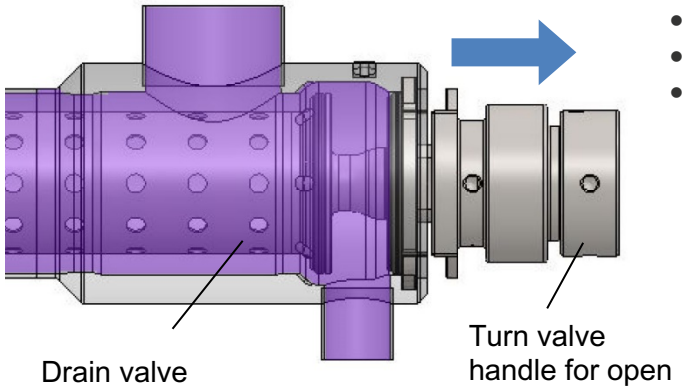
### 3.2.1 Production




- Filter closed
- Drain valve closed
- Operable for production

Figure 3 – Position „Production“

### 3.2.2 Drain




- Filter closed
- Drain valve opened
- Release of pressure
- Operable for draining the fluid

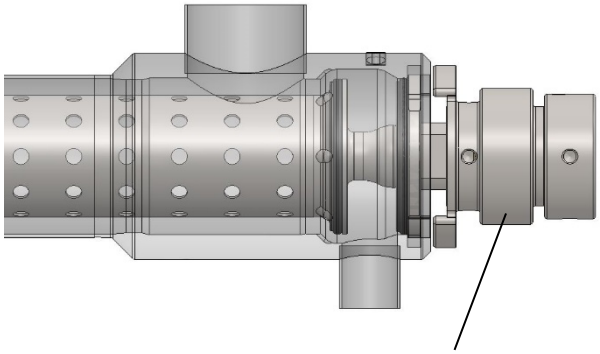
Figure 4 – Position „Drain“

**ADVICE**

A clutch key is required to open/close the valve handle as well as to unlock/lock the bayonet lock.

### 3.2.3 Unlock

- Filter discharged
- Drain valve opened
- Filter is unlocked



Turn bayonet lock for open

Figure 5 – Position „Unlock“

**ADVICE**

A clutch key is required to open/close the valve handle as well as to unlock/lock the bayonet lock.

### 3.2.4 Disassembly

- Filter discharged
- Disassembly of filter element

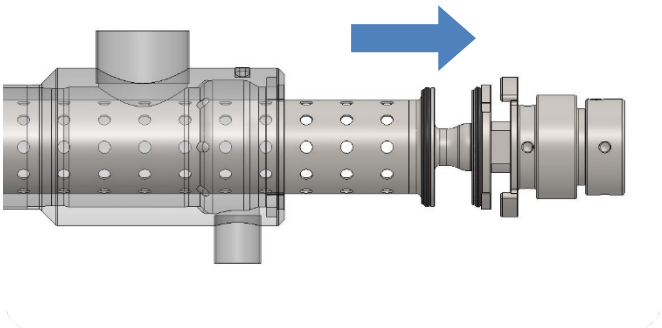


Figure 6 – Position „Disassembly“

### 3.2.5 Filterelements

Depending on the application, different filter elements can be inserted into the filter housing. The filter elements are available in pore sizes from 1µm (M = Mesh filter element) to 5000µm (P = Perforated filter element).

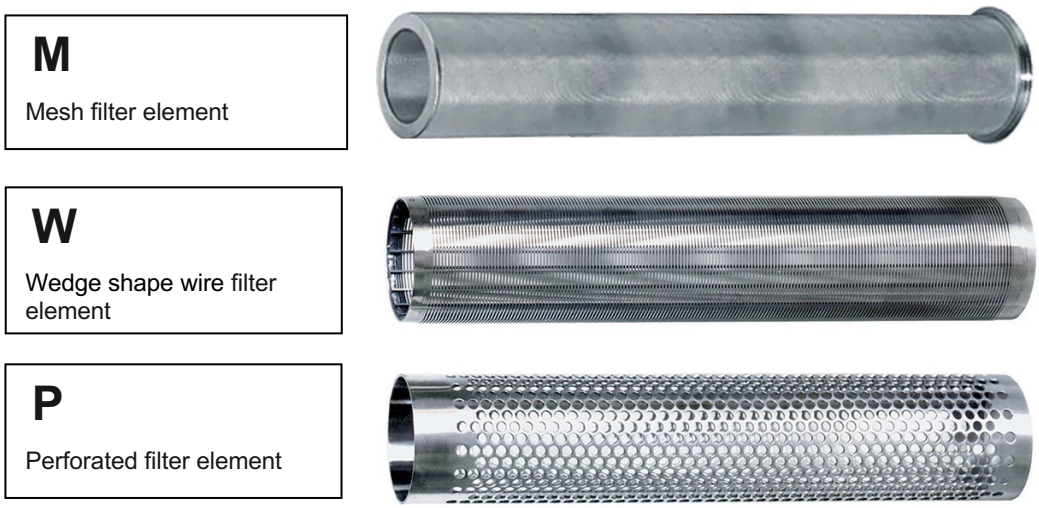



Figure 7 – Filter elements

Due to the different filter elements, a wide variety of solids can be retained so that they do not get into the pumped medium and contaminate.

The filter elements are made of 316L stainless steel without adhesives or binders. Due to the stable construction, they withstand high differential pressures.

## Fineness of filter elements

| Filter element Size | Code | Size | DIN-Standard | Old standard | Outside diameter | Wall thickness |
|---|---|---|---|---|---|---|
| 1 | C10 | OD1,0“ | 11866 C | OD, ASME, A270 | 25,4 mm | 1,65mm |
| | C15 | OD1,5“ | 11866 C | OD, ASME, A270 | 38,1mm | 1,65mm |
| | C20 | OD2,0“ | 11866 C | OD, ASME, A270 | 50,8mm | 1,65mm |
| 2 | C25 | OD2,5“ | 11866 C | OD, ASME, A270 | 63,5mm | 1,65mm |
| | C30 | OD3,0“ | 11866 C | OD, ASME, A270 | 76,2mm | 1,65mm |
| | C40 | OD4,0“ | 11866 C | OD, ASME, A270 | 101,6mm | 2,11mm |
| 3 | C50 | OD5,0“ | 11866 C | OD, ASME, A270 | 127mm | 2,11mm |
| | C60 | OD6,0“ | 11866 C | OD, ASME, A270 | 152,4mm | 2,11mm |
| 1 | A25 | DN25 | 11866 A | DIN 11850 | 28,0mm | 1,5mm |
| | A32 | DN32 | 11866 A | DIN 11850 | 34,0mm | 1,5mm |
| | A40 | DN40 | 11866 A | DIN 11850 | 40,0mm | 1,5mm |
| | A50 | DN50 | 11866 A | DIN 11850 | 52,0mm | 1,5mm |
| 2 | A65 | DN65 | 11866 A | DIN 11850 | 70,0mm | 2,0mm |
| | A80 | DN80 | 11866 A | DIN 11850 | 85,0mm | 2,0mm |
| | A100 | DN100 | 11866 A | DIN 11850 | 104,0mm | 2,0mm |
| 3 | A125 | DN125 | 11866 A | DIN 11850 | 129,0mm | 2,0mm |
| | A150 | DN150 | 11866 A | DIN 11850 | 154,0mm | 2,0mm |
| 1 | B10 | 1,0“ | 11866 B | ISO-2037 | 42,4mm | 2,0mm |
| | B15 | 1,5“ | 11866 B | ISO-2037 | 48,3mm | 2,0mm |
| | B20 | 2,0“ | 11866 B | ISO-2037 | 60,3mm | 2,0mm |
| 2 | B25 | 2,5“ | 11866 B | ISO-2037 | 76,1mm | 2,0mm |
| | B30 | 3,0“ | 11866 B | ISO-2037 | 88,9mm | 2,0mm |
| | B40 | 4,0“ | 11866 B | ISO-2037 | 114,3,1mm | 2,0mm |
| 3 | B60 | 6,0“ | 11866 B | ISO-2037 | 139,7mm | 2,6mm |

Table 1 – Fineness of filter elements

### 3.2.6 Mode of operation of wedge shape wire filter

There are two cycles that are possible during the use wedge shape wire element.

**Filter cycle**

During the filter cycle, the solids are deposited on the smooth surface. These deposits act as an additional filter for finer particles. The fines slip through and do not get stuck in the conical slots.

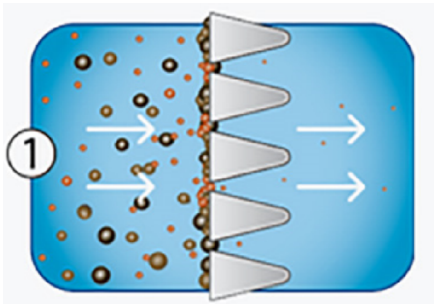



Figure 8 – Filter cycle

**Backwash cycle**

By reversing the flow direction, the deposits and dirt are removed from the filter surface

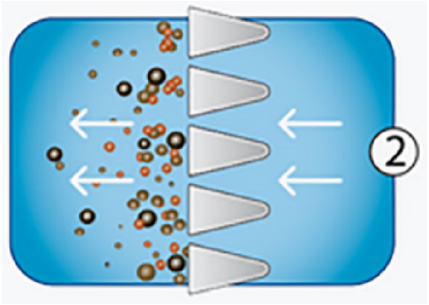
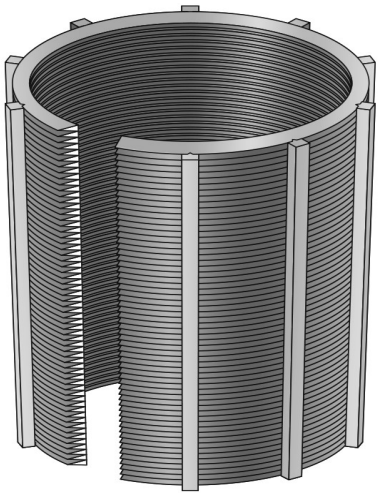



Figure 9 – Backwash cycle

Figures 8 and 9 show that the solids are deposited on the smooth surface. The orientation of the smooth surface of wedge shape wire filter can be inside as well as outside.

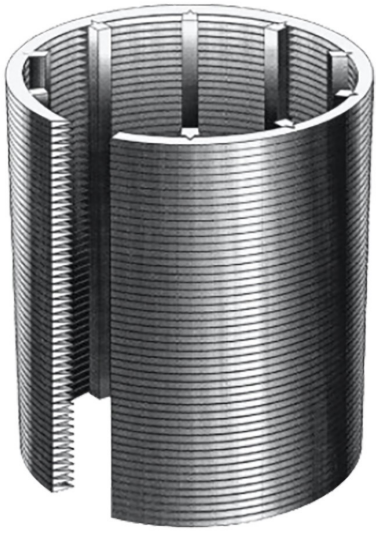
## Deposition of solids "inside"



- The smooth surface is inside

Figure 10 – Deposition of solids "inside"

## Deposition of solids „outside“



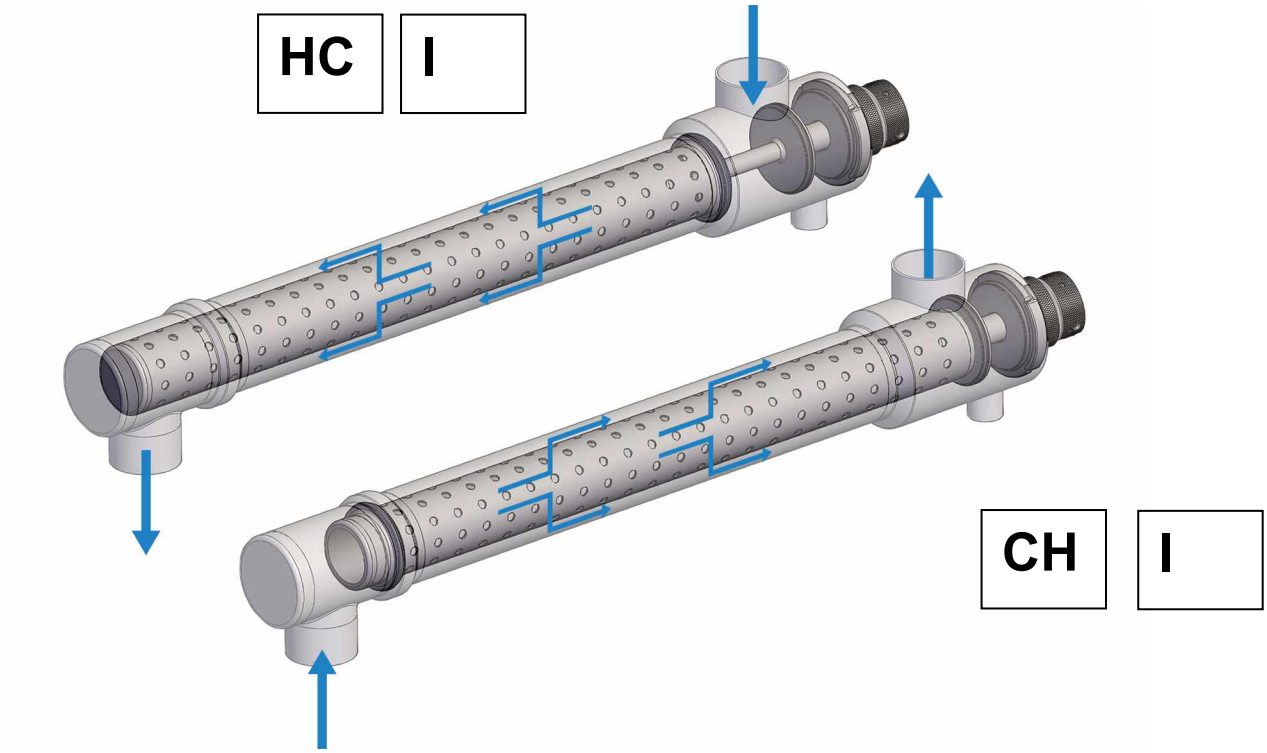
- The smooth surface is outside

Figure 11 – Deposition of solids „outside“

### 3.2.7 Flow directions

The filter screen is designed in such a way that different flow directions are possible. The different flow directions are realized by different constructive solutions.

**Flow direction from inside to outside**



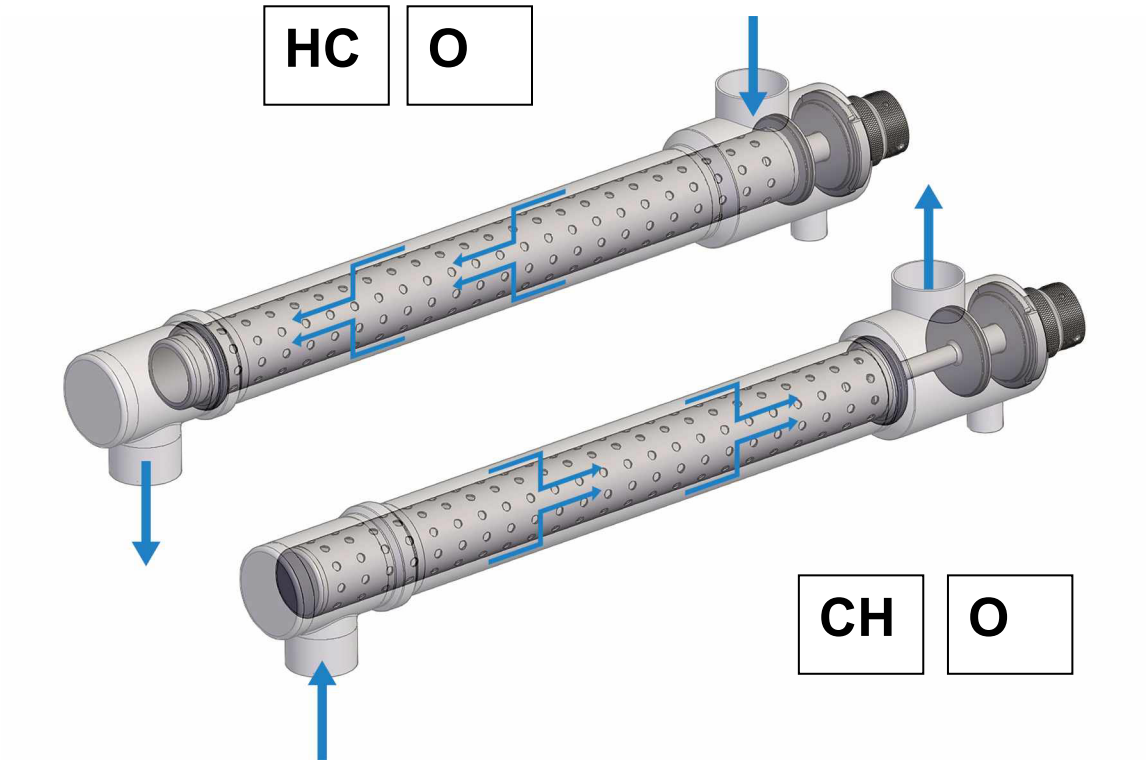

HC = Inlet connection housing / outlet connection filter

CH = Inlet connection filter housing / outlet connection filter housing

I = flow direction from inside to outside

Figure 12 – flow direction from inside to outside

**Flow direction from outside to inside**




HC = Inlet connection housing / outlet connection filter housing

CH = Inlet connection filter housing / outlet connection housing

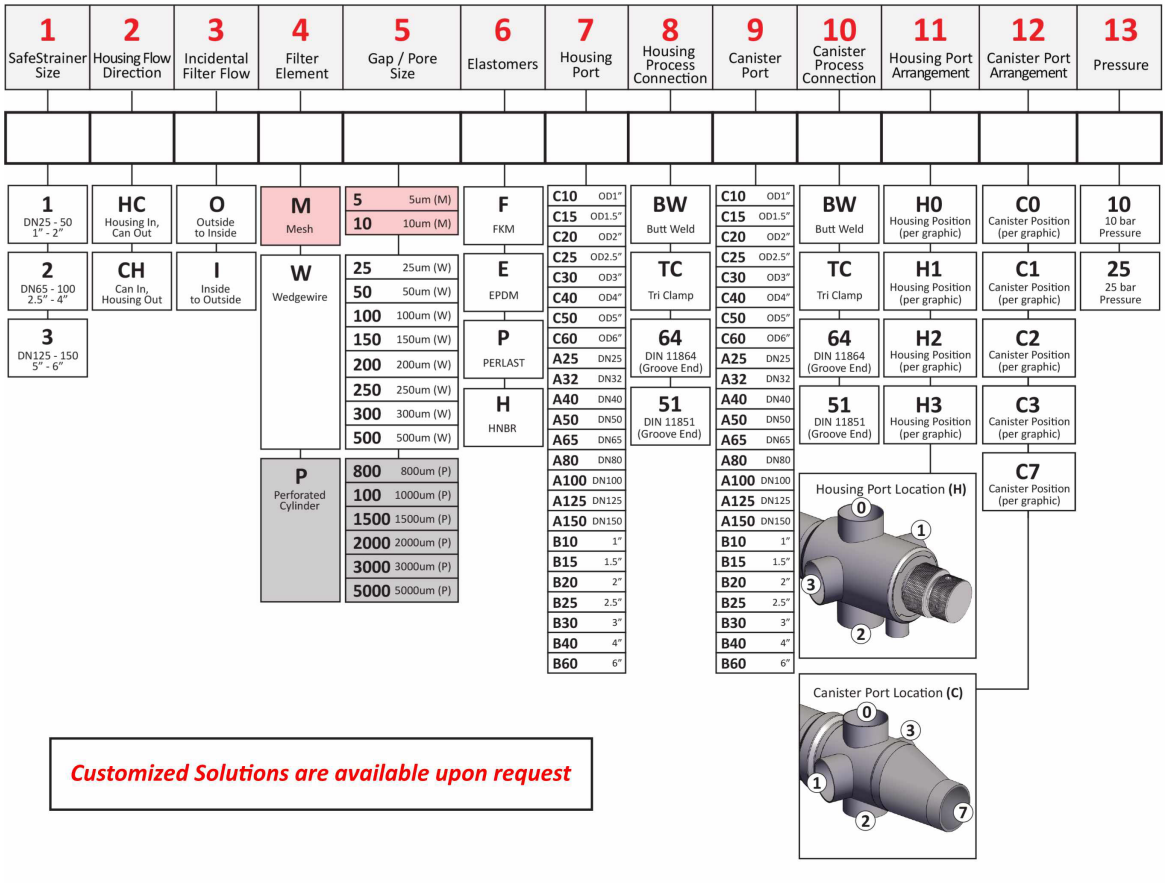
O = flow direction from outside to inside

Figure 13 – Flow direction from inside to outside

## 3.3 Configuration (Product code)

Below is a configuration table with all available options for the filter. It is formatted so that each unique configuration can be identified by the specific code on the part. This diagram also serves as a quick guide.

Examples of configuration would be:




## 3.4 Supply of delivery

Supply of delivery includes flowing position:

| Pos. | amount |
|---|---|
| Filter „Safe Strainer“ | 1 |
| Technical documentation (Operating manual and appendix) | 1 |

## 3.5 Name plate

The name plate contains information for the identification of the filter.

Example:

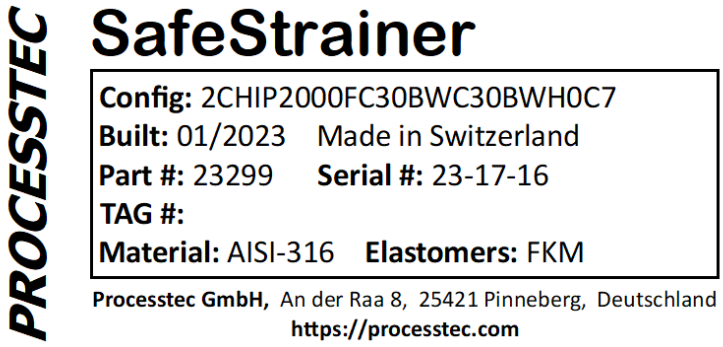



Figure14 – Name plate, example

| | | |
|---|---|---|
| 1 | Configuration (Product Code) | 2CHIP2000FC30BWH0C7 |
| 2 | Built | 01/2023 |
| 3 | Country of origin | Switzerland |
| 4 | Part Number | 23299 |
| 5 | Serial Number | 23-17-16 |
| 6 | Marking of components in technical systems and plants | |
| 7 | Material | AISI-316L |
| 8 | Elastomer | FKM |
| 9 | Manufacturer's address | PROCESSTEC, INC<br>9938 W. Legacy Ave<br>Visalia, CA 93291 |

The name plate is a plastic sticker and is glued to the filter housing.

# 4 Technical data

The specific technical data and dimensions of the filter can be found on the drawing, among others:

- Operating pressure
- Connection sizes
- Dimension
- Etc.

**ADVICE**

Technical data and dimensions of the filter
⇨ see appendix

Temperature application range of

-20°C to

depending on the elastomer:

HNBR +140°C

FKM/FPM +200°C

EPDM +140°C

Other elastomers on request!

# 5 Safety

This section contains information about protecting people and the environment.

### Type of use

The filter is intended exclusively for use in the following types of use.
The use for other types of use is not intended.

Groups

- Commercial or industrial users

Usage environment

- No restrictions

### Interfaces

The filter has different interfaces. An interface is the place where the filter interacts with a person, medium or other device. The interfaces delimit the responsibilities between manufacturer and operator.

The following information about the necessary interfaces:

Human > filter

- Actuation of the valve handle
- Actuation of the bayonet lock
- Expansion of the filter element

Filter screen > medium

- Flowable medium

### Intended use

The filter is intended exclusively for the following use:

- Mud flaps to protect pumps, valves, nozzles or heat exchangers.
- The filter is installed in the intended areas of application.

Application

The filter screen is intended exclusively for use in the following applications:

- Food industry
- Beverage industry
- Cosmetics
- Chemical industry
- Industry

Any other area of application is not intended.

### Reasonably foreseeable misuse

Reasonably foreseeable misuse means the misuse that is not desirable from the manufacturer's point of view, but which the manufacturer must assume because it must be assumed on the basis of human behavior that it occurs.

- The installation of the filter was not carried out properly.
- The pipes were selected incorrectly for the connection sizes.
- Bayonet lock is not secured before start of production.
- The bayonet lock is unlocked under pressure.
- The filter is used in pharmacy.
- The filter is replaced during production.
- The filter element is not installed properly when changing.
- Leakage of hazardous fluids.
- Leaks are not removed.
- The disposal of the filter element is not done properly.

### Tasks and qualifications of personal

| Person | Task | Required qualification |
|---|---|---|
| Operator | Operation of the filter screen | Instruction, training |
| Occupational safety specialist | • Carry out risk assessment<br>• Instruct personal | Completed training as a specialist for occupational safety with timely experience with pumps |
| Maintenance personnel | Maintenance of mechanics | Person with appropriate training, appropriate education, timely experience, and knowledge of the relevant regulations, enabling him or her to identify risks and avoid hazards that may arise from mechanics. |
| Disposal companies | Dispose of the filter | Qualified waste management company for legally compliant, proper and professional disposal of the filter |

## 5.1 Occupational safety and residual risks

The operator of the filter screen is responsible for the implementation of occupational health and safety obligations. The occupational health and safety regulations of the country in which the filter is used apply.

The obligations include, inter alia, the following points:

- Provide these operating instructions or extracts to persons who perform tasks with or in connection with the filter
- Provide these persons with the applicable documents.
- Instructing persons on the intended use and misuse.
- Instruction of persons in regard of protective devices and supplementary protective devices.
- Instruction of persons in regard of residual risks.

The handling of the filter screen is only permitted to persons who meet the following requirements. All other persons are prohibited from handling the filter.

- You are rested and not under the influence of drugs, alcohol or medications that can reduce your ability to react and absorb.
- You always observe the safety and accident prevention regulations of the employer and all legal provisions relevant to the personal safety and safety of others.

### Slippery surfaces

**⚠ CAUTION**

The use of liquid media can lead to slippery surfaces, which can result in slipping, falls with personal injury.

- Eliminate leaks immediately.
- Always wear personal protective equipment when removing leaking/spilled product.
- Absorb leaking liquids immediately with absorbent material and dispose of them professionally.

### Touching, ingestion, inhalation with dangerous substances

| DANGER  |
|---|
| Inhalation, ingestion or skin contact can lead to damage to health. Burns can lead to loss of vision and destruction of the skin.<br>• Open bayonet lock with care.<br>• Wear protective gloves / protective clothing / eye protection / face protection.<br>• After skin contact, proceed according to the hazardous substance data sheet.<br>• Have eyewash bottles ready.<br>• Keep ignition sources away. |

### Filter is under pressure

| DANGER  |
|---|
| An unexpected increase in pressure in containers when heated can lead to a risk of bursting. Which may result in personal injury and / or property damage.<br>• Pressure monitoring by the operator.<br>• Temperature monitoring by the operator.<br>• Do not touch surfaces of the filter screen, if necessary. Attach a "Hot surface" warning |

# 6 Transport

To avoid transport damage, the filter should be transported as a whole in appropriate packaging.

External transport can take place under the following environmental conditions:

| | |
|---|---|
| Ambient temperature | -20°C bis +40°C |
| Relative humidity | 40% bis 70% non-condensing |

**ADVICE**

Technical data and dimensions of the filter
⇨ see appendix

**⚠ CAUTION**

Handling suspended loads can lead to personal injury or property damage if they are not lifted with the correct lifting and slings.

- To lift the transported goods for the respective environment and weight with suitable lifting or slings. Lifting belts according to DIN EN 1492-1 must be used accordingly.
- The lifting load per person must not exceed 30 kg!
- Lift loads over 30 kg only with lifting equipment or the equivalent number of people.
- Wear your personal protective equipment.

# 7 Assembly

The installation position can be vertical or horizontal.

The following prerequisites must be met for installation:

- Sealing elements integrated in the filter must be removed before welding.
- The filter can be pre-assembled without any force.

| ⚠ CAUTION  |
|---|
| Through welding work, heat enters the filter. This can lead to stresses in the material as well as material changes, which can cause damage to the filter, e.g. warping, cracking, stresses.<br>• Sealing elements integrated in the filter must be removed before welding.<br>• Welding work must only be carried out by qualified personnel with knowledge of the Pressure Equipment Directive. |

After welding, the filter must cool down before the seals and filter element are inserted.

| ⚠ CAUTION  |
|---|
| Contamination on sealing surfaces or seals can lead to leakage, which can result in personal injury or property damage.<br>• Filter housing, filter element, sealing surfaces and seals must be checked for contamination and cleaned before insertion. |

# 8 Maintenance

Maintenance includes all technical and organizational measures during the life cycle of the filter to ensure its safe, economical and functional condition and to avoid environmental damage.

The maintenance intervals are to be determined by the operator on a plant-specific basis.

### Warning of residual risks

| ADVICE  |
|---|
| For the use of the strainer, the operating instructions must be read. |

### Required personal protective equipment

| WARNING  |
|---|
| Failure to wear personal protective equipment or defective personal protective equipment poses a risk of personal injury.<br>• Wear your personal protective equipment.<br>• In case of defects, replace your personal protective equipment. |

### Required tools

| ADVICE |
|---|
| A clutch key is required to open/close the valve handle as well as to unlock/lock the bayonet lock. |

### Preparatory actions

For the maintenance of the partly completed machine, the following preparatory measures must be carried out:

- Shut off fluid supply to the filter screen
- Operate valve handle for pressure release and fluid drain
- Drain fluid

By unlocking the bayonet lock, the filter element can be removed. After that, filter element and sealing rings can be inspected for contamination and damage.

| ADVICE  |
|---|
| Disassembly of the filter element |

⇨ see section 3.2 Valve handle and bayonet lock

After maintenance, the filter is reinstalled and the fluid supply to the filter can be reopened.

**⚠ CAUTION**

Contamination on sealing surfaces or seals can lead to leakage, which can result in personal injury or property damage.

- Filter housing, filter element, sealing surfaces and seals must be checked for contamination and cleaned before insertion.

## 8.1 Spare Parts list

For the safe, trouble-free and economical use of the partly completed machine, original spare parts should be used.

If this is not possible, the alternative spare parts should correspond to the characteristics of the original spare parts in order to ensure the safe, trouble-free and economical use of the partly completed machinery.

**ADVICE**

Technical data and dimensions of the filter

⇨ see appendix

# 9 Cleaning

For cleaning, the filter elements can be pulled out of the filter housing.

| ADVICE  |
|---|
| Disassembly of the filter element<br>⇨ see section 3.2 Valve handle and bayonet lock |

### Warnung vor Restrisiken

| ADVICE  |
|---|
| Residual risks see section 5 Safety |

### Required personal protective equipment

| WARNING  |
|---|
| Failure to wear personal protective equipment or defective personal protective equipment poses a risk of personal injury.<br>• Wear your personal protective equipment.<br>• In case of defects, replace your personal protective equipment. |

### Required tools

| ADVICE |
|---|
| A clutch key is required to open/close the valve handle as well as to unlock/lock the bayonet lock. |

# 10 Disposal

### Legislation

The disposal of the partly completed machinery is carried out in accordance with the legislation of the country where the partly completed machinery is disposed of.

Compliance with this legal provision is in principle the responsibility of the operator of the partly completed machinery or the person responsible for disposal.

### Waste

The waste must be disposed of in accordance with the law, properly and professionally.

### Disposal of hazardous substances

**DANGER**

Improper disposal of hazardous substances can cause damage to the environment, property and personal injury.

- Proceed to disposal according to the hazardous substance data sheet.
- For hazardous waste, a verification procedure (proof of disposal and consignment notes) must be carried out.

### Materials

The following table gives an overview of the materials that are part of the partly completed machine:

| Material | Component |
|---|---|
| 316L | Filter housing, filter element |
| FKM, EPDM, HBNR | O-Rings |

### Warning of residual risks

**ADVICE**

Residual risks see section 5 Safety

### Required personal protective equipment

**WARNING**

Failure to wear personal protective equipment or defective personal protective equipment poses a risk of personal injury.

- Wear your personal protective equipment.
- In case of defects, replace your personal protective equipment.

# 11 Appendix

| No. | Document Title |
|---|---|
| 1 | Drawings |
| 2 | Data sheets div. |
| 3 | Manufacturer's declaration |