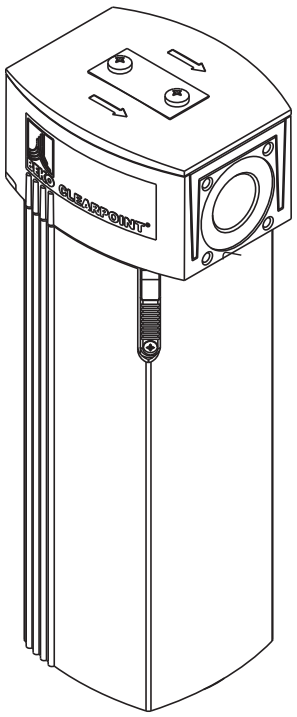
en-us



Installation and operation instructions

CLEARPOINT® Water separator

- S040
- S050
- S075
- M010
- M015
- M020
- M022
- M025
- M030

08-384

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1. General

1.1 Contact

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

1.2 Installation information and operating manual

INFORMATION	Copyright protection
	The content of this installation and operating manual, in the form of text, images, photos, drawings, diagrams, and other illustrations, is copyright protected by the manufacturer. This applies in particular to copies, translations, microfilm versions, and saving and processing this document in electronic systems.

Publication date	Revision version	Reason for change	Scope of change
10/31/18	00_01	Change to standards and directives	Initial creation

This installation and operating manual, referred to in the following as the manual, must be legible and must be stored near the product at all times.

The manual must be included if the product is sold or handed over to another party.

NOTE	Observe the manual!
	This manual contains all basic information required to safely operate the product, and operators must read the manual before carrying out all work. Otherwise hazards could occur for personnel or materials, and functional or operating disruptions could occur.

1.3 Additional valid documents

This manual describes all steps required to install and operate the CLEARPOINT® water separator.

Further information on installing and operating accessories is provided in the following installation and operating manuals:

- BEKOMAT® 20
- BEKOMAT® 20 Vario

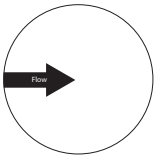
1.4 Explanation of symbols and pictograms used

The symbols and pictograms used in the following indicate important and safety-related information that must be observed in handling the product and to ensure safe and optimal operation.

1.4.1 In documentation

Symbol/pictogram	Description/explanation
	General hazard symbol (danger, warning, caution)
	Pressurized system
	Observe the installation and operating manual
	General instructions
	Use FFP 3 respirator
	Wear safety shoes
	Wear protective gloves (liquid-resistant)
	Wear hearing protection
	Wear safety glasses with side protection (goggles)
	General information

1.4.2 On the device

Symbol/pictogram	Description/explanation
	**General hazard symbol (danger, warning, caution)** (This symbol is indicated on the type plate and maintenance sticker)
	**Observe the installation and operating manual** (This symbol is only indicated on the type plate)
	**Maintenance sticker** This sticker contains a stylized illustration indicating that the user manual must be read before completing maintenance work and that the product must be depressurized before maintenance work.
	**Stamp water separator insert** (This stamp is on the base of the water separator insert and indicates the direction of flow.

1.5 Intended use

CLEARPOINT® Water Separator and Accessories

The CLEARPOINT® water separator, also referred to in the following document as the separator, serves to separate drops of liquid and solid particles in pressurized gas systems.

Any other use besides that described in this manual is deemed improper and poses a risk to personnel and the environment.

- Only use the separator and accessories within the operating parameters and agreed delivery conditions indicated in the technical data.
- Only use the separator and accessories in a pipeline system designed to handle the technical data indicated, with appropriate connections, pipe diameters and installation space.
- Only use the separator and accessories to process fluid group 2 compressed gases free from aggressive and corrosive components in accordance with Pressure Directive 2014/68/EU.
- Only use the separator and accessories in non-explosive areas.
- Only use the separator and accessories in areas not exposed to direct sunlight or heat sources and in areas not in danger of frost.
- Only combine the separator and accessories with recommended products indicated in the manual from **BEKO** TECHNOLOGIES GMBH.

Before using the separator, the operator must ensure that all conditions and requirements for the intended use have been fulfilled.

The separator is designed only for stationary use in a commercial or industrial area. All work described for mounting, installation, operating, removal and disposal may only be carried out by qualified professional technicians.

1.6 Foreseeable misuse

If the separator or accessories are used in a manner other than as described in the “Proper use” chapter, this is considered foreseeable misuse. Foreseeable misuse includes using the product in a manner not intended by the manufacturer or suppliers, but which may occur due to foreseeable human behavior.

Foreseeable misuse includes:

- Completing modifications of all kinds, in particular changing the design or process technology, since this may result in personal injury and property damage as well as functional and operating disruptions.
- Disabling or failing to use available or recommended safety equipment.
- Using compressed gases for preparation that are not included in fluid group 2 in accordance with DGRL 2014/68/EU or contain aggressive components. In case of doubt, complete a gas / condensate analysis.

This list does not claim to be exhaustive, since it is not possible to indicate all possible misuses in advance. If the operator knows of misuses of the separator or accessories that are not listed here, the manufacturer must be informed of these promptly.

1.7 Warranty and liability

The operator and user must take the proper use into consideration. The operator shall be solely responsible for any action not described here and any use going beyond that described as proper use.

All warranty shall be voided, if the separator is used improperly, for a purpose other than the intended or is operated outside the limits specified in the technical data. In such cases, the manufacturer shall also reject any liability for damages.

Improper operation includes:

- Technically inappropriate installation, commissioning, maintenance or operation
- Use of defective components
- Failure to observe the safety-relevant information, usage steps and instructions included in this manual
- Completing modifications of any kind, in particular design or process technology changes to the product
- Use of third-party spare parts or accessories that have not been approved by the manufacturer in completing maintenance and repair work
- Failure to observe maintenance and inspection intervals

1.8 Target audience and personnel

This manual is directed towards the following professional technicians assigned to work on the separator or accessories.

INFORMATION	Personnel requirements
	Personnel may not complete any work on or with the separator or accessories if they are under the influence of drugs, medications, alcohol or other substances that could impair their awareness.

Professional technicians - Transport and storage
Transportation and storage technicians are personnel whose training, professional experience and qualifications have given them all the skills necessary to safely complete any actions associated with transportation, to recognize potential hazards independently and take measures to prevent those hazards. These skills include, in particular, experience in handling hoists, forklifts and lifting equipment and devices as well as an understanding of regional applicable laws, standards and directives related to transportation and storage.

Compressed gas technology technicians
Compressed gas technology technicians are personnel whose training, professional experience and qualifications have given them all the skills necessary to safely complete any actions associated with compressed gases and pressurized systems, to recognize potential hazards independently and take measures to prevent those hazards. These skills include, in particular, experience in handling measurement, control and regulation technology as well as an understanding of regional applicable laws, standards and directives related to compressed gas technology.

1.9 Responsibilities of the operator

The responsible operator must ensure the following to avoid accidents, faults and environmental impacts:

- Check before all actions whether this manual matches the product.
- Ensure the product is used, maintained, and repaired properly.
- Ensure that all applicable legal specifications, safety provisions and accident prevention regulations are complied with.
- Ensure that all specifications and operating instructions for safe work and instructions for how to respond to accidents and fires are accessible at the work site to personnel at all times.
- Ensure the product is used with recommended and functional safety equipment and that this equipment has not been deactivated.
- Ensure all assembly, installation and maintenance work is only carried out by qualified professional technicians.
- Ensure the recommended personal protective equipment is available and is used.
- Ensure suitable technical safety measures are taken to ensure the permitted operating parameters are not exceeded and are met.

2. Safety information

2.1 General information

Safety information warns of hazards related to handling the product. In the instructions, warning information is stated before the steps that could pose a hazard to personnel or the surrounding area.

This safety and warning information must always be observed to avoid accidents, personal injury and property damage, and operational disruptions.

Structure of the safety information

Content of the safety information structured according to the SAFE principle:

S - Safety symbol and signal word
A - Type and source of danger
F - Possible consequences for failure to observe the hazard in the order of severity
E - Measures to avoid the hazard

Structure of the safety information:

SIGNAL WORD	Type and source of danger!
 Safety indications	Possible consequences if the hazard is not observed
	• Measures to avoid the hazard

Signal words according to ISO 3864 and ANSI Z.535.6

DANGER	**Imminent danger** Consequences of non-compliance: Death or severe personal injury
WARNING	**Imminent danger** Consequences of non-compliance: Death or severe personal injury are possible
CAUTION	**Potential danger** Consequences of non-compliance: injury and/or damage to property
NOTICE	**Additional notes, tips and hints** Consequences of non-compliance: Disadvantages in operation and during handling and maintenance. No hazard to personnel or safe operation.

2.2 Safety instructions

Always observe the safety and warning information provided to avoid accidents, personal injury and property damage, and operational disruptions.

The personal protective equipment indicated in the safety information must be selected by the operator based on the system parameters and properties and must be provided.

DANGER	**Operating outside of permitted limit values!**
	Operating the product outside of the permitted limit values and parameters and prohibited modifications and changes pose the risk of death or a hazard of severe injuries.
	• Observe the limit values, operating parameters and maintenance intervals and set-up and ambient conditions indicated on the type plate and in the manual to ensure safe operation of the product. • Check whether operating parameters are changed or restricted through the use of accessories. • Only use the product according to its intended use.

DANGER	**Pressurized system!**
	The risk of death or severe injuries exists in case of contact with fast or sudden exiting compressed air or due to bursting system parts.
	• Only work on the system when it is depressurized and secure the system against unintended restart. • Set up a safety zone around the system when carrying out any assembly, installation, maintenance and repair work. • Before pressurizing the system, check and tighten all pipe connections. • Pressurize the system slowly. • Avoid pressure surges and high pressure differentials. • Install all pipelines without mechanical tension. Avoid vibrations occurring in the pipeline network by using vibration dampers. • Carefully observe the installation and operating instructions in this manual. • Carefully observe inspection and maintenance intervals. • Permanently install inlet and outlet lines. • Do not make modifications on the product.

DANGER	**Use of incorrect replacement parts, accessories or installation materials!**
	The use of incorrect replacement parts, accessories or installation material or operating and auxiliary materials may result in death or severe injuries. This may also cause functional or operating disruptions or material damage.
	• Only use undamaged original parts, auxiliary and operating materials for all installation and maintenance work as indicated by the manufacturer. • Only use fittings and connection elements permitted for the specific application and suitable tools in proper condition. • Only use cleaned pipelines free from dirt and corrosion.

WARNING	**Failure to use personal protective equipment!**
	The failure to use personal protective equipment or the use of defective personal protective equipment may result in accidents or injuries while working on the product.
	• Wear personal protective equipment recommended for the specific task in proper condition when completing any work on the product. • Regularly check personal protective equipment for proper function and replace damaged parts promptly.

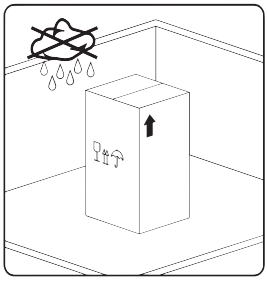
WARNING	**Insufficient qualification!**
	If personnel have insufficient qualifications, this may result in accidents, personal injury and property damage as well as operating disruptions while working on the product.
	All work on the product may only be carried out by sufficiently qualified professional technicians.

3. Transport and storage

WARNING	**Insufficient qualification!**
	If personnel have insufficient qualifications, this may result in accidents, personal injury and property damage as well as operating disruptions while working on the product.
	The work on the product described in the following may only be carried out by transportation and storage technicians and must be documented.

CAUTION	**Improper transportation or storage!**
	Improper transportation or storage may result in personal injury or property damage.
	• Always wear gloves when working with packaging materials. • Use personal protective equipment, check it regularly for proper function and replace damaged parts promptly. • The product must only be transported and stored by transportation and storage technicians. • Handle the packaging and product carefully. • Package all parts with suitable materials in a shock-resistant manner. • Transport and handle packaging according to the label (observe hoist attachment points and center of gravity, keep alignment vertical, do not throw, etc.) • Use proper, functional transportation equipment and hoists. • Observe permitted transportation and storage parameters. • Do not store the product exposed to direct sunlight and heat sources.

NOTICE	**Handling packaging materials!**
	The improper disposal of packaging materials may result in environmental damage.
	• The packaging material is recyclable. • Dispose of packaging materials in accordance with the regional laws, directives and guidelines of the country of use.

NOTICE	**Transportation and storage notices!**
	The product must • be stored in the original packaging in a closed, dry, and frost-free room. The ambient conditions, transportation and storage parameters may not exceed or fall below the information in the Technical Data chapter. • Even when packaged, protect the device against the elements. • While in storage, secure the device so that it cannot topple over or fall, and protect it against vibration.

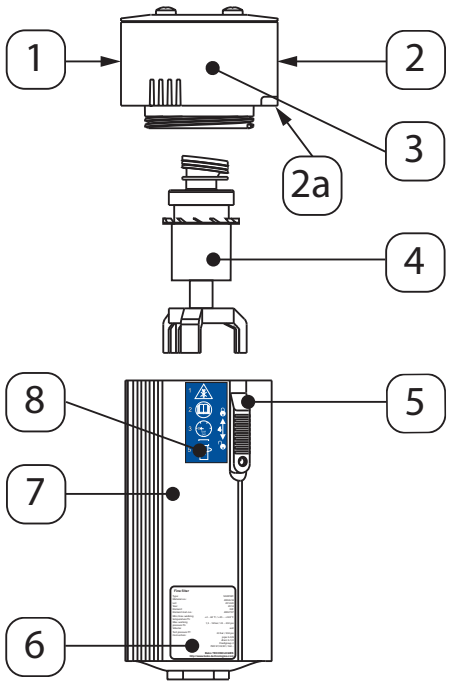
4. Product information

4.1 Product description

CLEARPOINT® water separators are used to separate drops of liquid and solid particles in compressed gas pressurized systems.
The condensate collected during separation can be drained manually or automatically.

4.2 Product overview

The separator consists of the following components:



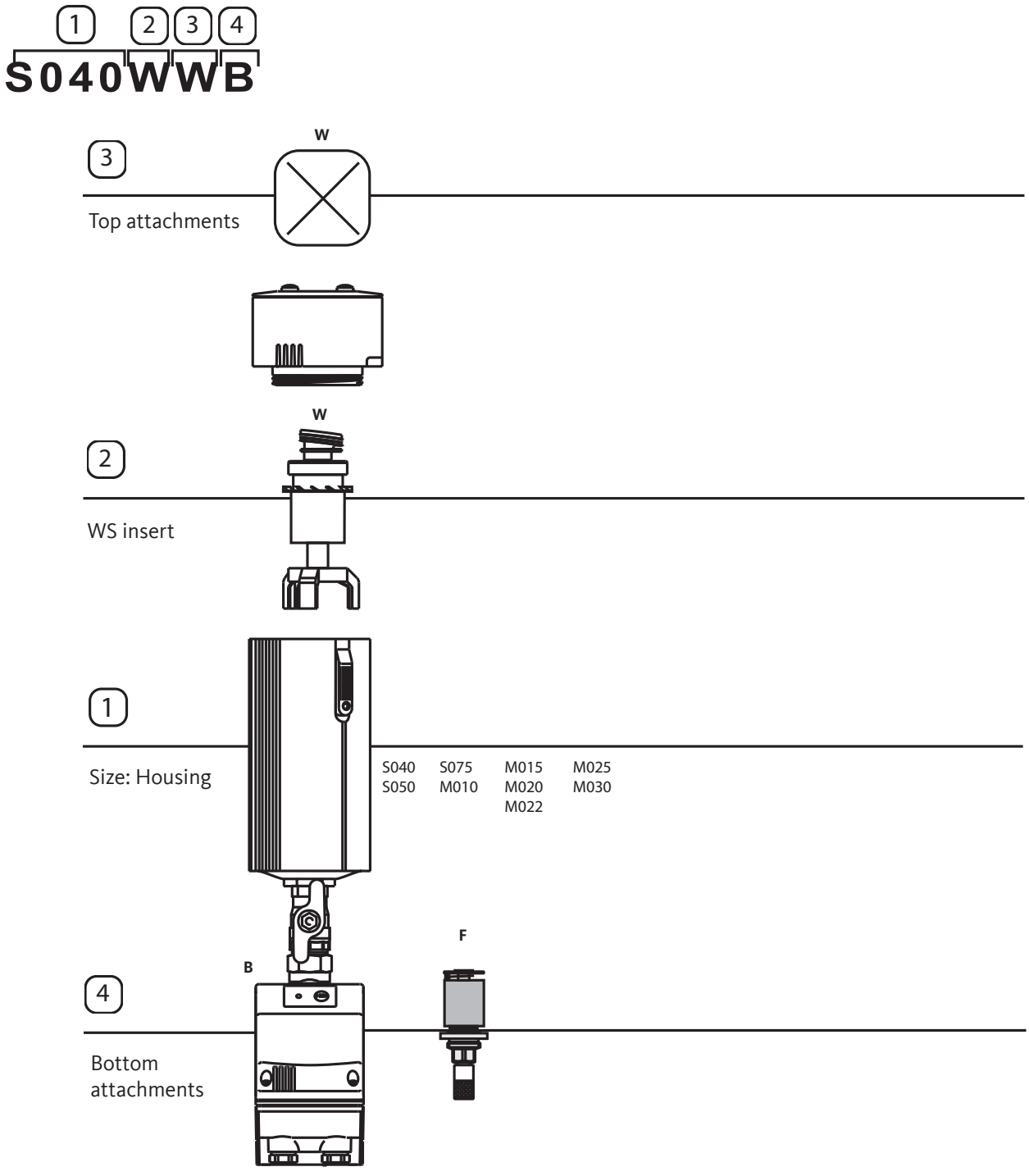
Position no.	Explanation / description
[1]	Inlet on the separator head,
[2]	Outlet on the separator head also designated with 2a
[3]	Housing head
[4]	Water separator insert (WS insert)
[5]	Safety runner with locking screw
[6]	Name plate
[7]	Housing body
[8]	Maintenance sticker

4.3 Product identification

The product designation is indicated on the type plate and consists of numbers and an abbreviation. Each abbreviation stands for a separator component and is divided into the following categories:

[1] = Size: Housing
[2] = WS insert
[3] = Top attachments
[4] = Bottom attachments

The following section explains the product designation using the example **"S040WWB"**:



Top attachments		
Position no.	Abbreviation	Designation
[3]	W	No display device

Water separator inserts		
Position no.	Abbreviation	Designation
[2]	W	Water separator

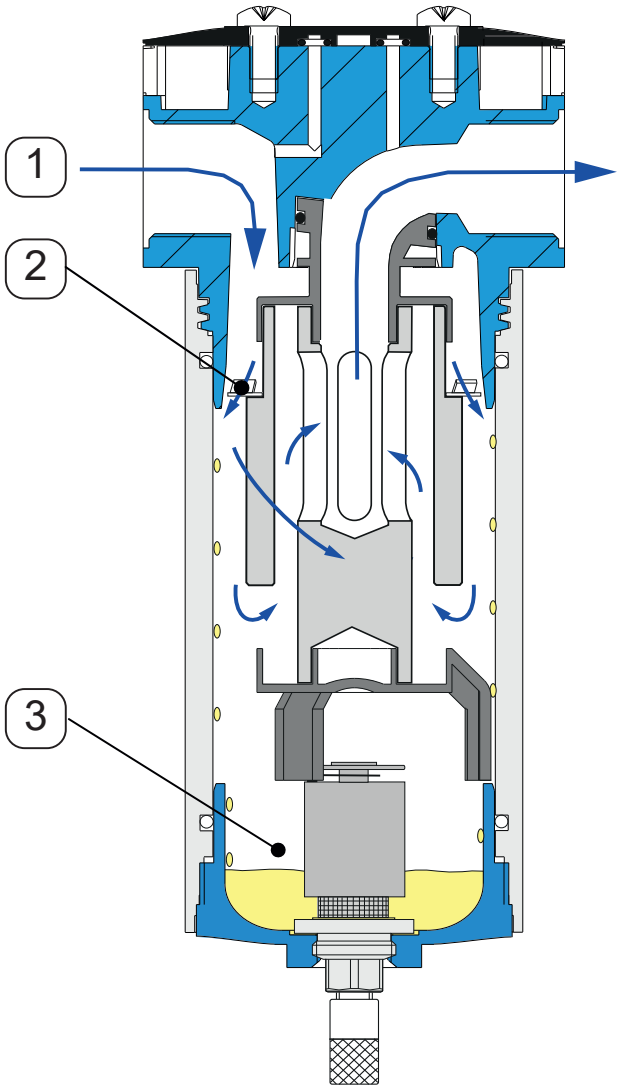
Position no.	Model series	Size	Designation
[1]	S	040	Size Housing
	S	050	
	S	075	
	M	010	
	M	015	
	M	020	
	M	022	
	M	025	
	M	030	

Bottom attachments		
Position no.	Abbreviation	Designation
[4]	B	BEKOMAT® 20
	F	Float drain, open when depressurized (NO - normally open)

4.4 Functional description

4.4.1 Water separation

The compressed gas enters the inlet on the separator head **[1]** and passes into the water separator. A specially formed swirl insert **[2]** makes the compressed gas rotate quickly. The centrifugal forces generated press the condensate particles against the housing wall. Gravity causes the condensate particles to flow down into the collector chamber **[3]**, from which they are drained.

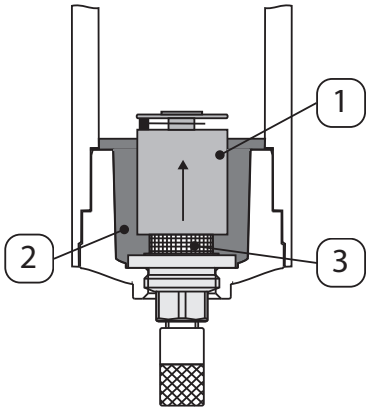
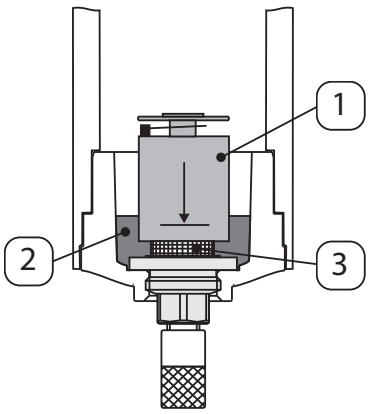


4.4.2 Condensate drainage through the float drain

Float drains are mechanical automatic condensate drains whose closing mechanism is triggered by the buoyancy of a float body **[1]**. When the condensate **[2]** in the container raises above a certain level, the buoyant lift of the float body **[1]** opens the outlet channel **[3]** for the condensate. The float closes again when the condensate **[1]** drops below a certain level: A small amount of condensate remains in the container.

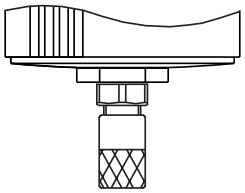
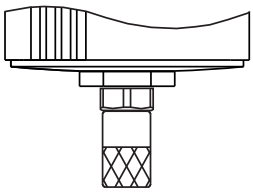
Two different float drains are used to drain the condensate:

- Open when depressurized ([NO] normally open) - at an operating pressure ≤ 0.5 bar(ü) the float drain opens
- Closed when depressurized ([NC] normally closed) - the float drain is closed even at an operating pressure of 0 bar(ü)

Float drain opens	Float drain closes
	

Both types of float drain are delivered in the position ››Automatic drainage‹‹. The knurled-head screw is screwed down to the stop.

To test the drainage function or release pressure to the separator to complete maintenance, the float drain can be set to the position ››mechanically open‹‹. To do so, unscrew the knurled-head screw counterclockwise (left-hand turn) to stop.

Automatic drain	Mechanically open
	

INFORMATION	Condensate discharge!
	Condensate discharge is dependent on the product combination and may vary.

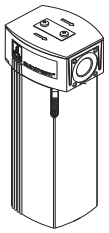
For further information on possible product combinations see “4.3 Product identification” on page 14.

4.4.3 Condensate discharge by BEKOMAT

Condensate may also be discharged via the automatic BEKOMAT® steam trap.
Further information is provided in the BEKOMAT® installation and operating manual.

4.5 Scope of delivery

The following table shows the scope of delivery for the separator.

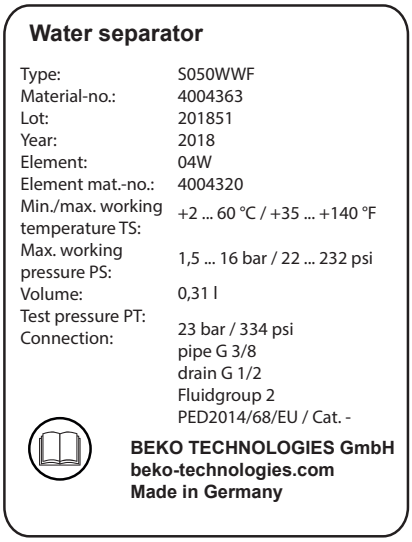
Image	Description/explanation
	Separator
	Installation and operation instructions

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

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

4.6 Name plate

The type plate is located on the housing, and provides identification and operating parameters for the separator. Provide this data for system identification when contacting the manufacturer or supplier.



Example illustration

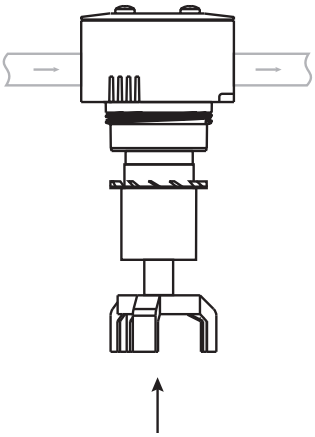
Position on type plate	Description
Water separator	BEKO separator designation
Type	Sales designation
Material-no.	Material number
Lot	Lot
Year	Year of manufacture
Element	Water separator insert
Element mat-no.	Material number water separator insert
Min./max. working temperature TS	Min./max. working temperature range
Max.working pressure PS	Max. working pressure range
Volume	Housing volume
Test Pressure PT	Test pressure
Connection	Threaded connections
pipe G 1/2	Inlet pipe threaded connection
drain G 1/2	Condensate drain threaded connection
Fluid group 2	Fluid group 2 according to PED 2014/68/EU
PED2014/68/EU / Cat. -	Category in accordance with Pressure Directive 2014/68/EU

NOTICE	**Handling the type plate!**
	Do not remove or cover the type plate, and protect it against damage.

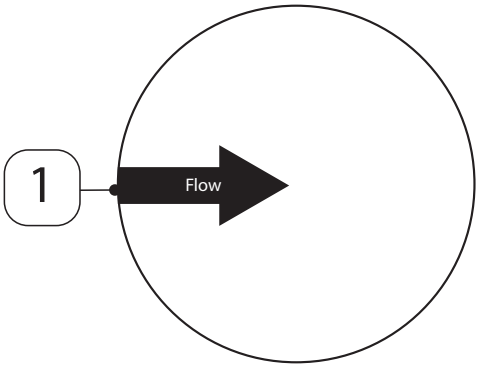
For more information regarding the symbols printed on the type plate, see “1.4 Explanation of symbols and pictograms used” on page 5.

4.7 Stamp water separator insert

The WS insert can be identified by a stamp on the element base.



Stamp on the base of the WS insert



Stamp water separator insert
-
View of element base

Position no.	Explanation / description
[1]	Direction of flow

5. Technical data

5.1 Separator performance data

CLEARPOINT®	S040	S050	S075	M010	M015
Connection ["]	3/8	1/2	3/4	1	1 1/2
Volume flow rate at 7bar(g) (101.53 psi(g)) energy-optimized [m³/h]([cfm]) *1	46 (27.08)	130 (76.52)	195 (114.77)	325 (191.29)	545 (320.76)
Differential pressure [mbar] ([psi]) saturated	Ø 60 (0.878)				
Category according to PED 2014/68/EU	-	-	-	-	-
Min./max. operating pressure[bar(g)] ([psi(g)])	1,5 ... 16 (21.76 ... 232)				
Min./max. Operating temperature [°C] ([F°])	+2 ... +60 (+35.6 ... +140)				
Load test in accordance with AD2000	10000 load changes ≙ pressure differential ≥3.2 bar (46.41 psi) at 16 bar(g) (232 psi(g))				
Medium	Compressed gases in fluid group 2 in accordance with PED 2014/68/EU, free from aggressive and corrosive components				
Weight [kg] ([lbs])	0.75 (1.65)	0.85 (1.87)	1.7 (2.36)	2.1 (4.63)	4.1 (9.04)
Volume [l] ([gal(US)])	0.25 (0.066)	0.31 (0.082)	0.87 (0.23)	1.12 (0.30)	2.52 (0.67)

*1 Volume flow rate at 7 bar(g)(101.53 psi(g)) based on +20 °C (+68 °F) and 1 bar (abs) (14.5 psi)

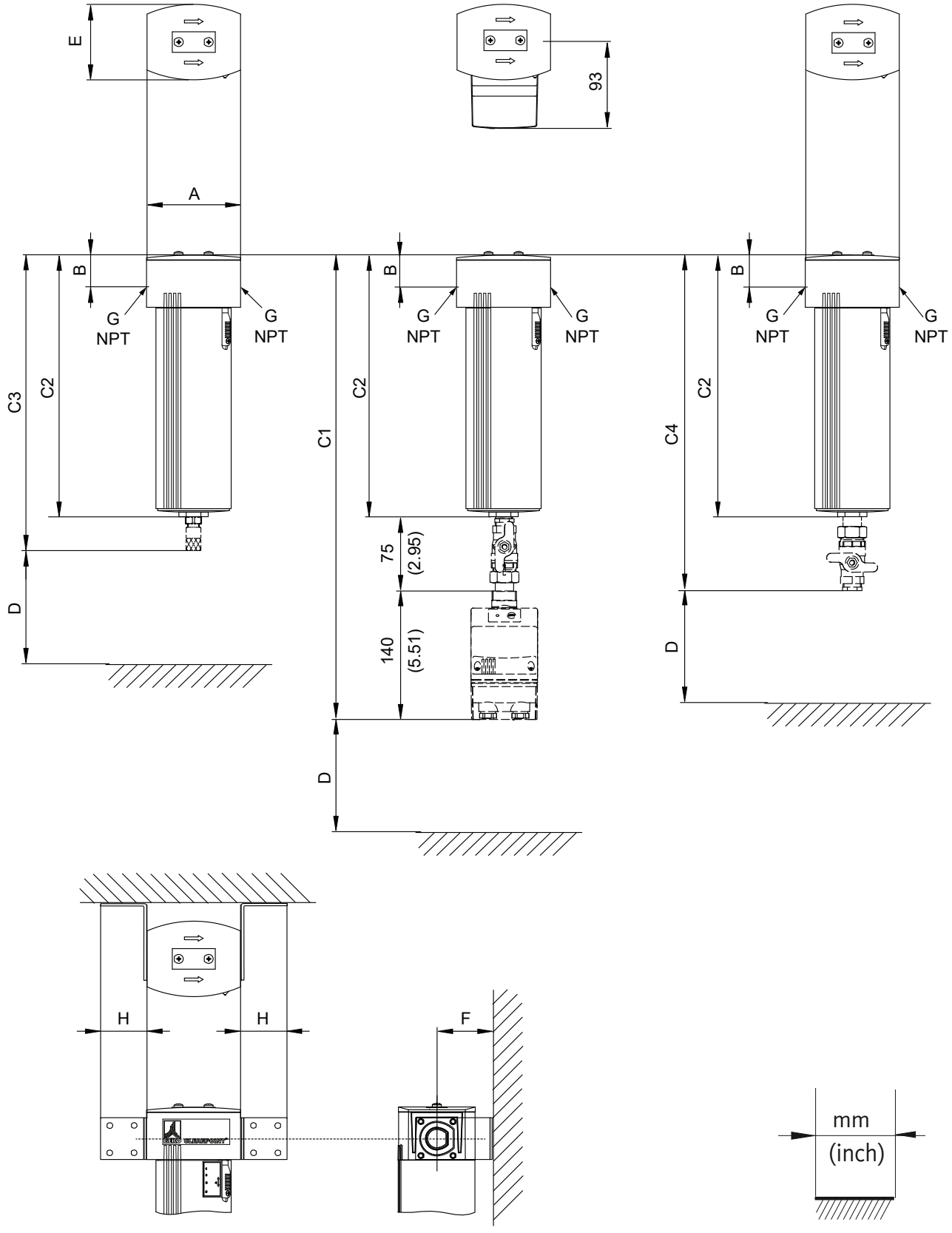
CLEARPOINT®	M020	M022	M025	M030
Connection ["]	2	2	2 1/2	3
Volume flow rate at 7bar(g) (101.53 psi(g)) energy-optimized [m³/h]([cfm])	1015 (579.407)	1325 (779.87)	2100 (1236.01)	3120 (1836.36)
Differential pressure [mbar] ([psi]) saturated	Ø 60 (0.878)			
Category according to PED 2014/68/EU	I	I	II	II
Min./max. operating pressure[bar(g)] ([psi(g)])	1,5 ... 16 (21.76 ... 232)			
Min./max. Operating temperature [°C] ([F°])	+2 ... +60 (+35.6 ... +140)			
Load test in accordance with AD2000	10000 load changes ≙ pressure differential ≥3.2 bar (46.41 psi) at 16 bar(g) (232 psi(g))			
Medium	Compressed gases in fluid group 2 in accordance with PED 2014/68/EU, free from aggressive and corrosive components			
Weight [kg]([lbs])	5.1 (11.24)	6.1 (13.45)	19.9 (43.87)	25.9 (57.1)
Volume [l] ([gal(US)])	3.40 (0.9)	4.23 (1.12)	13.9 (3.67)	19.5 (5.51)

*1 Volume flow rate at 7 bar(g)(101.53 psi(g)) based on +20 °C (+68 °F) and 1 bar (abs) (14.5 psi)

5.2 Materials

Components	Material
Housing head (separator head)	S040 ... M012: Aluminum (cast), anodized, powder coated M015 ... M030: Aluminum (sand cast), anodized, powder coated
Housing body	S040 ... M030: Aluminum (extruded profile), anodized, powder coated
Housing lid	Polyamide PA6, 30 % fiberglass reinforced
Housing base	S040 ... M012: Aluminum (cast), anodized, powder coated M015 ... M030: Aluminum (sand cast), anodized, powder coated
M5 screws	Steel, black galvanized
Runner	Zinc (cast), seal FKM
O-rings	Standard: NBR | oil-free FKM
Float drain	Plastic | Brass | NBR
Manual drain	Brass
Wall bracket	Stainless steel
Sticker	PCV soft, poly acrylate adhesive
BEKOMAT®	See BEKOMAT® installation and operating manual
Differential pressure gauge	See differential pressure gauge installation and operating manual
Oil check indicator	See oil check indicator installation and operating manual
WS insert	Polyamide PA6, 30 % fiberglass reinforced Polyamide PA6 E natural Stainless steel expanded metal

6. Dimensions



Separator	Connection thread	A	B	C1	C2	C3	C4	D	E	F	H	WS insert
	G / NPT [inch]	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	[mm] ([inch])	
S040 (Type)	3/8	75 (2.95)	28 (1.1)	395 (15.55)	180 (7.09)	208 (8.19)	243 (9.57)	150 (5.91)	60 (2.36)	64.5 (2.54)	39.5 (1.56)	04 W
S050 (Type)	1/2	75 (2.95)	28 (1.1)	425 (16.73)	210 (8.27)	238 (9.37)	273 (10.75)	150 (5.91)	60 (2.36)	64.5 (2.54)	39.5 (1.56)	05 W
S075 (Type)	3/4	100 (3.94)	34 (1.34)	495 (16.73)	280 (11.02)	308 (12.13)	343 (13.5)	150 (5.91)	80 (3.15)	63 (2.48)	45 (1.77)	07 W
M010 (Type)	1	100 (3.94)	34 (1.34)	565 (22.24)	350 (13.78)	378 (14.88)	413 (16.26)	150 (5.91)	80 (3.15)	63 (2.48)	45 (1.77)	10 W
M015 (Type)	1 1/2	146 (5.75)	48 (1.89)	580 (22.83)	365 (14.37)	384 (15.12)	428 (16.85)	200 (7.87)	120 (4.72)	78.5 (3.09)	60 (2.36)	15 W
M020 (Type)	2	146 (5.75)	48 (1.89)	683 (26.89)	468 (18.43)	487 (19.17)	531 (20.91)	200 (7.87)	120 (4.72)	78.5 (3.09)	60 (2.36)	20 W
M022 (Type)	2	146 (5.75)	48 (1.89)	780 (30.71)	565 (22.24)	584 (22.99)	628 (24.72)	200 (7.87)	120 (4.72)	78.5 (3.09)	60 (2.36)	22 W
M025 (Type)	2 1/2	260 (10.24)	77 (3.03)	886 (34.88)	671 (26.42)	684 (26.93)	734 (28.9)	300 (11.81)	200 (7.78)	130 (5.12)	120 (4.72)	25 W
M030 (Type)	3	260 (10.24)	77 (3.03)	1010 (39.76)	895 (35.24)	908 (35.75)	958 (37.72)	300 (11.81)	200 (7.78)	130 (5.12)	120 (4.72)	30 W

7. Installation

7.1 Warning

DANGER	**Use of incorrect replacement parts, accessories or installation materials!**
	The use of incorrect replacement parts, accessories or installation material or operating and auxiliary materials may result in death or severe injuries. This may also cause functional or operating disruptions or material damage.
	• Only use undamaged original parts, auxiliary and operating materials for all installation and maintenance work as indicated by the manufacturer. • Only use fittings and connection elements permitted for the specific application and suitable tools in proper condition. • Only use pipelines free from dirt, damage and corrosion.

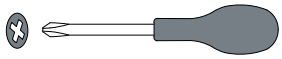
DANGER	**Pressurized system!**
	The risk of death or severe injuries exists in case of contact with fast or sudden exiting compressed air or due to bursting system parts.
	• Only work on the system when it is depressurized and secure the system against unintended restart. • Set up a safety zone around the system when carrying out any assembly, installation, maintenance and repair work. • Before pressurizing the system, check and tighten all pipe connections. • Pressurize the system slowly. • Avoid pressure surges and high pressure differentials. • Install all pipelines without mechanical tension. Avoid vibrations occurring in the pipeline network by using vibration dampers. • Pipelines must be able to support the additional weight of the separator. Additional attachments should be mounted if necessary. • Carefully observe the installation and operating instructions in this manual. • Carefully observe inspection and maintenance intervals. • Permanently install inlet and outlet lines. • Do not make modifications on the product.

WARNING	**Insufficient qualification!**
	If personnel have insufficient qualifications, this may result in accidents, personal injury and property damage as well as operating disruptions while working on the product.
	All work on the product may only be carried out by sufficiently qualified professional technicians.

CAUTION	**Improper installation!**
	Improper installation of the product may result in personal injury, material damage, and operating disruptions.
	• The direction of flow for the separator must conform to the direction of flow in the pipeline. • The separator must be mounted vertically in the pipeline.

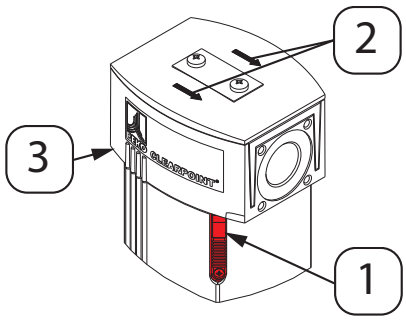
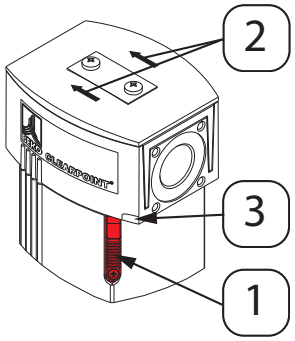
7.2 Installation work

The following requirements must be fulfilled to carry out installation work and preparatory work must be completed.

Preconditions		
Tool	**Material**	**Protective equipment**
• Screwdriver - Philip's head size 2.5 mm 	• Additional installation and operating instructions for accessories used • Sealing material such as PTFE strip (EN 837-2)	• Protective gloves (liquid-resistant) • Safety glasses with side protection (goggles) • Hearing protection • Class FFP 3 respirator • Safety shoes

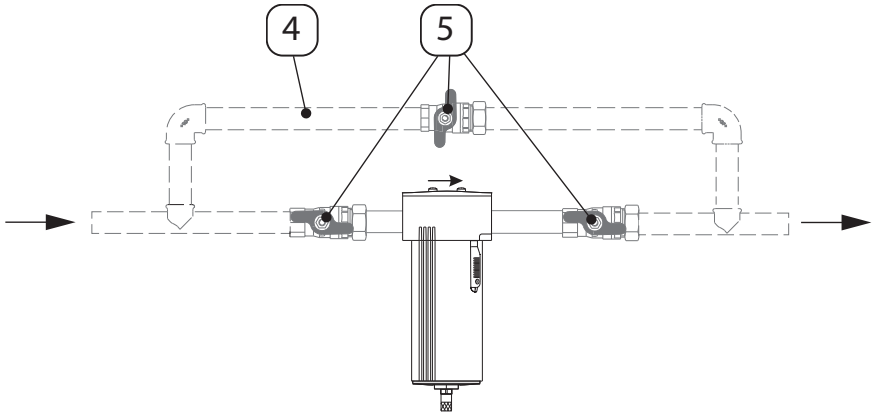
Preparatory work	
1.	Remove the dust cap from the following threads: • Inlet and outlet on the housing head • Condensate drain on the housing base
2.	Depressurize pipeline system or relevant pipe section.
3.	Observe the separator dimensions and ensure required space for installation. See “6. Dimensions” on page 24.
4.	Pipelines must be able to support the additional weight of the separator. Additional attachments should be mounted if necessary.
5.	Pipelines must be free from contamination and corrosion. Check pipe threads for damage. Defective pipes must be replaced promptly.
6.	Pipelines must be free from mechanical tension and vibration. Compensate for vibrations by using vibration dampers.
7.	Only use fittings suitable for this pressure and temperature range. The pipeline threads must match those on the housing head.
8.	Design the condensate drain such that no compressed gas or condensate can escape into the area around the separator. The drained condensate should be fed into a legally conforming preparation system (e.g. ÖWAMAT® or BEKOSPLIT®).

The direction of flow for the separator must be observed during installation. This must match the direction of flow for the pipeline.

Direction of flow left » right (factory default)	Direction of flow Right » left
	

The housing head and housing body use a double trapezoidal thread. The direction of flow through the separator can be adjusted to that of the pipeline by turning the housing head 180°. The direction of flow is indicated via arrows **[2]** and a raised marking **[3]** on the housing head. This must be aligned as shown. The safety runner **[1]** must always be easily accessible on the front side.

For maintenance and repair work, it is recommended to install a bypass line **[4]** and shut-off valve **[5]**.



1. Attach sealing material, e.g. PTFE band (EN 837-2) to the pipe ends
2. Screw pipe thread into the separator inlet until the connection is solid and sealed
3. Screw pipe thread into the separator outlet until the connection is solid and sealed

After completing assembly work, check to ensure the housing body is screwed in correctly, the safety runner is pushed up and the locking screw is hand-tightened. Complete a leak test to check installation work. For more information, see “9.6 Leak test” on page 39.

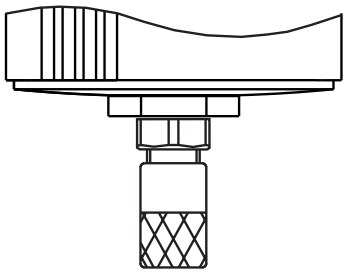
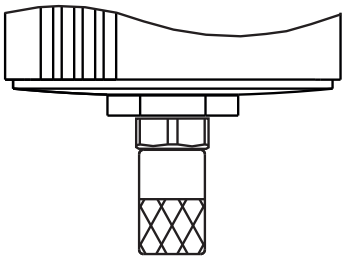
8. Commissioning

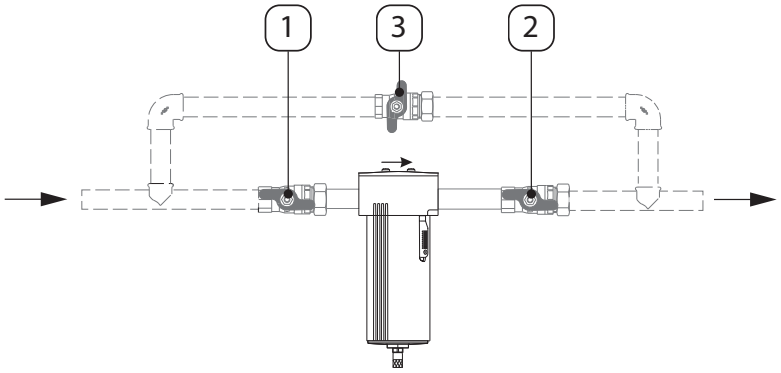
8.1 Commissioning work

The following requirements must be fulfilled to carry out commissioning work and preparatory work must be completed.

Preconditions		
Tool	**Material**	**Protective equipment**
• none	• none	• none

Preparatory work	
1.	Completed installation with leak test

Picture		Description
Automatic drain	**Mechanically open**	
		1. Turn the knurled-head screw on the float drain from **>>mechanically open<<** counter-clockwise (left) to **>>automatic drainage<<**

Picture	Description
	**2. Slowly** open the shut-off valve **[1]** on the inlet side **3. Slowly** open the shut-off valve **[2]** on the outlet side 4. Close the shut-off valve **[3]** on the bypass line

9. Maintenance and servicing

9.1 Maintenance schedule

Maintenance	Interval
Cleaning work	At regular intervals, depending on contamination
Visual inspection	Weekly
Exchange the float drain	Annually
Exchange the WS insert	If damaged
Leak test	Recommendation: At the end of all installation and maintenance and repair work on the product

9.2 Cleaning

9.2.1 Warning

CAUTION	**Improper cleaning and use of incorrect cleaning agents!**
	Improper cleaning and the use of incorrect cleaning agents could result in slight injuries and health or property damage.
	• Never clean the device with a wet cloth. • Do not use abrasive or aggressive cleaning agents or solvents that could damage the external coating (e.g. labels, type plate, corrosion protection, etc.). • Do not clean or operate the device with hard or pointed implements. • Use dusters or damp cotton cloths for exterior cleaning that cannot become statically charged. • Replace illegible product labels (pictograms, designations) promptly.

NOTICE	**Local hygiene regulations!**
	In addition to the cleaning information provided, local hygiene regulations may also apply.

9.2.2 Cleaning work

The following requirements must be fulfilled to carry out cleaning work and preparatory work must be completed.

Preconditions		
Tool	**Material**	**Protective equipment**
• none	• Mild cleaning agent • Cotton or disposable cloth	• Protective gloves (liquid-resistant) • Safety glasses with side protection (goggles) • Hearing protection • Class FFP 3 respirator • Safety shoes

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

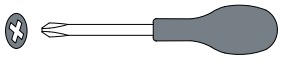
1. Spray the cleaning agent on a new cotton or disposable cloth
2. Rub over the entire component
3. Then dry the device with a clean cloth or let it dry at room temperature.

9.3 Visual inspection

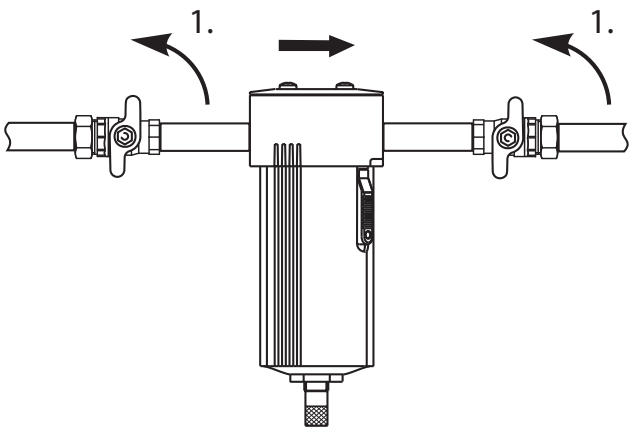
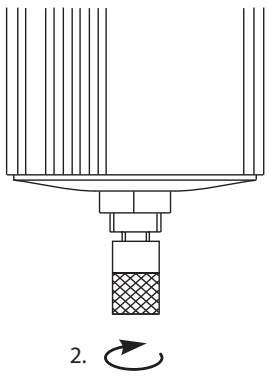
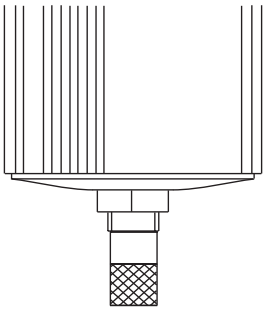
A visual inspection of the separator must be completed to check all components for mechanical damage and corrosion. Damaged components must be exchanged promptly.

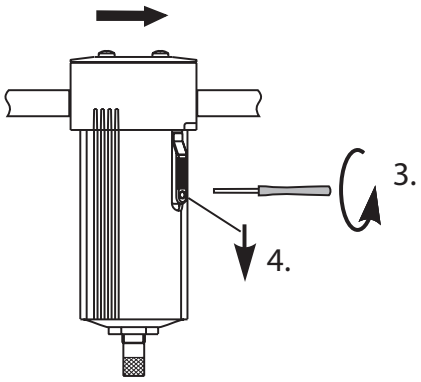
9.4 Exchange the float drain

The following requirements must be fulfilled to exchange the float drain and preparatory work must be completed.

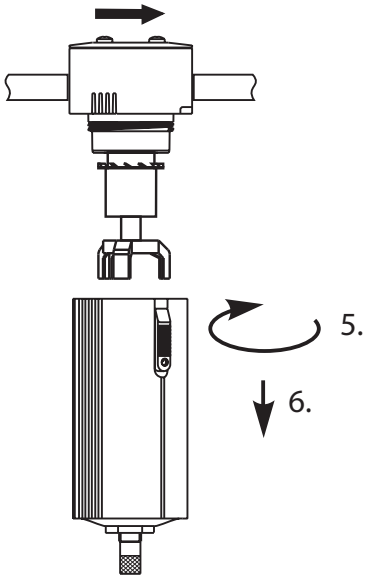
Preconditions		
Tool	**Material**	**Protective equipment**
• Screwdriver - Philip's head size 2.5 mm 	• New float drain with included adapter	• Protective gloves (liquid-resistant) • Safety glasses with side protection (goggles) • Hearing protection • Class FFP 3 respirator • Safety shoes

Preparatory work	
1.	Open any bypass lines

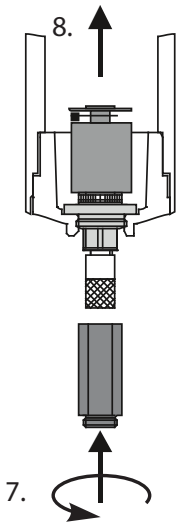
Picture	Description
	1. Close the shut-off valves upstream and downstream of the separator or relevant system section
 Automatic drain  Mechanically open	2. Turn the knurled-head screw on the float drain counter-clockwise (left) from ››**automatic drainage**‹‹ to ››**mechanically open**‹‹



3. Loosen locking screw on the safety runner
4. Push the safety runner down

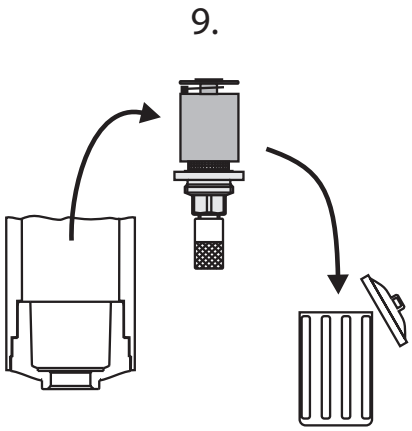


5. Unscrew housing body
6. Remove housing body by pulling downwards



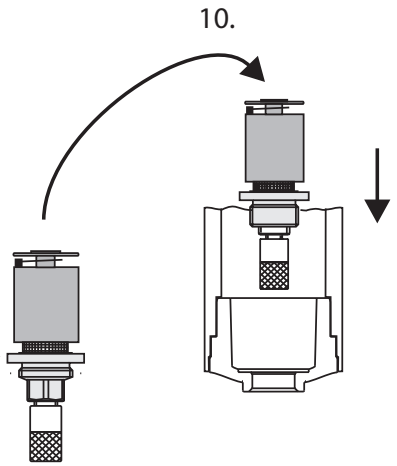
Use the adapter included with the float drain with SW13 to unscrew the float drain.

7. Turn the float drain with adapter counter-clockwise to unscrew
8. Pull the float drain upwards and out of the housing body

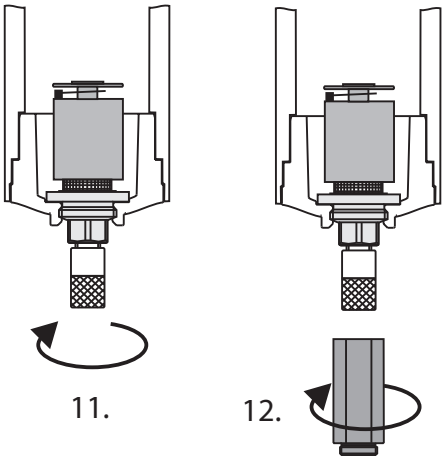


9. Dispose of the float drain appropriately according to regional regulations

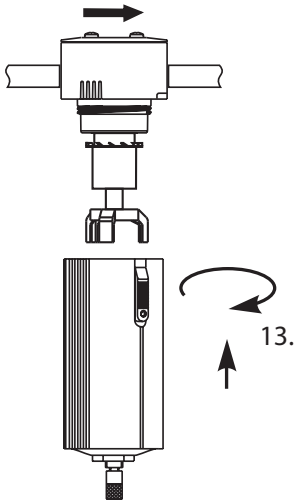
For more information, see “12. Disposal” on page 44.



10. Insert new float drain in the housing body

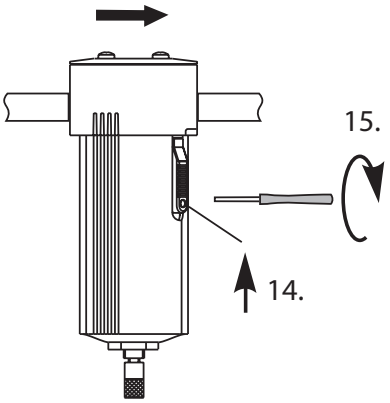


11. Turn the float drain counter-clockwise by hand into the housing body
12. Tighten the float drain using the adapter

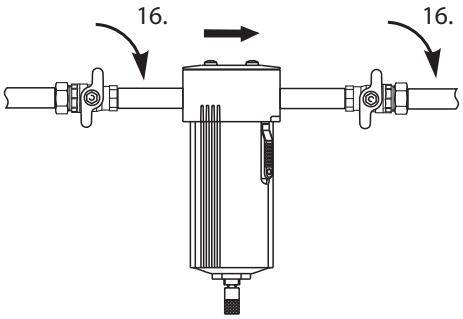


13. Screw housing body back onto housing head

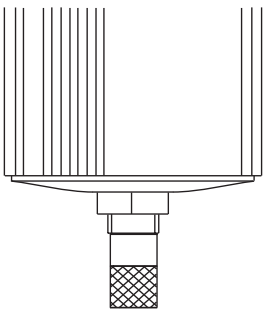
Ensure that the safety slide points forward after installation.



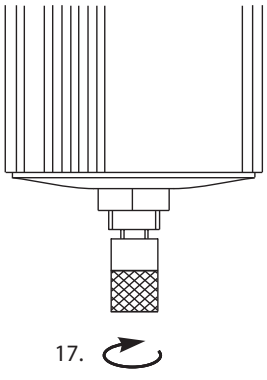
14. Push the safety runner up
15. Tighten the locking screw on the safety runner



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



Mechanically open



Automatic drain

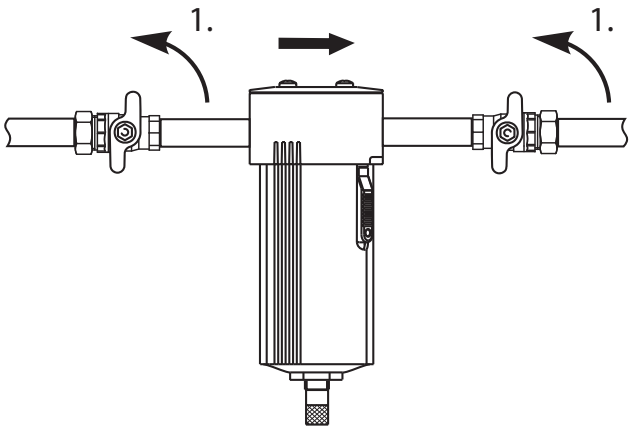
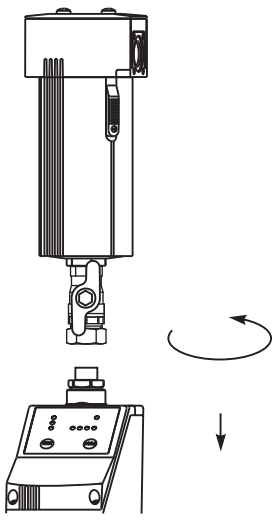
17. Turn the knurled-head screw on the safety runner counter-clockwise (left) from ››**mechanically open**‹‹ to ››**automatic drainage**‹‹; to do so, unscrew the knurled-head screw to the stop

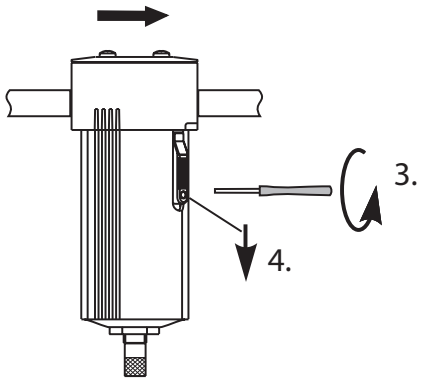
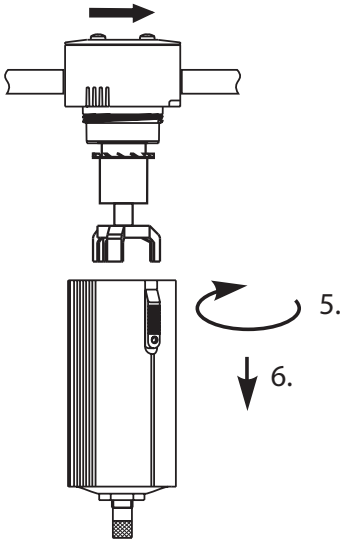
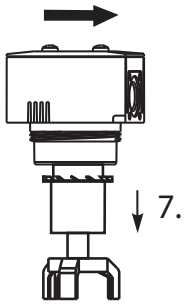
9.5 Exchange the water separator insert

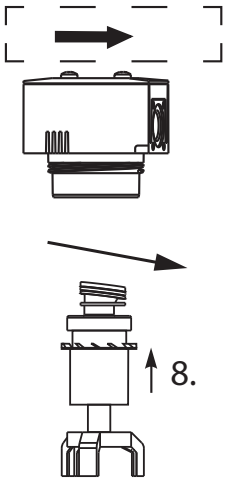
The following requirements must be fulfilled to exchange the water separator insert and preparatory work must be completed.

Preconditions		
Tool	**Material**	**Protective equipment**
• Screwdriver - Philip's head size 2.5 mm 	• new WS insert	• Protective gloves (liquid-resistant) • Safety glasses with side protection (goggles) • Hearing protection • Class FFP 3 respirator • Safety shoes

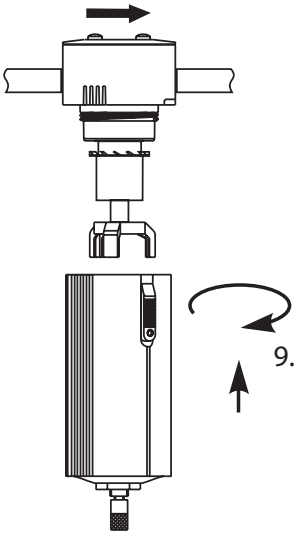
Preparatory work	
1.	Open any bypass lines

Picture	Description
	1. Close the shut-off valves upstream and downstream of the separator or relevant system section and depressurize separator
	2. If using the BEKOMAT®, it must be separated from the bottom section of the housing. For further information, see the attached installation and operating instructions for the BEKOMAT®

	3. Loosen locking screw on the safety runner 4. Push the safety runner down
	5. Unscrew housing body 6. Remove housing body by pulling downwards
	7. Pull the used WS insert down out of the housing head

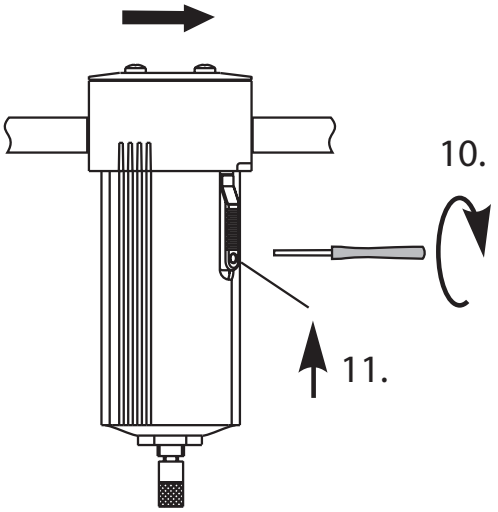


8. Insert the new WS insert into the housing head. Ensure that the slant on the WS insert points down in the direction of the compressed air outlet.

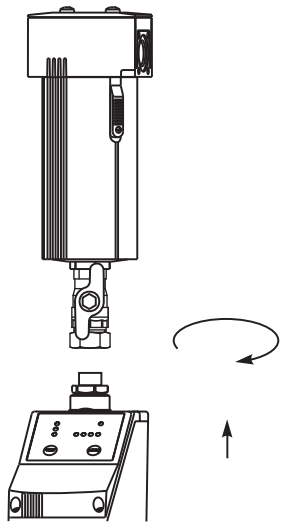
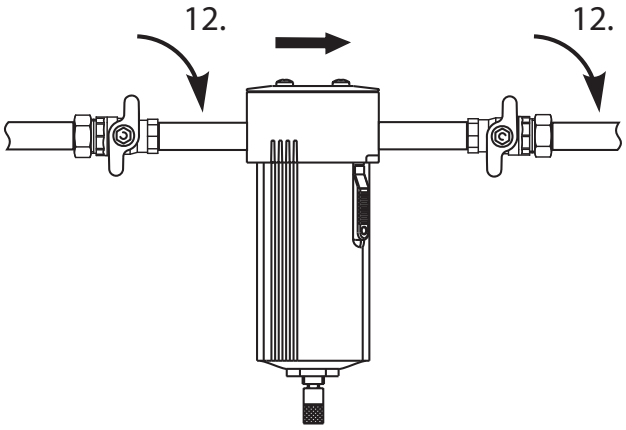


9. Screw housing body onto housing head

Ensure that the safety slide points forward.



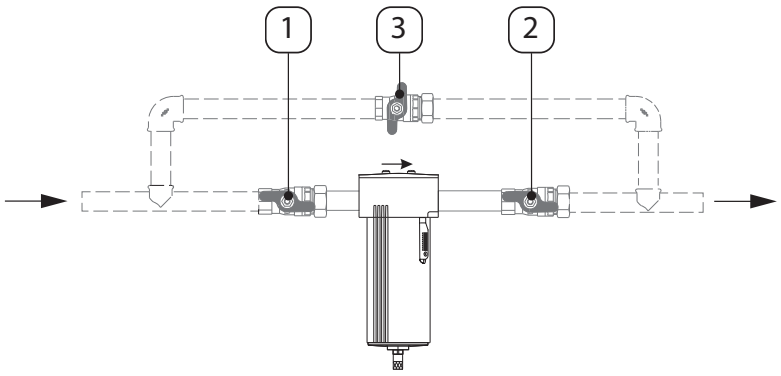
10. Push the safety runner up
11. Tighten the locking screw on the safety runner

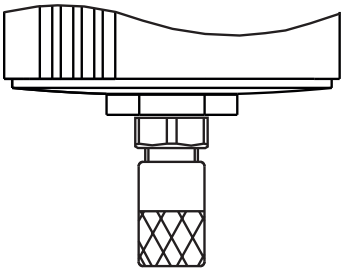
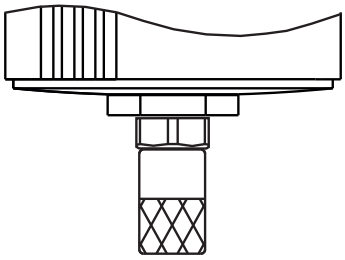
	12. If using the BEKOMAT®, it must be connected once again. For further information, see the attached installation and operating instructions for the BEKOMAT®
	13. Slowly open the shut-off valves upstream and downstream of the separator or relevant system section

9.6 Leak test

The leak test is a non-destructive testing method and is used to prove the leak tightness of vacuum and overpressurized systems. The leak test can be completed in different ways. **BEKO** TECHNOLOGIES GMBH does not provide any recommendations. The operator of the compressed gas system is responsible for selecting the testing process, and testing should be completed in accordance with applicable standards and directives (e.g. DIN EN 1779).

10. Shutting down

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

Picture		Description
Automatic drain	Mechanically open	
		4. Turn the knurled-head screw on the float drain from **>>automatic drainage<<** counterclockwise (left) to **>>mechanically open<<** or press the BEKOMAT® TEST button until the separator is depressurized

11. Disassembly

11.1 Warning

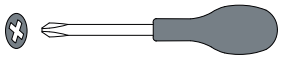
DANGER	**Use of incorrect accessories, materials or replacement parts!**
	The use of incorrect replacement parts, accessories or installation material or operating and auxiliary materials may result in death or severe injuries. This may also cause functional or operating disruptions or material damage.
	• Only use undamaged original parts, auxiliary and operating materials for all disassembly work as indicated by the manufacturer. • Only use fittings and connection elements permitted for the specific application and suitable tools in proper condition.

DANGER	**Compressed air**
	The risk of death or severe injuries exists in case of contact with fast or sudden exiting compressed air or due to bursting system parts.
	• Only work on the system when it is depressurized and secure the system against unintended restart. • Set up a safety zone around the system when carrying out any assembly, installation, maintenance and repair work. • Before pressurizing the system, check and tighten all pipe connections. • Pressurize the system slowly. • Avoid pressure surges and high pressure differentials. • Install all pipelines without mechanical tension. Avoid vibrations occurring in the pipeline network by using vibration dampers. • Carefully observe the installation and operating instructions in this manual. • Carefully observe inspection and maintenance intervals. • Permanently install inlet and outlet lines. • Do not make modifications on the product.

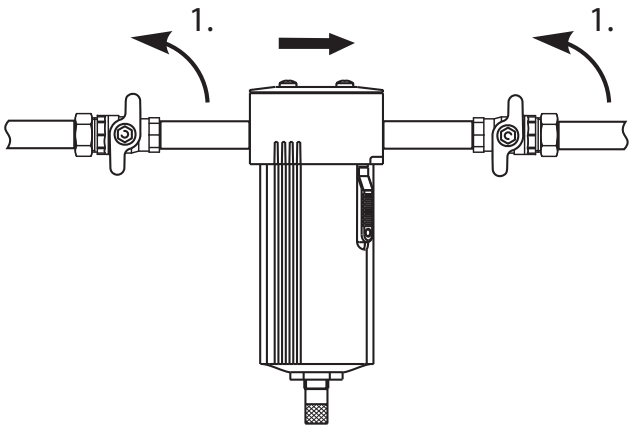
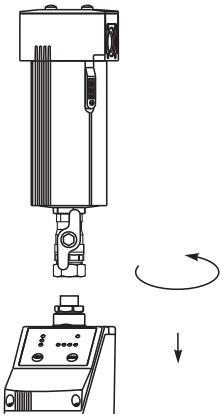
WARNING	**Insufficient qualification!**
	If personnel have insufficient qualifications, this may result in accidents, personal injury and property damage as well as operating disruptions while working on the product.
	The work on the product described in the following may only be carried out by compressed gas technology technicians and must be documented.

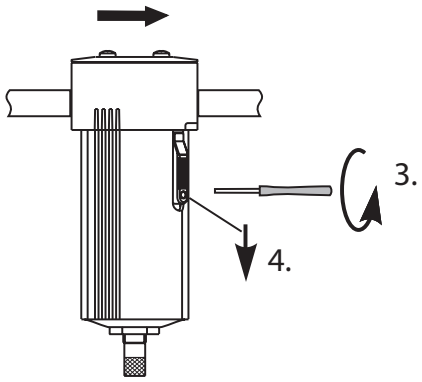
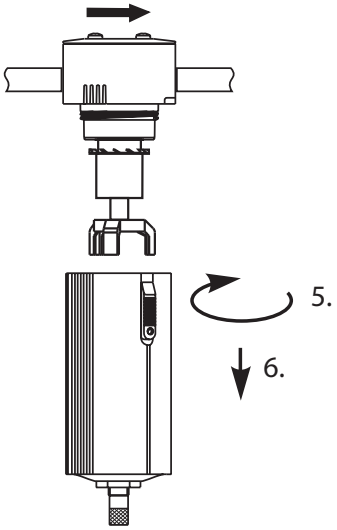
11.2 Disassembly work

The following requirements must be fulfilled to carry out disassembly work and preparatory work must be completed.

Preconditions		
Tool	**Material**	**Protective equipment**
• Screwdriver - Philip's head size 2.5 mm 	• none	• Protective gloves (liquid-resistant) • Safety glasses with side protection (goggles) • Hearing protection • Class FFP 3 respirator • Safety shoes

Preparatory work	
1.	Open any bypass lines

Picture	Description
	1. Close the shut-off valves upstream and downstream of the separator of the system section in question, depressurize the separator and secure the system against unintended pressurization
	2. If using the BEKOMAT®, it must be separated from the bottom section of the housing For further information, see the attached installation and operating instructions for the BEKOMAT®

	3. Loosen locking screw on the safety runner 4. Push the safety runner down
	5. Unscrew housing body 6. Remove housing body by pulling downwards 7. Remove WS insert

8. Remove the housing head from the pipe and close off the ends of the pipe appropriately
9. Dispose of components properly

12. Disposal

12.1 Warning

DANGER	**Use of incorrect accessories, materials or replacement parts!**
	The use of incorrect replacement parts, accessories or installation material or operating and auxiliary materials may result in death or severe injuries. This may also cause functional or operating disruptions or material damage.
	• Only use undamaged original parts, auxiliary and operating materials for all disassembly work as indicated by the manufacturer. • Only use fittings and connection elements permitted for the specific application and suitable tools in proper condition.

NOTICE	**Improper disposal!**
	Improper disposal of components and assemblies, operating and auxiliary materials and cleaning agents may cause environmental hazards.
	• All components and assemblies, operating and auxiliary materials and cleaning agents must be disposed of appropriately and according to regional statutory specifications and provisions. • In case of doubt, consult regional disposal companies before disposal.

12.2 Disposal work

At the end of its service life, the product must be disposed of professionally, e.g. by a professional company. Materials such as glass, plastic, and some chemical compounds can be recycled or reused.

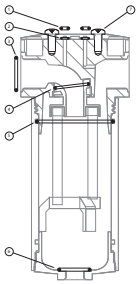
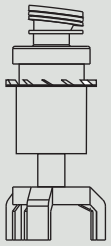
All national and local regulations must be complied with during disposal.

Used WS insert:
Do not dispose of as household waste! Dispose of safely and according to the statutory waste disposal regulations.

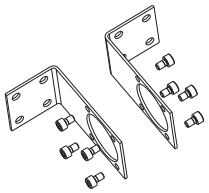
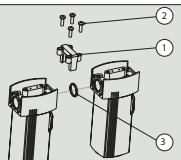
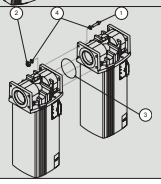
Used float drain:
Do not dispose of as household waste! Dispose of safely and according to the statutory waste disposal regulations.

13. Spare parts and accessories

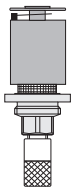
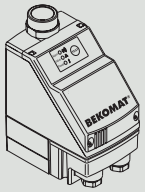
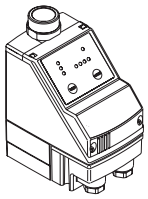
13.1 Replacement parts

Designation	Image	Separate documentation
O-Ring set for S040, S050 → 4026562 O-Ring set for S075, M010 → 4026563 O-Ring set for M015, M020, M022 → 4026564 O-Ring set for M025, M030 → 4026565		Included packing slip
WS insert 04 W → 4004320 WS insert 05 W → 4004321 WS insert 07 W → 4004322 WS insert 10 W → 4004323 WS insert 15 W → 4004324 WS insert 20 W → 4007102 WS insert 22 W → 4004325 WS insert 25 W → 4004326 WS insert 30 W → 4004327		Included packing slip

13.2 Accessories top attachments

Designation	Image	Separate documentation
Wall mount for S040, S050 → 4003328 Wall mount for S075, M010 → 4003329 Wall mount for M015, M020, M022 → 4003330 Wall mount for M025, M030 → 4003331		Not available
Connection set for S040, S050 → 403332 Connection set for S075, M010 → 403333 Connection set for M015, M020, M022 → 403334 Connection set for M025, M030 → 403335	 	Included packing slip

13.3 Accessories bottom attachments

Designation	Image	Separate documentation
Float drain (open when depressurized) ➞ 4025536 Float drain (closed when depressurized) ➞ 4025537		Included packing slip
BEKOMAT® 20 ➞ 4001841		enclosed manual
BEKOMAT® 20 FM ➞ 4003051		enclosed manual

14. Troubleshooting and repair / FAQ

Symptom(s)	Possible causes	Remedy
Poor compressed gas quality	Load too high, intermittent load	• Change operating method • Avoid pressure surges • Comply with the specified operating parameters, in particular during start-up
	Non-functional condensate drain	• Ensure regular condensate drainage
	Incorrectly dimensioned unit	• Dimension separator with indicated operating parameters and exchange if necessary
	WS insert installed incorrectly	• Observe the direction of flow / installation direction for the WS insert
	O-ring was damaged during installation	• Purchase O-ring set, proceed carefully during installation
High pressure differential	Incorrectly dimensioned unit	• Dimension separator with indicated operating parameters and exchange for a larger one if necessary
	destroyed WS insert	• Exchange WS insert
Condensate in downstream components	Condensate drain defective or functional fault	• Exchange float drain or complete maintenance on BEKOMAT®
Leaks	Aging of seals	• Replace seals during maintenance work
	Mechanical damage	• Send in separator for repairs or replace with a new one

15. Product specifications and certifications

Symbol/pictogram	Description/explanation
CE	CE mark on separator Applies to sizes M020, M022, M025, M027, M030 and 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 Wasserabscheider CLEARPOINT®
Baugrößen:	S040W, S050W, S075W, M010W, M015W
Max. Betriebsdruck:	16 bar (g)
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, und einer Dichtheitsprüfung mit dem Medium Druckluft, bei 7,0 bar unterzogen. Bei den durchgeführten Prüfungen zeigten sich keine Mängel.

Unterzeichnet für und im Namen von:

Neuss, 25.03.2019

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Leiter Qualitätsmanagement International

manu_decl_CP_S040W-M015W_FL2_Kat.0_de_03_2019

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Manufacturer declaration

We hereby declare that the following products have been designed and manufactured in the versions delivered by us according to Pressure Directive 2014/68/EU, article 4 paragraph 3 and in accordance with good general engineering practice.

Product designation:	Container for CLEARPOINT® water separator...
Sizes:	S040W, S050W, S075W, M010W, M015W
Max. Operating Pressure:	16 bar (g)
Description of pressure equipment:	Pressure equipment for group 2 fluids

Pressure equipment according to article 4 paragraph 3 of Pressure Directive 2014/68/EU may not bear the CE mark indicated in article 19.

Containers are subject to a hydraulic pressure test at 23 bar and a leak test using compressed air as the medium at 7.0 bar. No defects were found during the completed tests.

Signed for and on behalf of:

Neuss, 3/25/2019

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Manager 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 CLEARPOINT® ... für Wasserabscheider
Modelle:	M020W, M022W
Max. Betriebsdruck:	16 bar (g)
Produktbeschreibung und Funktion:	Behälter für CLEARPOINT Wasserabscheider

Druckgeräte-Richtlinie 2014/68/EU

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, 22.07.2016

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Leiter Qualitätsmanagement International

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EU Conformity declaration

We herewith declare that the products identified in the following are in accordance with the requirements of the relevant directives and technical standards. This declaration only refers to products that are in a condition in which they were delivered by us. Parts that were not attached by the manufacturer and/or subsequently performed interventions are not included.

Product designation:	CLEARPOINT® … container for water separator
Models:	M020W, M022W
Max. Operating Pressure:	16 bar (g)
Product Description and Function:	Container for CLEARPOINT® water separator

Pressure Equipment Directive 2014/68/EU

Conformity assessment process applied:	Module A
Category:	I
Description of pressure equipment:	Pressure equipment for group 2 fluids

The manufacturer has the sole responsibility for issuing this conformity declaration.

Signed for and on behalf of:

Neuss, 22.07.2016

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Manager 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 CLEARPOINT® ... für Wasserabscheider
Modelle:	M025W, M030W
Max. Betriebsdruck:	16 bar (g)
Produktbeschreibung und Funktion:	Behälter für CLEARPOINT Wasserabscheider

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, 01.09.2017

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Leiter Qualitätsmanagement International

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EU Conformity declaration

We herewith declare that the products identified in the following are in accordance with the requirements of the relevant directives and technical standards. This declaration only refers to products that are in a condition in which they were delivered by us. Parts that were not attached by the manufacturer and/or subsequently performed interventions are not included.

Product designation:	CLEARPOINT® … container for water separator
Models:	M025W, M030W
Max. Operating Pressure:	16 bar (g)
Product Description and Function:	Container for CLEARPOINT® water separator

Pressure Equipment Directive 2014/68/EU

Conformity assessment process applied:	Module A2
Category:	II
Description of pressure equipment:	Pressure equipment for group 2 fluids
Notified agency:	TÜV NORD Systems GmbH & Co. KG Große Bahnstraße 31 22525 Hamburg
Certificate no.:	07/202/1410/Z/0237/17/D/0035

Products are labeled with the symbols pictured:

CE 0045

The manufacturer has the sole responsibility for issuing this conformity declaration.

Signed for and on behalf of:

Neuss, 9/1/2017

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Manager Quality Management

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