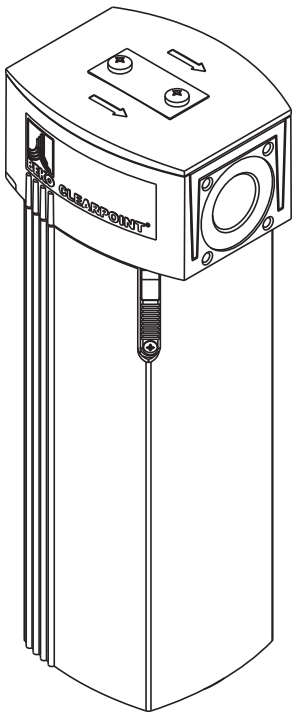
EN



Original installation and operation manual

CLEARPOINT® 3eco coalescence filter

- S040
- S050
- S055
- S075
- M010
- M012
- M015
- M018
- M020
- M022
- M023
- M025
- M027
- M030
- M032

08-308

Table of contents

1. General

1.1 Contact

Manufacturer	Customer service and tools
BEKO TECHNOLOGIES GmbH Im Taubental 7 | 41468 Neuss Tel. + 49 2131 988 - 1000 info@beko-technologies.com www.beko-technologies.com	**BEKO** TECHNOLOGIES GmbH Im Taubental 7 | 41468 Neuss Tel. + 49 2131 988 - 1000 service-eu@beko-technologies.com www.beko-technologies.com

INFORMATION	Country-specific manufacturer representation
	You can contact the country-specific manufacturer's representative via the address listed in the address section on the rear cover or by using the contact form on the manufacturer's website.

1.2 Information regarding installation and operation manual

INFORMATION	Copyright protection
	The contents of the installation and operation manual in the form of text, figures, illustrations, photographs, technical drawings, diagrams and other representations are protected by the copyright of the manufacturer. This applies especially to duplication, reproduction, microfilming and storage as well as processing in electronic systems.

Publication date	Revision status	Reason for amendment	Scope of amendment
31 October 2018	00_03	Changes to standards and regulations	Completely new version
23 September 2020	01_00	Change in technical data	Change

The installation and operation manual, hereinafter referred to as the manual, must always be stored close to the product and be in a permanently legible condition.

The manual must be handed over along with the product if it is sold or passed on.

NOTE	Follow the instructions given in the manual!
	This manual contains all the basic information required for safe operation of the product and must therefore be read before any actions are performed. Otherwise personal and material hazards as well as malfunction and device failure can occur.

1.3 Other applicable documents

This manual contains all the necessary steps for installation and operation of the **CLEARPOINT®** 3eco coalescence filter.

More detailed information about the installation and operation of the accessories is contained in the following installation and operation manuals:

- **BEKOMAT®** 20
- **BEKOMAT®** 20 FM
- **CLEARPOINT®** differential pressure gauge

1.4 Explanation of the safety symbols and pictograms utilised

The symbols and pictograms utilised below indicate safety-relevant and important information which must be adhered to when handling the product and to ensure safe and optimum operation.

1.4.1 In the documentation

Symbol/Pictogram	Description/Explanation
	General hazard symbol (danger, warning, caution)
	Pressurised system
	Adhere to the installation and operation manual
	General note
	Wear respiratory protection FFP 3
	Wear safety footwear
	Wear protective gloves (fluid-resistant)
	Wear hearing protection
	Wear safety goggles with side shields
	General information

1.4.2 On the device

Symbol/Pictogram	Description/Explanation
	**General hazard symbol (danger, warning, caution)** (This symbol can be found on the type plate and on the adhesive maintenance label for filter element replacement.)
	**Adhesive maintenance label for filter element replacement** When the next scheduled filter element replacement is due is marked on this adhesive label, and that the installation and operation manual should be followed.
	**Adhesive filter element label** This adhesive label is located on the base of the filter element and provides information about the filter element and the direction of flow.
	**eco label:** Products with this adhesive label have special added value in the form of energy saving and are allocated to the eco line of **BEKO** TECHNOLOGIES GMBH products.

1.5 Intended use

CLEARPOINT® filters and accessories

The **CLEARPOINT®** 3eco coalescence filter, also referred to as filter below, is used for the filtration of aerosols and solid particles in systems charged with compressed gas.

Any use of this system other than the use described in this manual is hereby deemed to be non-intended and can cause a hazard for the safety of people and the environment.

- Only use filters and accessories within the operating parameters given in the technical data and the agreed delivery conditions.
- Only use filters and accessories within a pipeline system designed for the technical data with appropriate connections, pipe diameters and assembly clearance.
- Only use the filters and accessories for the treatment of compressed gases of fluid group 2 according to Pressure Equipment Directive 2014/68/EU which are free of aggressive and corrosive components.
- Only use filters and accessories in non-explosive hazardous areas.
- Only use filters and accessories away from direct solar radiation and heat sources as well as areas subject to frost.
- Only combine the filters and accessories with the products named and recommended by **BEKO** TECHNOLOGIES GMBH in the manual.

Before using the filters, the operating company must make sure that all conditions and prerequisites for intended use are given.

The filter is exclusively designed for stationary use in a commercial or industrial area. All the assembly, installation, operation, disassembly and disposal work described may only be performed by qualified skilled technical personnel.

1.6 Reasonably foreseeable inappropriate use

Reasonably foreseeable inappropriate use is deemed to have occurred if the filter or any accessories are used in any other way than that described in the chapter “1.5 Intended use” on Page 7. Reasonably foreseeable inappropriate use includes the use of the product in a manner not intended by the manufacturer or supplier but which may result from foreseeable human behaviour.

Reasonably foreseeable inappropriate use includes:

- Executing of modifications of all kinds, in particular design and process engineering interventions, as these can lead to personal injury and damage to property as well as malfunction and device failure.
- The suspension, bridging or non-application of existing or recommended safety equipment.
- The use for treatment of compressed gases which are not included in fluid group 2 in accordance with PED 2014/68/EU or contain aggressive components. In cases of doubt a gas / condensate analysis must be carried out.

This list is not exhaustive as not all possible inappropriate use can be foreseen in advance. If the operating company is aware of any inappropriate use of the filter or accessories which are not listed here, the manufacturer must be informed immediately.

1.7 Target group and personnel

This manual addresses the specialist personnel listed below who are involved with work on the filter or the accessories.

INFORMATION	Personnel requirements
	The personnel may not execute any actions on the filter or the accessories when they are under the influence of drugs, medications, alcohol or other substances that may impair their consciousness.

Skilled technical personnel - transport and storage
Skilled technical personnel - transport and storage are people who, due to their training, professional experience and qualifications, have all the necessary skills to safely execute all actions in connection with the transport and storage of the product, to instruct, to recognise possible dangerous situations independently and to execute measures to avoid danger. The capabilities include, in particular, experience with hoists, forklifts and lifting equipment and knowledge of local laws, standards and guidelines relating to transport and storage.

Skilled technical personnel - compressed gas technology
Skilled technical personnel - compressed gas technology are people who, due to their training, professional experience and qualification, possess all the necessary capabilities to safely execute actions, and instruct all actions related to compressed gases and pressurised systems, to independently foresee potential hazardous situations and implement appropriate measures to avert any danger. The capabilities include, in particular, experience in handling measurement and control technology as well as knowledge of the regionally applicable laws, standards and regulations for compressed gas technology.

1.8 Responsibility of the operating company

The responsible operating company must ensure the following to prevent accidents, incidents and adverse effects on the environment:

- Before all actions, check to ensure that the manual available does in fact belong to the product.
- Always use, maintain and service the product properly.
- All applicable statutory requirements, safety regulations and accident prevention regulations have been adhered to.
- All regulations and operation manual for safe working and information regarding behaviour in the event of accidents and fires at the operating location are accessible to personnel at all times.
- The product is used with recommended and functioning safety devices that are not overridden.
- Always have assembly, installation and maintenance work carried out by qualified skilled personnel only.
- Personnel have the recommended personal protective equipment at their disposal and it is used.
- Appropriate technical safety measures have been implemented to ensure that the permissible operating parameters are not exceeded or undershot.

2. Safety-related information

2.1 General instructions

Safety instructions warn against residual risks when handling the product. Warning notices in the instructional text precede the procedure that poses a hazard to personnel or the environment.

These safety and warning notices must be strictly observed in order to prevent accidents, personal injury, damage to property and impairments during operation.

Structure of the safety instructions

The content of the safety instructions is based on the SAFE principle:

S - Safety symbol and signal word
A - Type and source of danger
F - Possible consequences of disregarding the danger in the order of its severity
E - Measures to prevent danger

Structural design of the safety instructions:

SIGNAL WORD	**Type and source of danger!**
 Safety symbol	Possible consequences if the danger is ignored
	• Measure to prevent the danger

Signal words according to ISO 3864 and ANSI Z.535.6

DANGER	**Imminent hazard** Consequences of non-compliance: Death or serious personal injury
WARNING	**Imminent hazard** Consequences of non-compliance: Death or serious personal injury are possible
CAUTION	**Potential hazard** Consequences of non-compliance: injury and/or damage to property
NOTE	**Additional notes** Consequences of non-compliance: Disadvantages during operation, actions and maintenance. No danger to people or regarding the safe operation.

2.2 Safety instructions

In order to prevent accidents, personal injury and damage to the device as well as impairments during operation, it is essential to adhere to the specified safety and warning notices.

The personal protective equipment specified in the safety instructions must be selected and made available by the operating company depending on the system parameters and properties.

DANGER	**Operation of plant outside the permissible limit range!**
	Operation of the product outside the permissible limits and operating parameters, unauthorised intervention and modifications may result in death or serious injury.
	• For safe operation of the product, always adhere to the limit values, operating parameters and maintenance intervals as well as the set-up and ambient conditions specified on the type plate and in the manual. • Check whether the operating parameters have been amended or restricted by the use of accessories. • Only use the product for its intended use.

DANGER	**Pressurised system!**
	Death or serious personal injury can result through contact with fast or suddenly escaping compressed air or through bursting system parts.
	• All work on the system must be carried out in the depressurised state and with the system secured against unintentional pressurisation. • Set up a safety zone around the system during all assembly, installation, maintenance and repair work. • Before pressurisation, check all pipe connections and tighten if necessary. • Slowly charge the piping system with compressed gas. • Avoid pressure blows and high differential pressures. • Assemble all pipes without mechanical stress. Avoid any vibrations occurring in the pipe network by using vibration dampers. • Always keep exactly to the installation and operating instructions given in this manual. • Always keep inspection and maintenance interval exactly. • Install feed and drain lines as fixed pipes. • Do not carry out any structural changes to the product.

DANGER	**Use of incorrect spare parts, accessories or installation materials!**
	The use of incorrect spare parts, accessories or installation materials, as well as auxiliary and operating materials, may result in death or serious injury. In addition, malfunction and device failure or material damage can occur.
	• For all installation, servicing and maintenance work, only use undamaged original parts, auxiliary and operating materials which are specified by the manufacturer. • Only use fittings and connecting elements approved for the respective application as well as suitable tools in perfect operating condition. • Only use cleaned pipes that are free of dirt and corrosion.

WARNING	**Non-application of personal protective equipment!**
	Non-application of personal protective equipment or the use of sub-standard protective equipment can lead to accidents or personal injuries during work on the product.
	• The personal protective equipment recommended, which must be in a flawless condition, must be worn during all work on the product. • Inspect the personal protective equipment regularly for flawlessness and functionality and replace damaged parts immediately.

WARNING	**Insufficient qualification!**
	Insufficient qualification of the personnel can lead to accidents, personal injury and damage to the device as well as impairments in operation during work on the product.
	All work on the product may only be carried out by appropriately qualified skilled personnel.

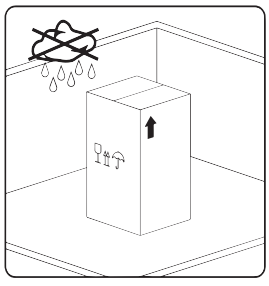
3. Transport and storage

WARNING	Insufficient qualification!
	Insufficient qualification of the personnel can lead to accidents, personal injury and damage to the device as well as impairments in operation during work on the product.
	The work on the product described below may only be executed and documented by skilled technical personnel - transport and storage.

CAUTION	Inappropriate transport or storage!
	Inappropriate transport or storage may result in personal injury or damage to the device.
	• Wear protective gloves when working with packaging material. • Use personal protective equipment, inspect it regularly for faultlessness and functionality and replace damaged parts immediately. • The product may only be transported or stored by skilled technical personnel - transport and storage. • Handle packaging and product with care. • Pack all parts impact-proof using suitable material. • Transport and handle the packaging according to the markings (observe lifting gear attachment points, the centre of gravity and orientation e.g. keep vertical, do not throw etc.). • Use proper means of transport and lifting equipment that is in proper working order. • Always adhere to the specified transport and storage parameters. • Store the product only outside of areas exposed to direct sunlight and heat sources.

Permissible storage and transport conditions, refer to “4.8 Maintenance label for filter element replacement” on Page 20.

NOTE	Handling packaging material!
	Inappropriate disposal of packaging materials can cause environmental damage.
	• The packaging material is recyclable. • Dispose of the packaging material in accordance with the regional laws, provisions, guidelines and regulations of the country and place of use.

NOTE	Note for transport and storage!
	The product must be • stored in the original packaging and retained in a dry as well as frost-free room. The ambient conditions, transport and storage parameters must never fall short of or exceed the specifications in the technical data chapter. • Always protect it against external weathering effects even in a packaged condition. • Secure the plant so that it cannot topple over or fall and protect it against vibration at the storage location.

4. Product information

4.1 Product description

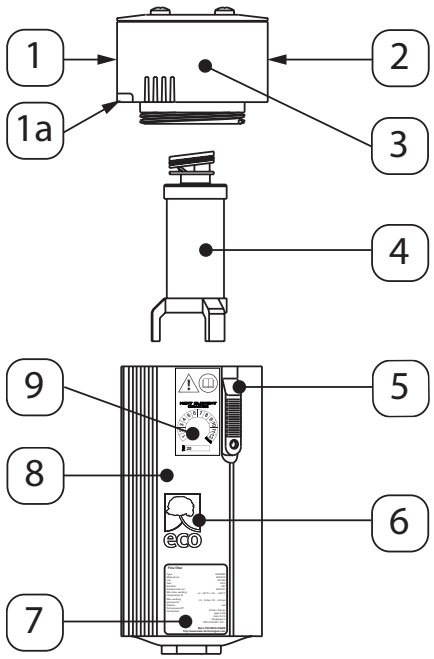
CLEARPOINT® 3eco coalescence filters are used for the filtration of aerosols and solid particles in compressed gas systems.

Depending on the requirements, filter elements with different filtration stages can be used to achieve the required compressed air class in accordance with ISO 8573-1.

The condensate accumulated during filtration can be discharged manually or automatically.

4.2 Product overview

The filter is made up of the following components:



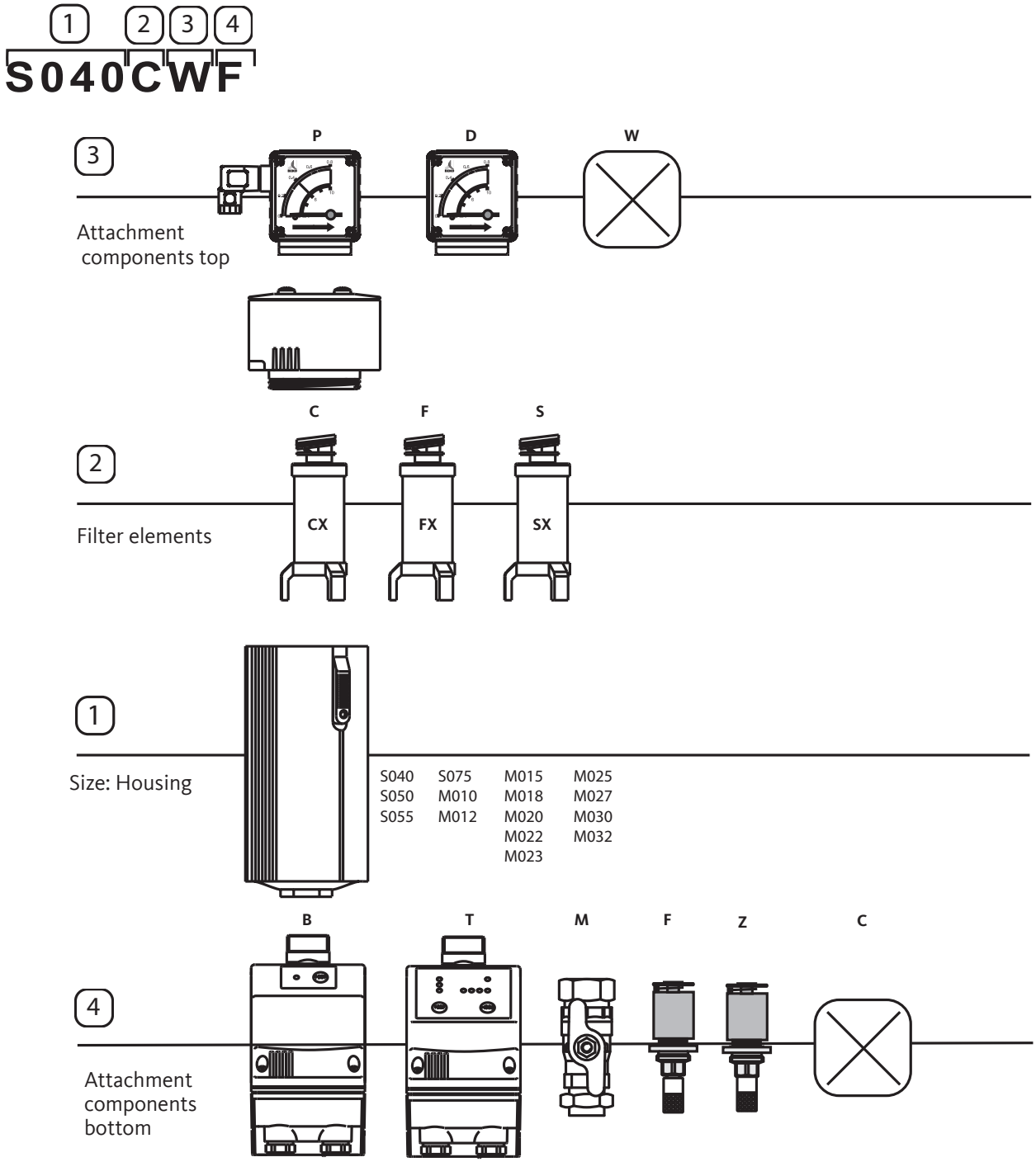
Position no.	Explanation/description
[1]	Inlet at the filter head, additionally marked 1a
[2]	Outlet at the filter head
[3]	Filter head
[4]	Filter element
[5]	Safety slide with locking screw
[6]	eco label: Products with this adhesive label have special added value in the form of energy saving and are allocated to the eco line of **BEKO** TECHNOLOGIES GMBH products.
[7]	Type plate
[8]	Filter housing with internal sealing ring
[9]	Adhesive maintenance label for filter element replacement

4.3 Product identification

The product designation is shown on the type plate and made up of numbers and letter codes. Each code stands for a filter component and is divided into the following categories:

[1] = Size: Housing
[2] = Filter elements
[3] = Attachment components top
[4] = Attachment components bottom

The product designation is explained below using the example **"S040CWF"**:



Attachment components top		
Position no.	Letter code	Designation
[3]	P	Differential pressure gauge with potential-free contact
	D	Differential pressure gauge without potential-free contact
	W	Without indicator unit

Filter elements					
Position no.	Letter code	Designation	99.9% separation rate solid particles [µm]	Residual oil content [mg/m³]	Compressed air class in acc. with (ISO 8573 - 1)
[2]	CX	Coarse filter	2 ... 5	≤ 5	[4: - :4]
	FX	Fine filter	0.5 ... 1	≤ 0.05	[2: - :2]
	SX	Super fine filter	0.1 ... 0.3	≤ 0.005	[1: - :2]*1

*1 Depending on the ambient conditions and operating parameters, class [1: - :1] can also be achieved.

Position no.	Model series	Installation size	Designation
[1]	S	040	Filter housing
	S	050	
	S	055	
	S	075	
	M	010	
	M	012	
	M	015	
	M	018	
	M	020	
	M	022	
	M	023	
	M	025	
	M	027	
	M	030	
	M	032	

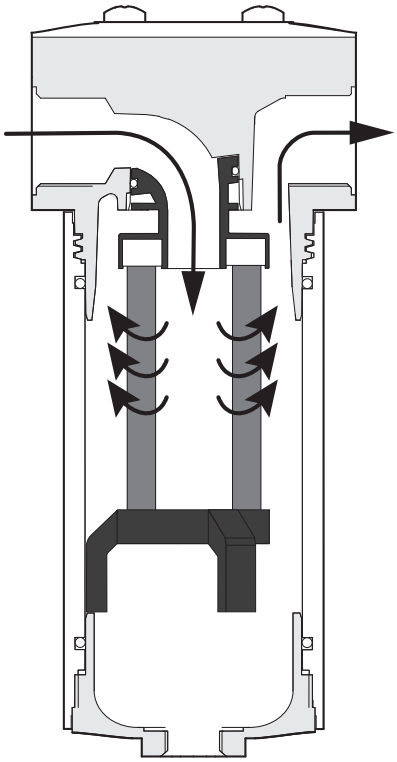
Attachment components bottom		
Position no.	Letter code	Designation
[4]	B	**BEKOMAT® 20**
	T	**BEKOMAT® 20 FM**
	M	Manual condensate drain
	F	Float drain, open when pressureless (NO - normally open)
	Z	Float drain, closed when pressureless (NO - normally closed)
	C	Without condensate discharge

4.4 Function description

4.4.1 Filtration

With the **CLEARPOINT**® 3eco coalescence filter, the direction of flow through the filter element is from the inside to the outside. Compressed gas flows into the filter element from where it flows through the filter element into the filter vessel. During this process, particles as well as oil and water aerosols are separated by the filter material. The liquid components in the filter material move downwards due to gravity, drip off and collect at the base of the filter vessel. From there, they are drained off automatically or manually. Over time, particles become deposited in the filter material. This results in an increase of the flow resistance (differential pressure) of the filter element.

The particle charge or degree of pollution of the filter element can be read off using a differential pressure gauge. More detailed information about this can be found in the installation and operation manual enclosed with the differential pressure gauge.

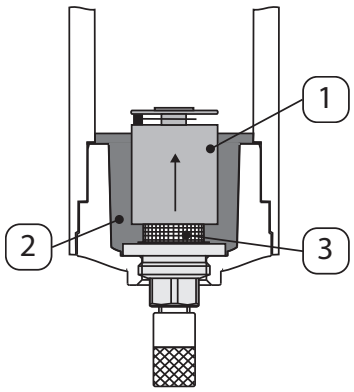
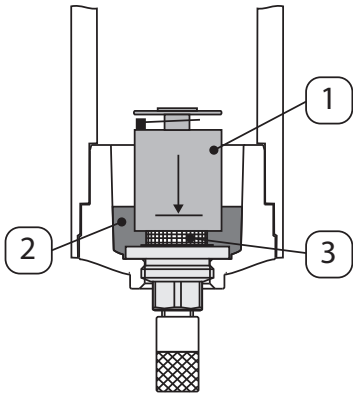


4.4.2 Condensate discharge through float drain

Float drains are mechanical condensate drains that work automatically as they are closed and opened based on the buoyancy of a float body **[1]**. When the condensate **[2]** in the container rises to a certain level, buoyant force pushes the float body **[1]** up and opens the outlet channel **[3]** for the condensate. The float body closes again when the condensate **[1]** drops to below a certain level. A small amount of condensate remains in the container.

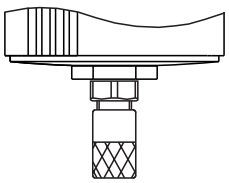
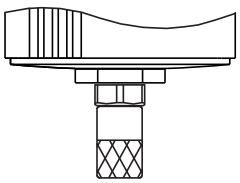
Two different float drains are used for discharging the condensate:

- Open when pressureless ([NO] normally open) - at operating pressure ≤ 0.5 bar(g) the float drain opens
- Closed when pressureless ([NC] normally closed) - the float drain remains closed even at operating pressure 0 bar(g)

Float drain opens	Float drain closes
	

Both types of float drain are delivered with the position "Automatic discharge" from the factory.
The knurled screw is screwed downwards as far as it will go.

To test the discharge function or depressurise the filter during maintenance work, the float drain can be set to the position "mechanically open". Screw the knurled screw anti-clockwise (left-hand thread) upwards as far as it will go.

Automatic discharge	Mechanically open
	

INFORMATION	Condensate discharge!
	Condensate discharge depends on the product combination and can vary.

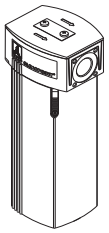
For further information on possible product combinations see “4.3 Product identification” on Page 14.

4.4.3 Condensate discharge through BEKOMAT®

Condensate discharge can also take place via the automatic **BEKOMAT®** condensate drain.
More detailed information can be found in the installation and operation manual for the **BEKOMAT®**.

4.5 Scope of delivery

The following table shows the scope of delivery of the filter.

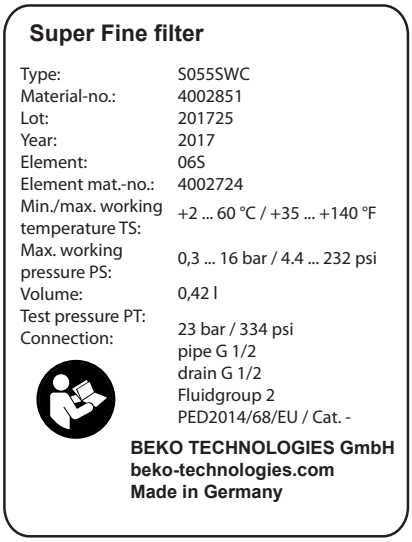
Illustration	Description/Explanation
	Filter
	Original installation and operation manual

INFORMATION	Possible product combinations!
	The scope of delivery can vary depending on the product combination.

For further information on possible product combinations see “4.3 Product identification” on Page 14.

4.6 Type plate

The type plate contains the identification and operating parameters of the filter and is located on the housing.
If you contact the manufacturer or supplier, always have this data at hand to identify your system.



Example

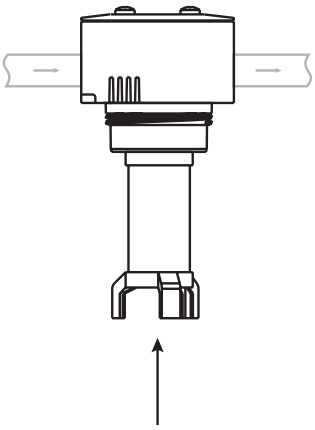
Position on type plate	Description
Super Fine Filter	BEKO filter designation
Type	Sales designation
Material no.	Material number
Lot	Lot number
Year	Year of manufacturer
Element	Filter element type
Element mat-no.	Filter element material number
Min. / max. working temperature TS	Min. / max. operating temperature range
Max. working pressure PS	Max. operating pressure range
Volume	Housing volume
Test Pressure PT	Test pressure
Connection	Thread connections
Pipe G 1/2	Thread connection of supply pipe
Drain G 1/2	Thread connection of condensate drain
Fluidgroup 2	Fluid group according to Pressure Equipment Directive 2014/68/EU
PED2014/68/EU / Cat. -	Specification of the category according to Pressure Equipment Directive 2014/68/EU

NOTE	**Handling the type plate!**
	Never damage, remove or make the type plate illegible.

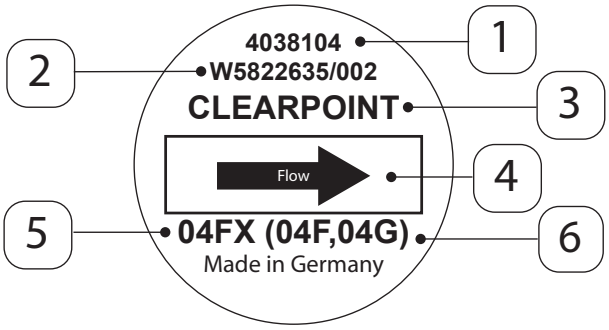
For more information regarding the symbols printed on the type plate, see “1.4 Explanation of the safety symbols and pictograms utilised” on Page 5.

4.7 Adhesive filter element label

The filter element can be identified on the basis of an adhesive label on the base of the filter element.
There are different filter elements for different applications and degrees of filtration.



Adhesive label on the base of the filter element

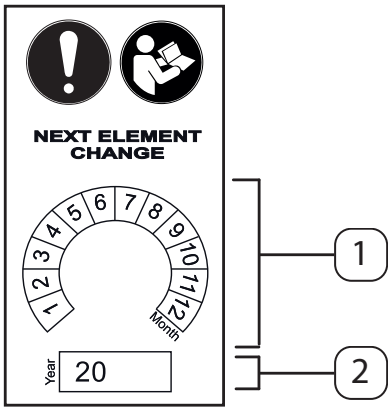


Adhesive filter element label -
View filter element base

Position no.	Explanation/description
[1]	Order reference
[2]	Lot number
[3]	Product group
[4]	Direction of flow
[5]	04FX designation of the filter element
[6]	04F, 04G designation of predecessor filter element in brackets

4.8 Maintenance label for filter element replacement

The next due filter element replacement date is entered on this adhesive label. For this, mark the respective month **[1]** and enter the year accordingly **[2]** .



Position no.	Explanation/description
[1]	Specification of month for next filter element replacement
[2]	Specification of year for next filter element replacement

5. Technical data

5.1 Filter performance data

CLEARPOINT® 3eco		S040	S050	S055	S075	M010	M012	M015
Connection [inches]		3/8	1/2	1/2	3/4	1	1	1 1/2
Volume flow at 7 bar(g) energy-optimised [m³/h] *1		35	65	100	150	200	250	320
Differential pressure [mbar] (wet saturated)	**CX**	Ø 50						
	FX	80	115	150	105	120	165	80
	SX	100	125	170	120	135	180	100
Volume flow at 7 bar(g) performance-oriented [m³/h] *1		46	85	130	195	260	325	415
Differential pressure [mbar] (wet saturated)	**CX**	Ø 70						
	FX	105	160	230	150	180	230	110
	SX	125	170	255	175	200	260	130
Category according to PED 2014/68/EU		-	-	-	-	-	-	-
Min. / max. operating pressure [bar(g)]		0 ... 16						
Min. / max. operating temperature [°C]		+2 ... +60						
Load test according to AD2000		10000 load changes ≙ pressure difference ≥3.2 bar at 16 bar(g)						
Medium		Compressed gases of fluid group 2 according to PED 2014/68/EU free of aggressive and corrosive components						
Weight [kg]		0.75	0.85	1.2	1.7	2.1	2.2	4.1
Volume [l]		0.25	0.31	0.42	0.87	1.12	1.26	2.52

*1 Volume flow at 7 bar(g) referring to +20 °C and 1 bar(abs)

CLEARPOINT® 3eco		M018	M020	M022	M023	M025	M027	M030	M032
Connection [inches]		1 1/2	2	2	2	2 1/2	2 1/2	3	3
Volume flow at 7 bar(g) energy-optimised [m³/h] *1		420	600	780	1020	1300	1620	1940	2400
Differential pressure [mbar] (wet saturated)	**CX**	Ø 50							
	FX	90	120	150	200	100	115	120	145
	SX	110	140	170	210	125	130	140	165
Volume flow at 7 bar(g) performance-oriented [m³/h] *1		545	780	1015	1325	1690	2100	2520	3120
Differential pressure [mbar] (wet saturated)	**CX**	Ø 70							
	FX	125	180	210	290	140	155	180	220
	SX	150	210	250	320	170	185	210	250
Category according to PED 2014/68/EU		-	I	I	I	II	II	II	II
Min. / max. operating pressure [bar(g)]		0 ... 16							
Min. / max. operating temperature [°C]		+2 ... +60							
Load test according to AD2000		10000 load changes ≙ pressure difference ≥3.2 bar at 16 bar(g)							
Medium		Compressed gases of fluid group 2 according to PED 2014/68/EU free of aggressive and corrosive components							
Weight [kg]		4.5	5.1	6.1	7.1	19.9	22.6	25.9	29.9
Volume [l]		2.97	3.40	4.23	5.24	13.9	16.5	19.5	23.2

*1 Volume flow at 7 bar(g) referring to +20 °C and 1 bar(abs)

5.2 Filter element performance data

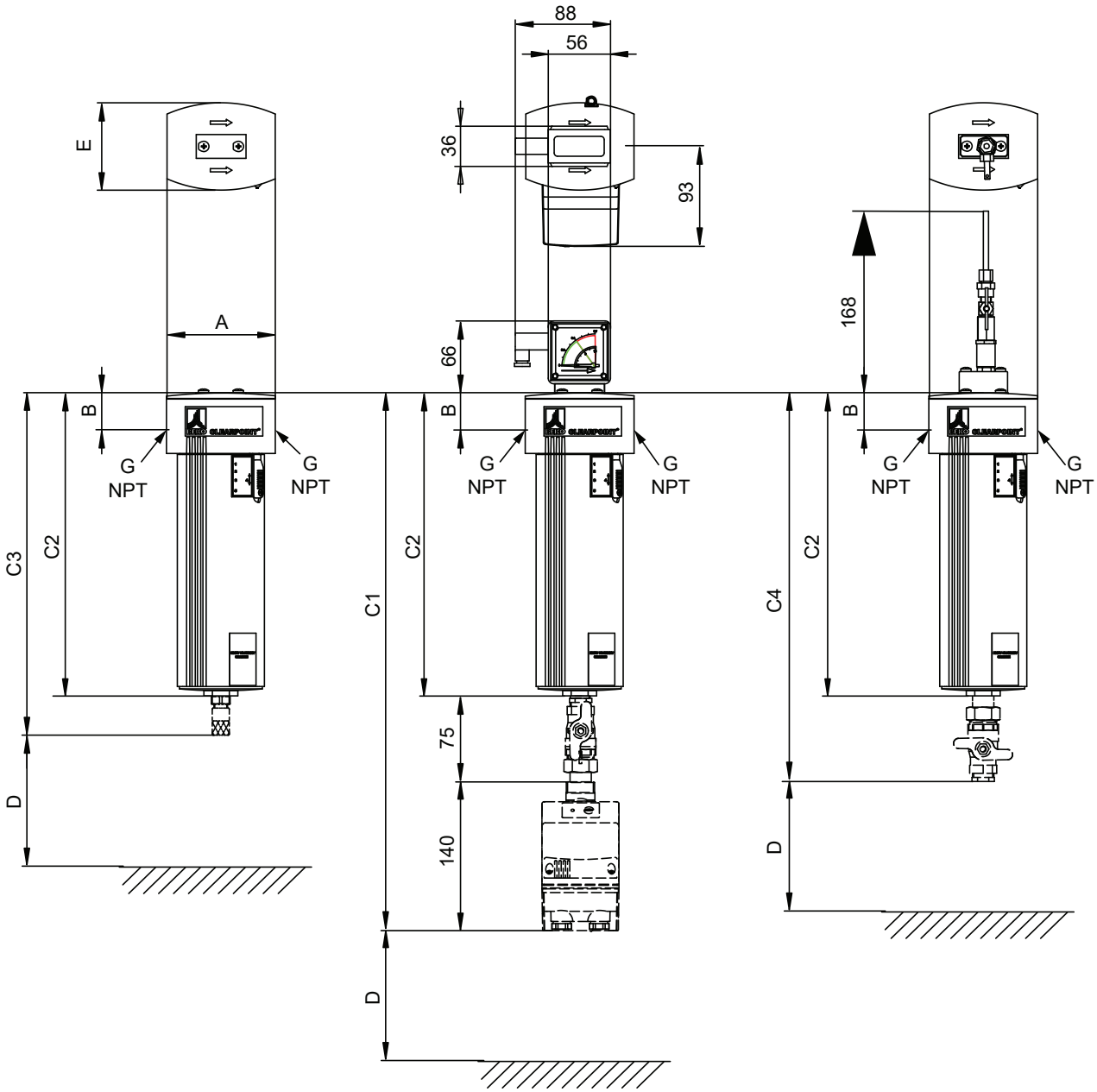
The performance data of the filter elements refer to validation according to ISO 12500-1 and -3.

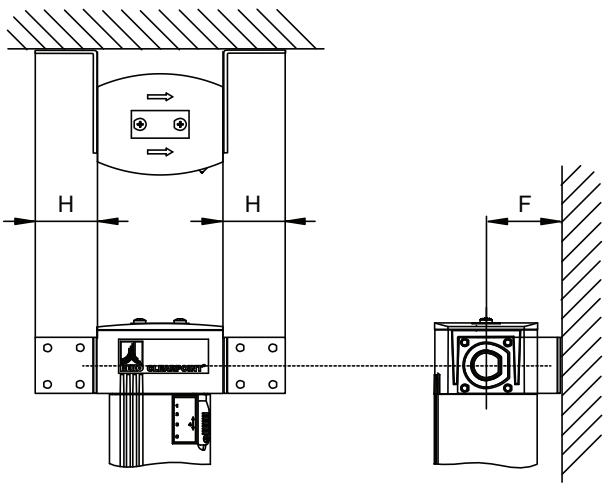
Type	Description	Solid particles [µm]	Aerosol content [mg/m³]	
			Inlet	Output
CX	Coarse filter	Separation rate 99.9 % for particles 2.0 - 5.0	30	5
FX	Fine filter	Separation rate 99.9 % for particles 0.5 - 1.0	10	0.05
SX	Super fine filter	Separation rate 99.99 % for particles 0.1 - 0.3	10	0.005

5.3 Materials

Component	Material
Housing head (filter head)	S040 ... M012: Aluminium (die-cast), anodised, powder-coated M015 ... M032: Aluminium (sand-cast), anodised, powder-coated
Housing body	S040 ... M032: Aluminium (extruded profile), anodised, powder-coated
Housing cover	Polyamide PA6, 30 % glass fibre reinforced
Housing base	S040 ... M012: Aluminium (die-cast), anodised, powder-coated M015 ... M032: Aluminium (sand-cast), anodised, powder-coated
M5 screws	Steel, black galvanised
Slide	Zinc (die-cast), seal FKM
O-rings	Standard: NBR | oil-free: FKM
Float drain	Plastic | brass | NBR
Manual condensate drain	Brass, nickel-plated
Wall bracket	Stainless steel
Adhesive label	Soft PVC, polyacrylate adhesive
BEKOMAT®	See the installation and operation manual for the **BEKOMAT®**
Differential pressure gauge	See the installation and operating manual for the differential pressure gauge
Oil indicator	See the installation and operating manual for the oil indicator
Filter element	Element head and base = Polyamide PA6, 30 % glass content Support body inside / outside = Expanded stainless steel Non-woven filter material = Borosilicate fibres Support material for pleats = Polypropylene Drainage material = Polyester needle felt Sealing compound = Polyurethane O-rings = Standard: NBR | oil-free: FKM

6. Dimensions





mm

Filter	Connection thread	A	B	C1	C2	C3	C4	D	E	F	H	Filter element
	G / NPT [inches]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	*1
S040 (type)	3/8	75	28	395	180	208	243	150	60	64.5	39.5	04 (type)
S050 (type)	1/2	75	28	425	210	238	273	150	60	64.5	39.5	05 (type)
S055 (type)	1/2	75	28	480	265	293	328	150	60	64.5	39.5	06 (type)
S075 (type)	3/4	100	34	498	283	308	346	150	80	63	45	07 (type)
M010 (type)	1	100	34	568	353	378	416	150	80	63	45	10 (type)
M012 (type)	1	100	34	603	388	413	451	150	80	63	45	12 (type)
M015 (type)	1 1/2	146	48	580	365	384	428	200	120	78.5	60	15 (type)
M018 (type)	1 1/2	146	48	633	418	437	481	200	120	78.5	60	18 (type)
M020 (type)	2	146	48	683	468	487	531	200	120	78.5	60	20 (type)
M022 (type)	2	146	48	780	565	584	628	200	120	78.5	60	22 (type)
M023 (type)	2	146	48	898	683	702	746	300	120	78.5	60	23 (type)
M025 (type)	2 1/2	260	77	886	671	684	734	300	200	130	120	25 (type)
M027 (type)	2 1/2	260	77	990	775	788	838	300	200	130	120	27 (type)
M030 (type)	3	260	77	1010	895	908	958	300	200	130	120	30 (type)
M032 (type)	3	260	77	1260	1045	1058	1108	300	200	130	120	32 (type)

*1 Please state the degree of filtration (type) with your order!

7. Assembly

7.1 Warning notices

DANGER	**Use of incorrect spare parts, accessories or installation materials!**
	The use of incorrect spare parts, accessories or installation materials, as well as auxiliary and operating materials, may result in death or serious injury. In addition, malfunction and device failure or material damage can occur.
	• For all installation, servicing and maintenance work, only use undamaged original parts, auxiliary and operating materials which are specified by the manufacturer. • Only use fittings and connecting elements approved for the respective application as well as suitable tools in perfect operating condition. • Only use pipes that are free of dirt, damage and corrosion.

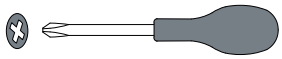
DANGER	**Pressurised system!**
	Death or serious personal injury can result through contact with fast or suddenly escaping compressed air or through bursting system parts.
	• All work on the system must be carried out in the depressurised state and with the system secured against unintentional pressurisation. • Set up a safety zone around the system during all assembly, installation, maintenance and repair work. • Before pressurisation, check all pipe connections and tighten if necessary. • Slowly charge the piping system with compressed gas. • Avoid pressure blows and high differential pressures. • Assemble all pipes without mechanical stress. Avoid any vibrations occurring in the pipe network by using vibration dampers. • The pipes must be able to bear the additional weight of the filter. Additional fixings must be mounted if necessary. • Always keep exactly to the installation and operating instructions given in this manual. • Always keep inspection and maintenance interval exactly. • Install feed and drain lines as fixed pipes. • Do not carry out any structural changes to the product.

WARNING	**Insufficient qualification!**
	Insufficient qualification of the personnel can lead to accidents, personal injury and damage to the device as well as impairments in operation during work on the product.
	All work on the product may only be carried out by appropriately qualified skilled personnel.

CAUTION	**Inappropriate assembly!**
	Inappropriate assembly of the product can lead to personal injury and product damage as well as impair operation.
	• The direction of flow of the filter must match the direction of flow in the pipe. • The filter must be fitted vertically in the pipe.

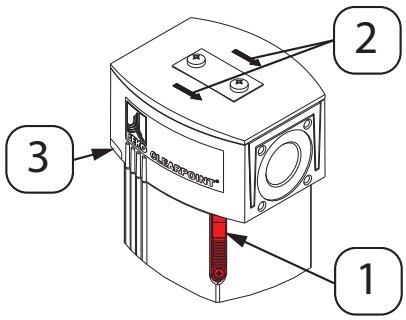
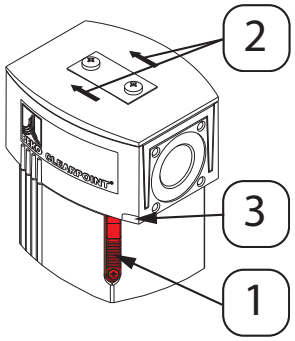
7.2 Assembly work

For assembly work to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• Screwdriver - cross-head size 2.5 mm 	• Additional installation and operation manual for the accessories used • Sealing materials such as e.g. PTFE tape (EN 837-2)	• Protective gloves (fluid-resistant) • Safety goggles with side shields • Hearing protection • Respiratory protection, protection class FFP 3 • Safety footwear

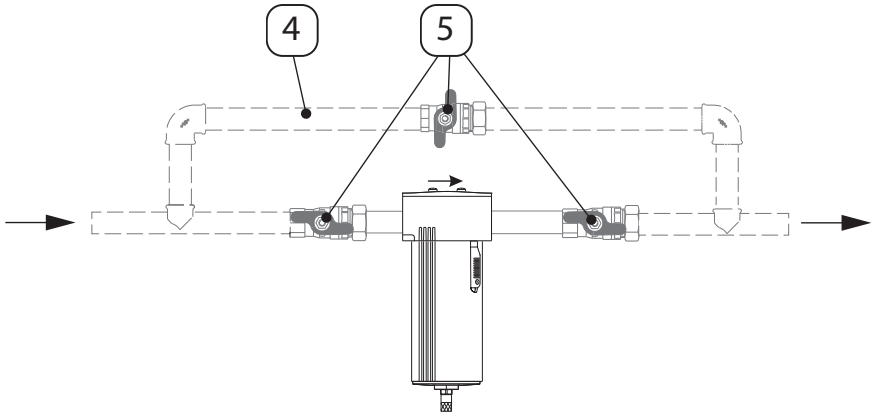
Preparatory tasks	
1.	Remove the dust cap from the following threads: • Inlet and outlet on the filter head • Condensate drain on the filter base
2.	Depressurise the pipelines or relevant pipe section.
3.	Heed the filter dimensions and make sure there is sufficient space for assembly. See “6. Dimensions” on Page 24.
4.	Pipes must be able to bear the additional weight of the filter. Additional fixings must be mounted if necessary.
5.	Pipes must be free of contamination and corrosion. Check pipe thread for damage. Defective pipes must be replaced immediately.
6.	Pipes must be free of mechanical stress and corrosion. Compensate any vibrations which occur by using vibration dampers.
7.	Only use fittings which are suitable for this pressure and temperature range. The pipe threads must match those of the filter head.
8.	Execute the condensate drain in such a way that no compressed gas or condensate can escape to the surrounding of the filter. The condensate to be discharged should be routed to a processing system conforming to law (e.g. ÖWAMAT® or BEKOSPLIT®).

The direction of flow of the filter must be taken into account during assembly. It must be adapted to the direction of flow in the pipe.

Direction of flow Left → right (default)	Direction of flow Right → left
	

The housing head and the housing body are equipped with a double-start trapezoidal thread. The direction of flow through the filter can be adapted to the direction of flow in the pipe by turning the housing head through 180°. The direction of flow is indicated by arrows **[2]** and a raised marking **[3]** on the housing head. These must be aligned as shown. The safety slide **[1]** must always be in an easily accessible position on the front.

The fitting of a bypass pipe **[4]** and corresponding shut-off valves **[5]** is recommended for maintenance and servicing work.



1. Apply sealing material e.g. PTFE-tape (EN 837-2) to the pipe ends.
2. Screw the pipe thread into the filter inlet until the connection is firm and leak-tight.
3. Screw the pipe thread into the filter outlet until the connection is firm and leak-tight.

After assembly work has been finished, it must be checked whether the housing body has been screwed in properly, the safety slide pushed up and the safety screw tightened hand-tight. A leakage test should be carried out to check the assembly work. For additional information, refer to “9.7 Leakage test” on Page 40.

8. Commissioning

8.1 Warning notices

DANGER	**Operation of plant outside the permissible limit range!**
	Operation of the product and accessories outside the permissible limits and operating parameters, unauthorised intervention and modifications may result in death or serious injury.
	• Adhere to the limits and operating parameters specified on the type plate and in the manual. • Adhere to the installation and ambient parameters. • Check whether the operating parameters have been amended or restricted by the use of accessories. • Adhere to the maintenance intervals.

DANGER	**Pressurised system!**
	Death or serious personal injury can result through contact with fast or suddenly escaping compressed gas or through bursting system parts.
	• Set up a safety area around the working area during all assembly, installation, maintenance and repair work. • Before pressurisation, check all pipe connections and tighten if necessary. • Slowly pressurise the system. • Avoid pressure blows and high differential pressures.

8.2 Commissioning work

For commissioning to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• none	• none	• None

Preparatory tasks	
1.	Assembly finished including subsequent leakage test

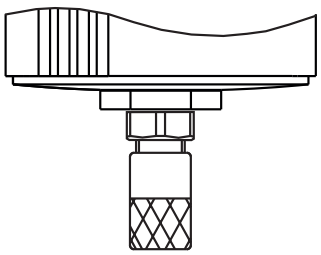
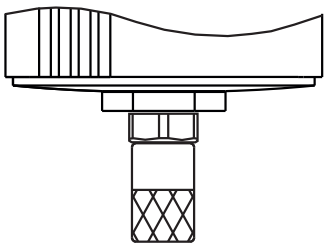
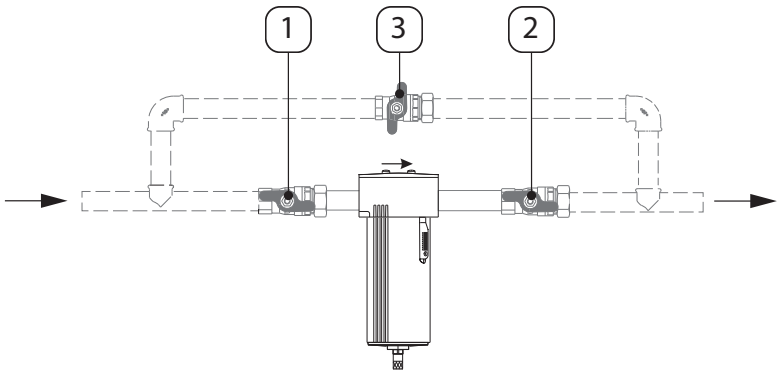
Illustration		Description
Automatic discharge	**Mechanically open**	
		1. Set the knurled screw on the float drain anti-clockwise (left-hand thread) from **"Mechanically open"** to **"Automatic discharge"**

Illustration	Description
	2. Open the shut-off valve **[1]** on the inlet side **slowly** 3. Open the shut-off valve **[2]** on the outlet side **slowly** 4. Close the shut-off valve **[3]** of the bypass pipe

9. Maintenance and servicing

9.1 Warning notices

DANGER	**Pressurised system!**
	Death or serious personal injury can result through contact with fast or suddenly escaping compressed gas or through bursting system parts.
	• All maintenance and repair work on the system must be carried out in the depressurised state and with the system secured against unintentional pressurisation. • Set up a safety area around the working area during all maintenance and repair work. • Before pressurisation, check all pipe connections and tighten if necessary. • Slowly pressurise the system. • Avoid pressure blows and high differential pressures. • Assemble all pipes free of mechanical stress. • Compensate any vibrations occurring in the pipe network by using vibration dampers. • Install the feed and drain lines as fixed pipes.

DANGER	**Use of incorrect spare parts, accessories or materials!**
	The use of incorrect spare parts, accessories or materials, as well as auxiliary and operating materials, may result in death or serious injury. Malfunction and device failure as well as material damage can occur.
	• For all work, only use undamaged original parts, auxiliary and operating materials which are specified by the manufacturer. • Use only the approved materials and suitable tools for the respective purpose and make sure that they are in proper working order. • Only use cleaned pipes that are free of dirt and corrosion.

WARNING	**Insufficient qualification!**
	Insufficient qualification of the personnel carrying out work on the product and accessories can lead to accidents, personal injury and damage to property as well as impair operation.
	• All work on the product and accessories may only be carried out by skilled technical personnel - compressed gas technology and skilled technical personnel - electrical engineering.

9.2 Maintenance schedule

Maintenance	Interval
Cleaning work	At regular intervals, depending on the degree of contamination
Visual inspection	Weekly
Replace the float drain	Annually
Replace the filter element	Annually or with a differential pressure ≥ 0.4 bar
Leakage test	Recommendation: At the end of all assembly as well as maintenance works on the product

9.3 Cleaning

9.3.1 Warning notices

CAUTION	**Inappropriate cleaning and use of the wrong cleaning media!**
	Inappropriate cleaning and the use of the wrong cleaning media may result in minor injuries as well as damage to health and property.
	• Never clean the device with a dripping wet cloth. • Never use abrasive or aggressive cleaning agents or solvents which could damage the outer coating (e.g. labels, type plate, corrosion protection, etc.). • Never clean the device with hard or pointed implements. • For external cleaning, use a dust brush or damp cotton cloths that cannot become statically charged. • Immediately replace any product markings (pictograms, markings) that have become illegible.

NOTE	**Local hygiene regulations!**
	In addition to the cleaning instructions listed, any local hygiene regulations which are in place must be heeded.

9.3.2 Cleaning work

For cleaning to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• none	• Mild detergent • Cotton cloth or disposable tissue	• Protective gloves (fluid-resistant) • Safety goggles with side shields • Hearing protection • Respiratory protection, protection class FFP 3 • Safety footwear

To clean the filter, use a damp (but not wet) cotton cloth or disposable tissue and a mild conventional detergent or soap.

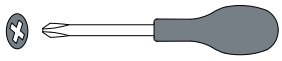
1. Spray a little detergent onto the clean cotton cloth or disposable tissue.
2. Wipe down the entire surface of the component.
3. Then dry using a clean cloth or let it dry at room temperature.

9.4 Visual inspection

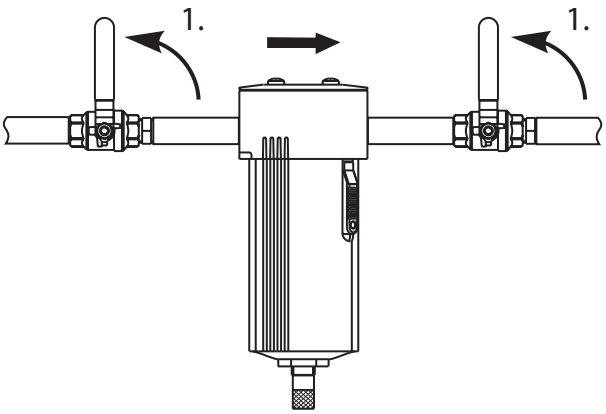
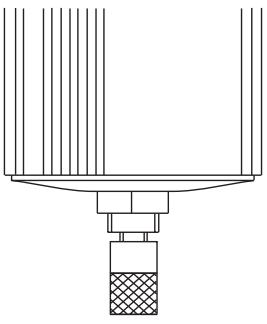
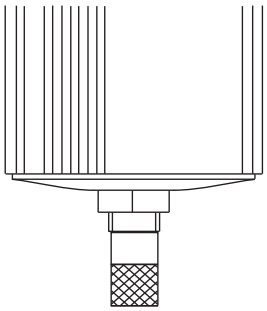
During the visual inspection of the filter, all components must be inspected for mechanical damage and corrosion. Any damaged components must be replaced immediately.

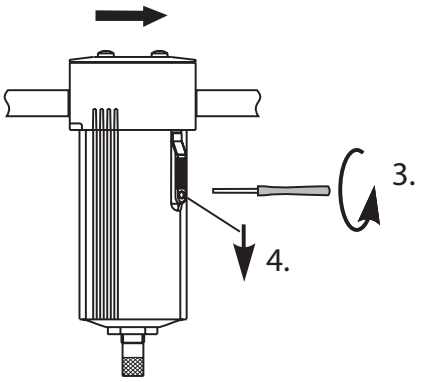
9.5 Replace the float drain

For float drain replacement to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

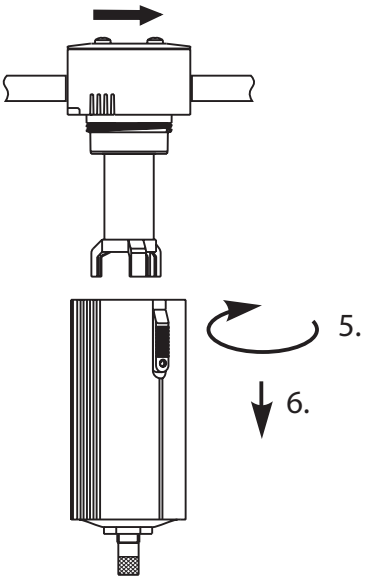
Prerequisites		
Tools	**Material**	**Protective equipment**
• Screwdriver - cross-head size 2.5 mm 	• New float drain with adapter enclosed	• Protective gloves (fluid-resistant) • Safety goggles with side shields • Hearing protection • Respiratory protection, protection class FFP 3 • Safety footwear

Preparatory tasks	
1.	Open the bypass pipe if available

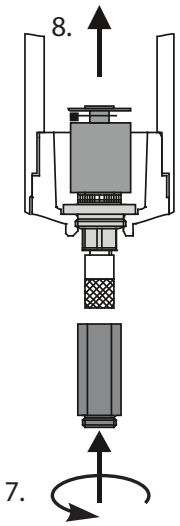
Illustration	Description
	1. Close the shut-off valves upstream and downstream of the filter or the respective system section.
 Automatic discharge  Mechanically open	2. Set the knurled screw on the float drain anti-clockwise (left-hand thread) from "**Automatic discharge**" to "**Mechanically open**".



3. Loosen the locking screw on the safety slide.
4. Push the safety slide downwards.

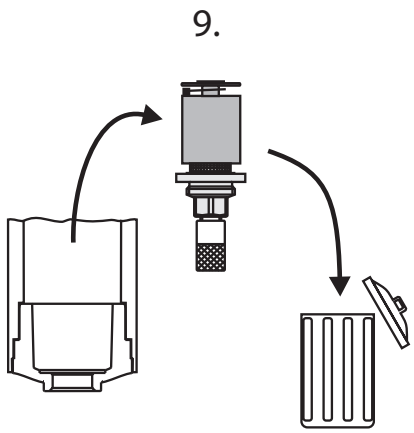


5. Screw the housing body off.
6. Pull the housing body down and off.



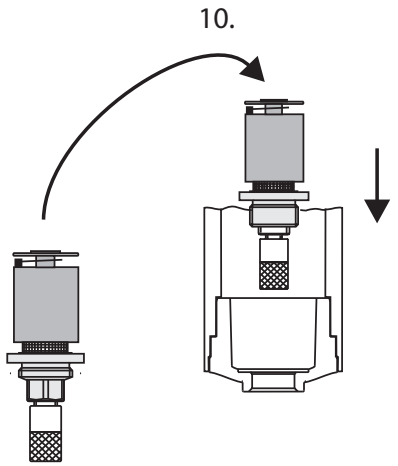
To screw the float drain out, use the size 13 adapter enclosed with the float drain.

7. Use the adapter to screw the float drain out anti-clockwise.
8. Lift the float drain out of the top of the housing body.

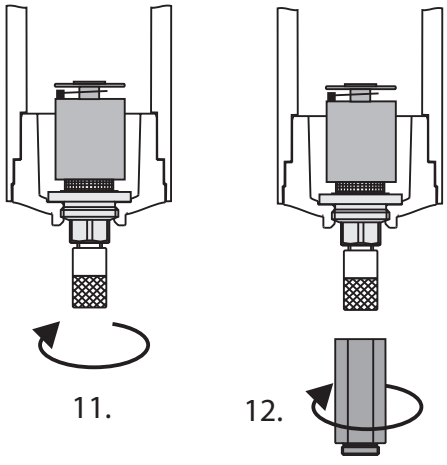


9. Dispose of the float drain properly and in line with the regional requirements.

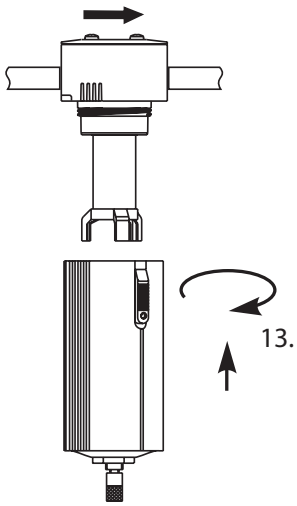
For more information, see “12. Disposal” on Page 45.



10. Insert a new float drain into the housing body.

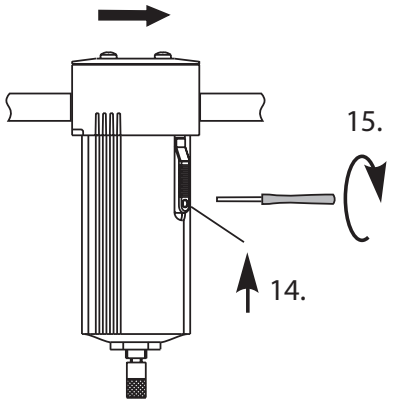


11. Screw the float drain into the housing body clockwise by hand.
12. Tighten the float drain using the adapter.

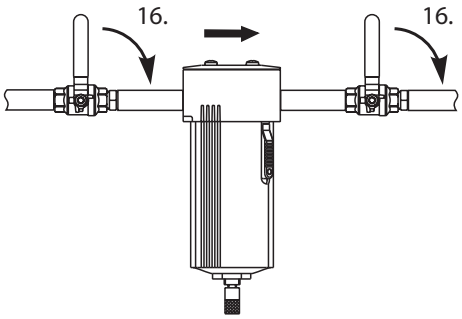


13. Screw the housing body back onto the filter head.

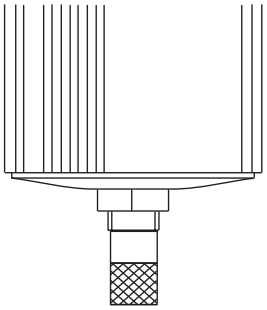
Make sure that the safety slide is facing the front after assembly.



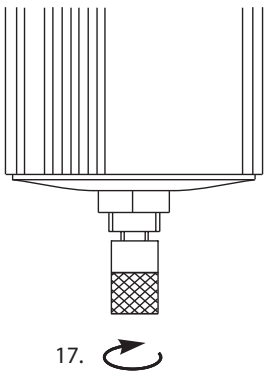
14. Push the safety slide upwards.
15. Tighten the locking screw on the safety slide.



16. Slowly open the shut-off valves upstream and downstream of the filter or the respective system section.



Mechanically open

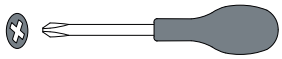


Automatic discharge

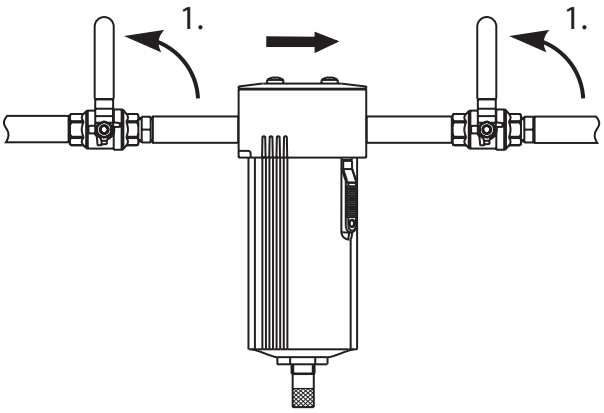
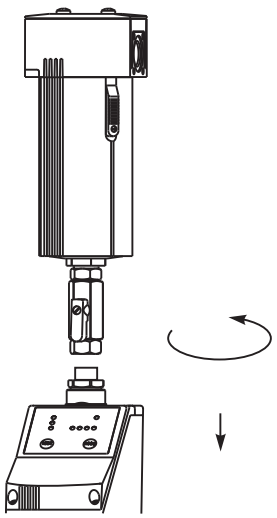
17. Set the knurled screw on the float drain anti-clockwise (left-hand thread) from "**Mechanically open**" to "**Automatic discharge**" by unscrewing the knurled screw as far as it will go.

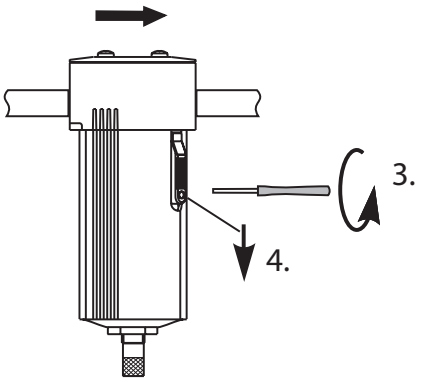
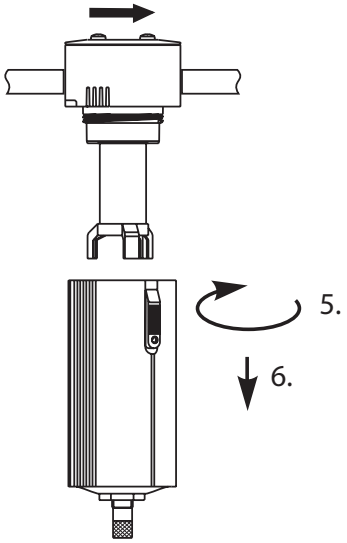
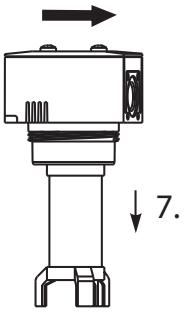
9.6 Replace the filter element

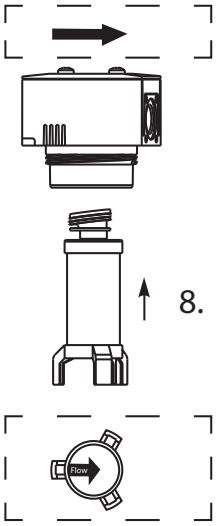
For filter element replacement to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• Screwdriver - cross-head size 2.5 mm 	• New filter element	• Protective gloves (fluid-resistant) • Safety goggles with side shields • Hearing protection • Respiratory protection, protection class FFP 3 • Safety footwear

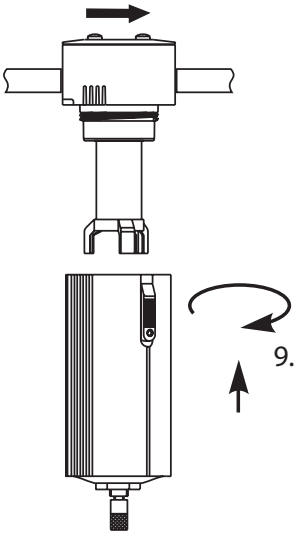
Preparatory tasks	
1.	Open the bypass pipe if available

Illustration	Description
	1. Close the shut-off valves upstream and downstream of the filter or the respective system section and depressurise the filter.
	2. When the **BEKOMAT®** is used, it must be disconnected from the filter base. For further information see the enclosed installation and operation manual for the **BEKOMAT®**.

	3. Loosen the locking screw on the safety slide. 4. Push the safety slide downwards.
	5. Screw the housing body off. 6. Pull the housing body down and off.
	7. Pull the used filter element down and out of the housing head.

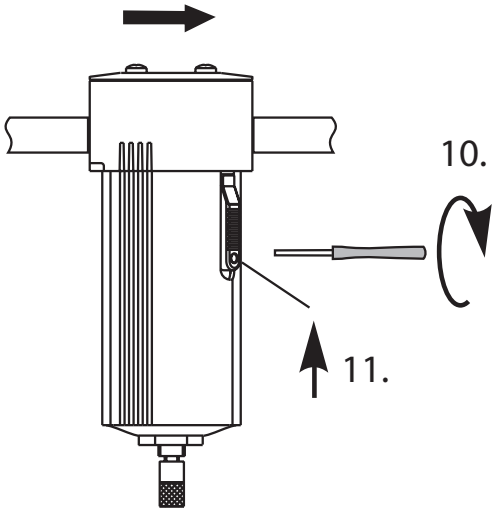


8. Insert the new filter element insert into the housing head.
   The direction of flow indicated on the housing head and the filter element base must match.

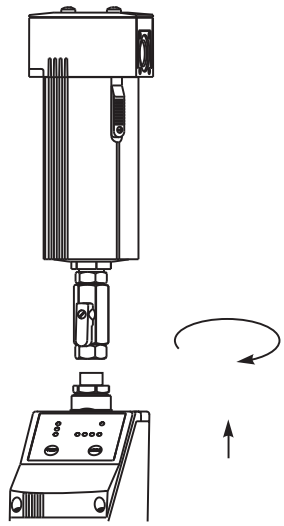
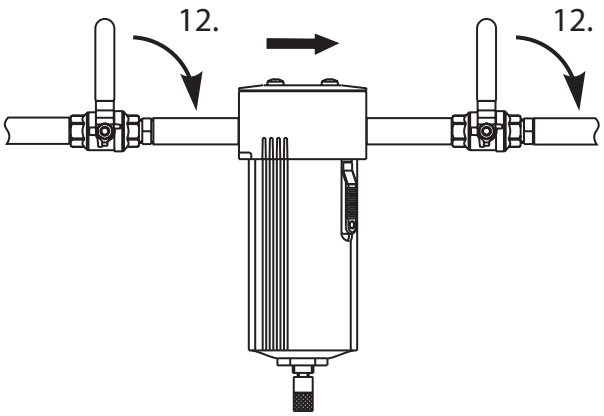


9. Screw the housing body to the housing head.

   Make sure that the safety slide is facing the front.



10. Push the safety slide upwards.
11. Tighten the locking screw on the safety slide.

	12. When the **BEKOMAT**® is used, it must be reconnected. For further information see the enclosed installation and operation manual for the **BEKOMAT**®.
	13. Slowly open the shut-off valves upstream and downstream of the filter or the respective system section.

9.7 Leakage test

The leakage test is a non-destructive test method and is used to prove leak tightness in vacuum and overpressure systems. The leakage test can be carried out in different ways. **BEKO** TECHNOLOGIES GMBH does not make a specific recommendation here. The company operating the compressed gas system is responsible for the selection and specification of the test method to be used, which should be carried out in accordance with valid standards and regulations (e.g. DIN EN 1779).

10. Decommissioning

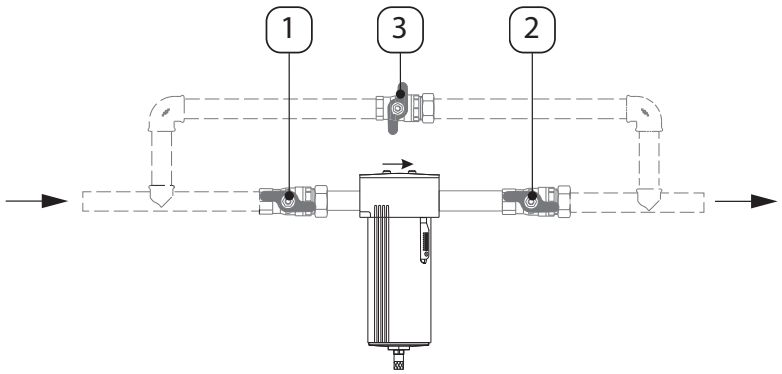
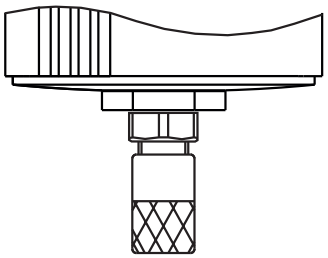
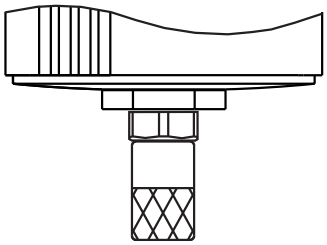
Illustration	Description
	1. Open the shut-off valve **[3]** of the bypass pipe (if available). 2. Close the shut-off valve **[2]** on the outlet side. 3. Close the shut-off valve **[1]** on the inlet side.

Illustration		Description
Automatic discharge	Mechanically open	
		4. Set the knurled screw on the float drain anti-clockwise (left-hand thread) from **"Automatic discharge"** to **"Mechanically open"** or press the **BEKOMAT®** TEST button until the filter is pressureless.

11. Disassembly

11.1 Warning notices

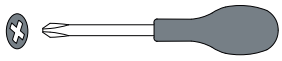
DANGER	**Use of incorrect accessories, materials or spare parts!**
	The use of incorrect spare parts, accessories or installation materials, as well as auxiliary and operating materials, may result in death or serious injury. In addition, malfunction and device failure or material damage can occur.
	• For all disassembly work, only use undamaged original parts, auxiliary and operating materials which are specified by the manufacturer. • Only use fittings and connecting elements approved for the respective application as well as suitable tools in perfect operating condition.

DANGER	**Compressed air**
	Death or serious personal injury can result through contact with fast or suddenly escaping compressed air or through bursting system parts.
	• All work on the system must be carried out in the depressurised state and with the system secured against unintentional pressurisation. • Set up a safety zone around the system during all assembly, installation, maintenance and repair work. • Before pressurisation, check all pipe connections and tighten if necessary. • Slowly charge the piping system with compressed gas. • Avoid pressure blows and high differential pressures. • Assemble all pipes without mechanical stress. Avoid any vibrations occurring in the pipe network by using vibration dampers. • Always keep exactly to the installation and operating instructions given in this manual. • Always keep inspection and maintenance interval exactly. • Install feed and drain lines as fixed pipes. • Do not carry out any structural changes to the product.

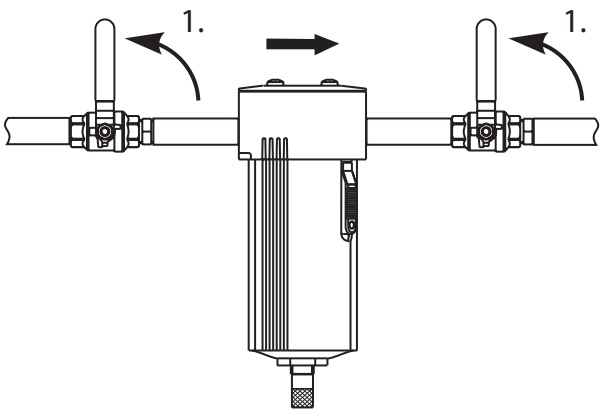
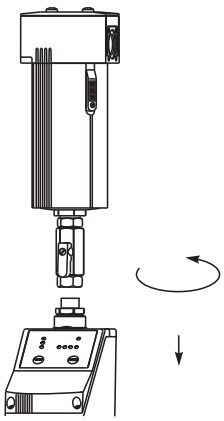
WARNING	**Insufficient qualification!**
	Insufficient qualification of the personnel can lead to accidents, personal injury and damage to the device as well as impairments in operation during work on the product.
	The work on the product described below may only be executed and documented by skilled technical personnel for compressed gas technology.

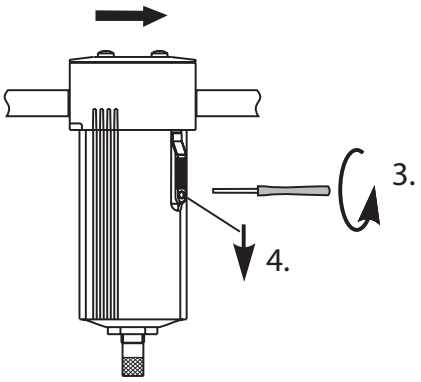
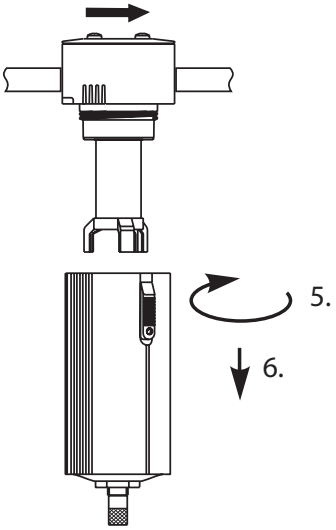
11.2 Disassembly work

For disassembly to be carried out, the following prerequisites must be fulfilled and the preparatory tasks must have been completed.

Prerequisites		
Tools	**Material**	**Protective equipment**
• Screwdriver - cross-head size 2.5 mm 	• none	• Protective gloves (fluid-resistant) • Safety goggles with side shields • Hearing protection • Respiratory protection, protection class FFP 3 • Safety footwear

Preparatory tasks	
1.	Open the bypass pipe if available

Illustration	Description
	1. Close the shut-off valves **[1]** upstream and downstream of the filter or the respective system section, depressurise the filter and secure the piping system against unintentional pressurisation.
	2. When the **BEKOMAT®** is used, it must be disconnected from the filter base. For further information see the enclosed installation and operation manual for the **BEKOMAT®**.

	3. Loosen the locking screw on the safety slide. 4. Push the safety slide downwards.
	5. Screw the housing body off. 6. Pull the housing body down and off. 7. Remove the filter element.

8. Remove the filter head from the pipe and seal the ends of the pipe properly.
9. Dispose of the components properly.

12. Disposal

12.1 Warning notices

DANGER	**Use of incorrect accessories, materials or spare parts!**
	The use of incorrect spare parts, accessories or installation materials, as well as auxiliary and operating materials, may result in death or serious injury. In addition, malfunction and device failure or material damage can occur.
	• For all disassembly work, only use undamaged original parts, auxiliary and operating materials which are specified by the manufacturer. • Only use fittings and connecting elements approved for the respective application as well as suitable tools in perfect operating condition.

NOTE	**Inappropriate disposal!**
	Inappropriate disposal of parts and components, operating and auxiliary materials as well as cleaning media can cause environmental damage.
	• Dispose of all components and parts, operating and auxiliary materials as well as cleaning media professionally and in accordance with regional legal provisions, regulations and requirements. • In case of uncertainties regarding disposal, always consult a regional waste management company.

12.2 Disposal work

At the end of its useful life, the product must be disposed of properly e.g. by a specialist company. Materials such as glass, plastics and some chemical compounds are mostly recoverable, reusable or recyclable.

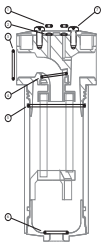
All national and local regulations must be kept during disposal.

Used filter element:
Waste code: 150203
Adsorption and filter materials; cleaning wipes and protective clothing with the exception of those classified by 150202

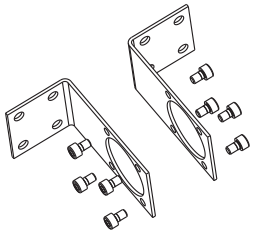
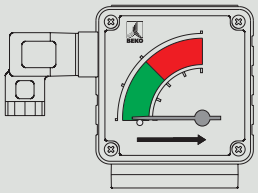
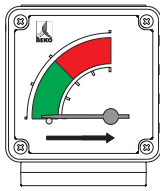
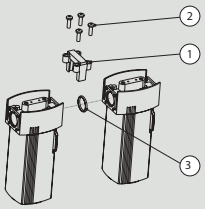
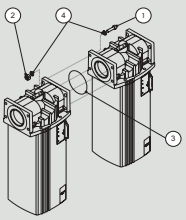
Used float drain:
Do not dispose of as household waste! Disposal must be executed as professional and environmentally sound.

13. Spare parts and accessories

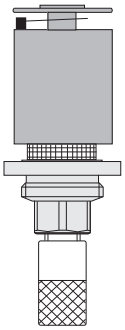
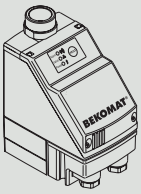
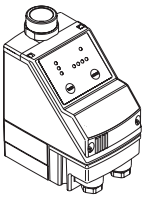
13.1 Spare parts

Designation	Material Nr.	Illustration	Separate documentation
O-ring set for S040, S050, S055	4026562		Enclosed instruction leaflet
O-ring set for S075, M010, M012	4026563		
O-ring set for M015, M018, M020, 022, M023	4026564		
O-ring set for M025, M027, M030, M032	4026565		

13.2 Accessories attachment components top

Designation	Material Nr.	Illustration	Separate documentation
Wall bracket for S040, S050, S055	4003328		None
Wall bracket for S075, M010, M012	4003329		
Wall bracket for M015, M018, M020, M022, M023	4003330		
Wall bracket for M025, M027, M030, M032	4003331		
Differential pressure gauge with potential-free contact	4001481		08-108
Differential pressure gauge without potential-free contact	4001491		08-108
Connecting kit for S040, S050, S055	403332		Enclosed instruction leaflet
Connecting kit for S075, M010, M012	403333		
Connecting kit for M015, M018, M020, M022, M023	403334		
Connecting kit for M025, M027, M030, M032	403335		

13.3 Accessories attachment components bottom

Designation	Material Nr.	Illustration	Separate documentation
Float drain (opened when pressureless)	4025536		Enclosed instruction leaflet
Float drain (closed when pressureless)	4025537		
BEKOMAT® 20	4001841		01-123
BEKOMAT® 20 FM	4003051		01-128
Compressed air heater S040	4012609		08-034
Compressed air heater S050	4012888		

14. Troubleshooting / FAQ

Error or fault pattern	Possible causes	Remedy
Poor compressed gas quality	Excessive load, load surges	• Change operating method • Avoid pressure surges • Observe the prescribed operating parameters, particularly during start-up processes
	Non-functioning condensate discharge	• Guarantee regular condensate discharge
	Incorrect dimensioning	• Dimension the filter according to the given operating parameters and replace if necessary
	Filter element installed incorrectly	• Note the direction of flow / direction of installation of the filter element
	O-ring has been damaged during installation	• Procure new filter element and O-ring, proceed with care during installation
High differential pressure	Incorrect dimensions	• Dimension the filter according to the given operating parameters and replace by larger one if necessary
	Excessive contamination	• Shorten the maintenance interval for filter element replacement • Filtration in stages may be necessary
	Filter elements destroyed	• Change in operating method • Filtration in stages may be necessary
Condensate in downstream components	Condensate drain defective or malfunctioning	• Replace float drain or carry out maintenance on the **BEKOMAT®**
	Cooling downstream of filtration section	• Drying upstream of filtration required
Leakage	Ageing seals	• Replace seals within the context of maintenance work
	Mechanical damage	• Send in the filter for repair or replace by a new one

15. Product approvals and registration marks

Symbol/Pictogram	Description/Explanation
CE	CE marking on the filter Applicable for sizes M020, M022, M025, M027, M030 und M032

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Herstellererklärung

Wir erklären hiermit, dass die nachfolgend bezeichneten Produkte, in den von uns gelieferten Ausführungen gemäß Druckgeräterichtlinie 2014/68/EU Artikel 4 Absatz 3 in Übereinstimmung mit der geltenden guten Ingenieurpraxis ausgelegt und hergestellt werden.

Produktbezeichnung:	Behälter für Gewindefilter
Typbezeichnung:	CLEARPOINT®
Baugröße:	S040, S045, S050, S055, S075, S100, M010, M012, M015, M018
Max. Betriebsdruck:	16 bar (ü)
Beschreibung der Druckgeräte:	Druckgeräte für Fluide der Gruppe 2

Druckgeräte nach Artikel 4 Absatz 3 der Druckgeräterichtlinie 2014/68/EU dürfen nicht die in Artikel 19 genannte CE-Kennzeichnung tragen.

Die Behälter wurden einer hydraulischen Druckprüfung mit 23 bar (ü), und einer Dichtheitsprüfung mit dem Medium Druckluft, bei 7,0 bar (ü) unterzogen. Bei den durchgeführten Prüfungen zeigten sich keine Mängel.

Neuss, 26.02.2020

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Leiter Qualitätsmanagement International

manu_decl_CP_S040-M018_FL2_Kat.0_de_02_2020

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Manufacturer Declaration

We hereby declare that the products indicated hereafter, in the condition in which they have been placed into circulation, have been designed and manufactured according to sound engineering practice, in compliance with Article 4, Paragraph 3 of the European Pressure Equipment Directive 2014/68/EU.

Product designation:	Vessel for threaded filter
Model designation:	CLEARPOINT®
Construction size:	S040, S045, S050, S055, S075, S100, M010, M012, M015, M018
Max. operating pressure:	16 bar(g)
Description of the pressure equipment:	Pressure equipment for fluids of Group 2

Pressure equipment according to Article 4, Paragraph 3 of the European Pressure Equipment Directive 2014/68/EU must not bear the CE marking referred to in Article 19 of the above Directive.

The vessel was subjected to a hydraulic pressure test with 23 bar(g) and a leakage test with a compressed air media at 7.0 bar(g). The vessels passed both tests successfully and no defects were detected.

Neuss, 26.02.2020

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Head of International Quality Management

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EU-Konformitätserklärung

Wir erklären hiermit, dass die nachfolgend bezeichneten Produkte den Anforderungen der einschlägigen Richtlinien und technischen Normen entsprechen. Diese Erklärung bezieht sich nur auf die Produkte in dem Zustand, in dem sie von uns in Verkehr gebracht wurden. Nicht vom Hersteller angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt.

Produktbezeichnung:	Behälter für Gewindefilter CLEARPOINT® …
Modelle:	M020, M022, M023
Max. Betriebsdruck:	16 bar (ü)
Produktbeschreibung und Funktion:	Behälter für CLEARPOINT® Gewindefilter

Druckgeräte-Richtlinie 2014/68/EG

Angewandtes Konformitätsbewertungsverfahren:	Modul A
Kategorie:	I
Beschreibung der Druckgeräte:	Druckgeräte für Fluide der Gruppe 2

Der Hersteller trägt die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung.

Unterzeichnet für und im Namen von:

Neuss, 26.02.2020

BEKO TECHNOLOGIES GMBH

i.V.

i.V. Christian Riedel
Leiter Qualitätsmanagement International

EU_decl_CP_M020-M023_FL2_Kat.I_de_02_2020

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EU Declaration of Conformity

We hereby declare that the products named below comply with the stipulations of the relevant directives and technical standards. This declaration only refers to products in the condition in which they have been placed into circulation. Parts which have not been installed by the manufacturer and/or modifications which have been implemented subsequently remain unconsidered.

Product designation:	Vessel for threaded filters CLEARPOINT®
Types:	M020, M022, M023
Max. operating pressure:	16 bar(g)
Product description and function:	Vessel for CLEARPOINT® threaded filters

Pressure Equipment Directive 2014/68/EU

Applied conformity assessment procedure:	Module A
Category:	I
Description of the pressure equipment:	Pressure equipment for fluids of Group 2

The manufacturer shall have sole responsibility for issuing this declaration of conformity.

Signed for and on behalf of:

Neuss, 26.02.2020

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Head of International Quality Management

EU_decl_CP_M020-M023_FL2_Kat.I_en_02_2020.docx

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EU-Konformitätserklärung

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Produktbezeichnung:	Behälter für Gewindefilter CLEARPOINT® ...
Modelle:	M025, M027, M030, M032
Max. Betriebsdruck:	16 bar (ü)
Produktbeschreibung und Funktion:	Behälter für CLEARPOINT® Gewindefilter

Druckgeräte-Richtlinie 2014/68/EU

Angewandtes Konformitätsbewertungsverfahren:	Modul A2
Kategorie:	II
Beschreibung der Druckgeräte:	Druckgeräte für Fluide der Gruppe 2
Notifizierte Stelle:	TÜV NORD Systems GmbH & Co. KG Große Bahnstraße 31 22525 Hamburg
Zertifikatsnummer:	07/202/1410/Z/0237/17/D/0035

Die Produkte sind mit dem abgebildeten Zeichen gekennzeichnet:

CE 0045

Der Hersteller trägt die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung.

Unterzeichnet für und im Namen von:

Neuss, 26.02.2020

BEKO TECHNOLOGIES GMBH

i.V.

i.V. Christian Riedel
Leiter Qualitätsmanagement International

EU-decl_CP_M025-M032_FL2_Kat.II_de_02_2020

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EU Declaration of Conformity

We hereby declare that the products named below comply with the stipulations of the relevant directives and technical standards. This declaration only refers to products in the condition in which they have been placed into circulation. Parts which have not been installed by the manufacturer and/or modifications which have been implemented subsequently remain unconsidered.

Product designation:	Vessel for threaded filters CLEARPOINT®
Types:	M025, M027, M030, M032
Max. operating pressure:	16 bar(g)
Product description and function:	Vessel for CLEARPOINT® threaded filters

Pressure Equipment Directive 2014/68/EU

Applied conformity assessment procedure:	Module A2
Category:	II
Description of the pressure equipment:	Pressure equipment for fluids of Group 2
Notified body	TÜV NORD Systems GmbH & Co. KG Große Bahnstraße 31 22525 Hamburg Germany
Certificate number:	07/202/1410/Z/0237/17/D/0035

The products bear the CE Mark:

CE 0045

The manufacturer shall have sole responsibility for issuing this declaration of conformity.

Signed for and on behalf of:

Neuss, 26.02.2020

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Head of International Quality Management

EU-decl_CP_M025-M032_FL2_Kat.II_en_02_2020.docx

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