

Installation Instructions

Liquiline System analyzer

CA80COD/TP

Wear parts



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1 Overview

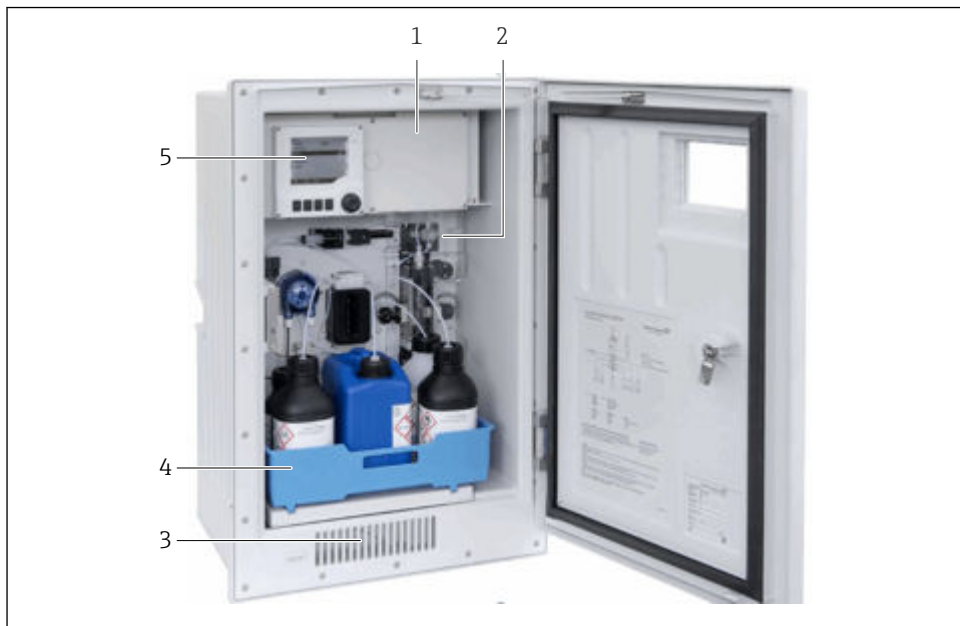
1.1 Spare parts kits

These installation instructions apply to the following spare parts kits:

Order code	Description	Page
71324153	CA80COD/TP PharMed hose 4.8 mm	→  12
71431075	CA80COD/TP waste/dilution hose 6.4 mm	→  12
71324156	CA80COD/TP PTFE hose (5 m)	→  12
71324157	CA80COD/TP hose connector (20 pcs)	→  13
71324163	CA80COD/TP pump hose (10 pcs)	→  13
71324165	CA80COD/TP 5x O-ring set reactor	→  14
71324168	CA80COD/TP 5x O-ring set dosing unit	→  14
71324520	CA80COD/TP peristaltic pump, complete	→  15
71601539	CA80COD/TP pinch valve V2	→  16
71324523	CA80COD/TP 10x cap dilution vessel	→  16

1.2 Overview of CA80 sum parameters (CA80COD/TP)

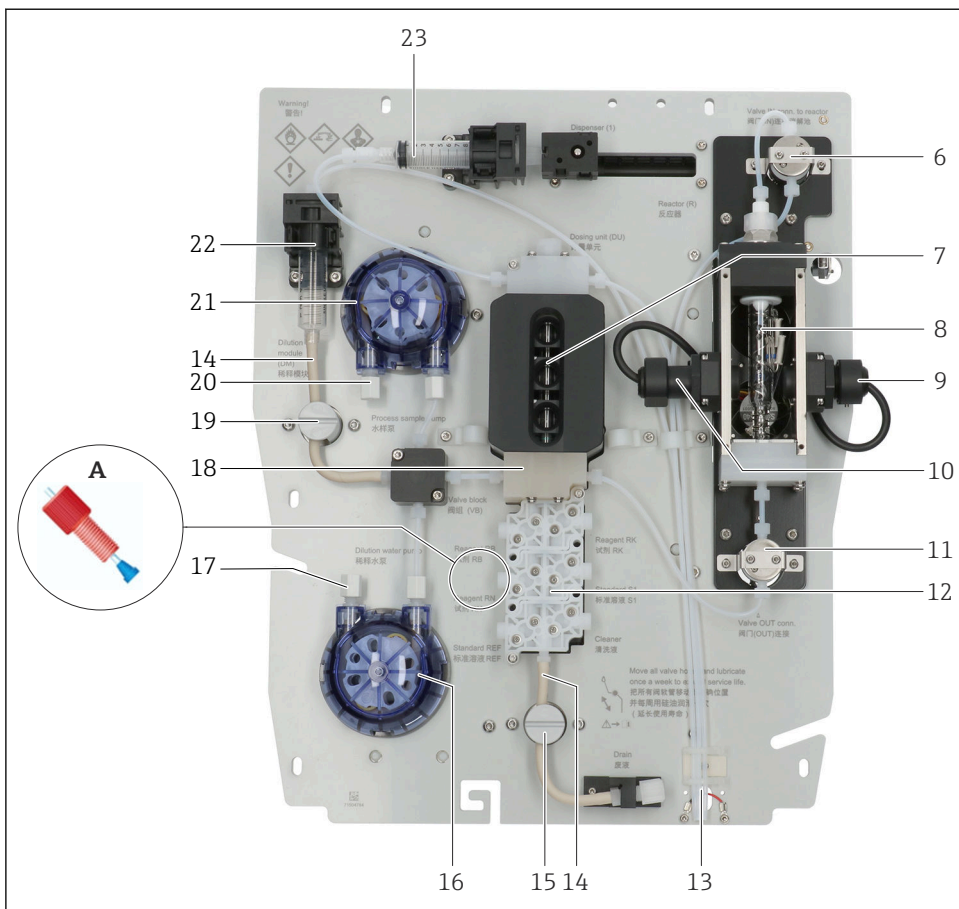
The figures below show an overview of the CA80 for the colorimetric sum parameter measurement.



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1 Assembly overview of CA80COD sum parameters

- 1 Electronics compartment
- 2 Carrier plate
- 3 Cooling (option for CA80TP)
- 4 Bottle tray for reagents and standard
- 5 Measuring and control unit (controller)



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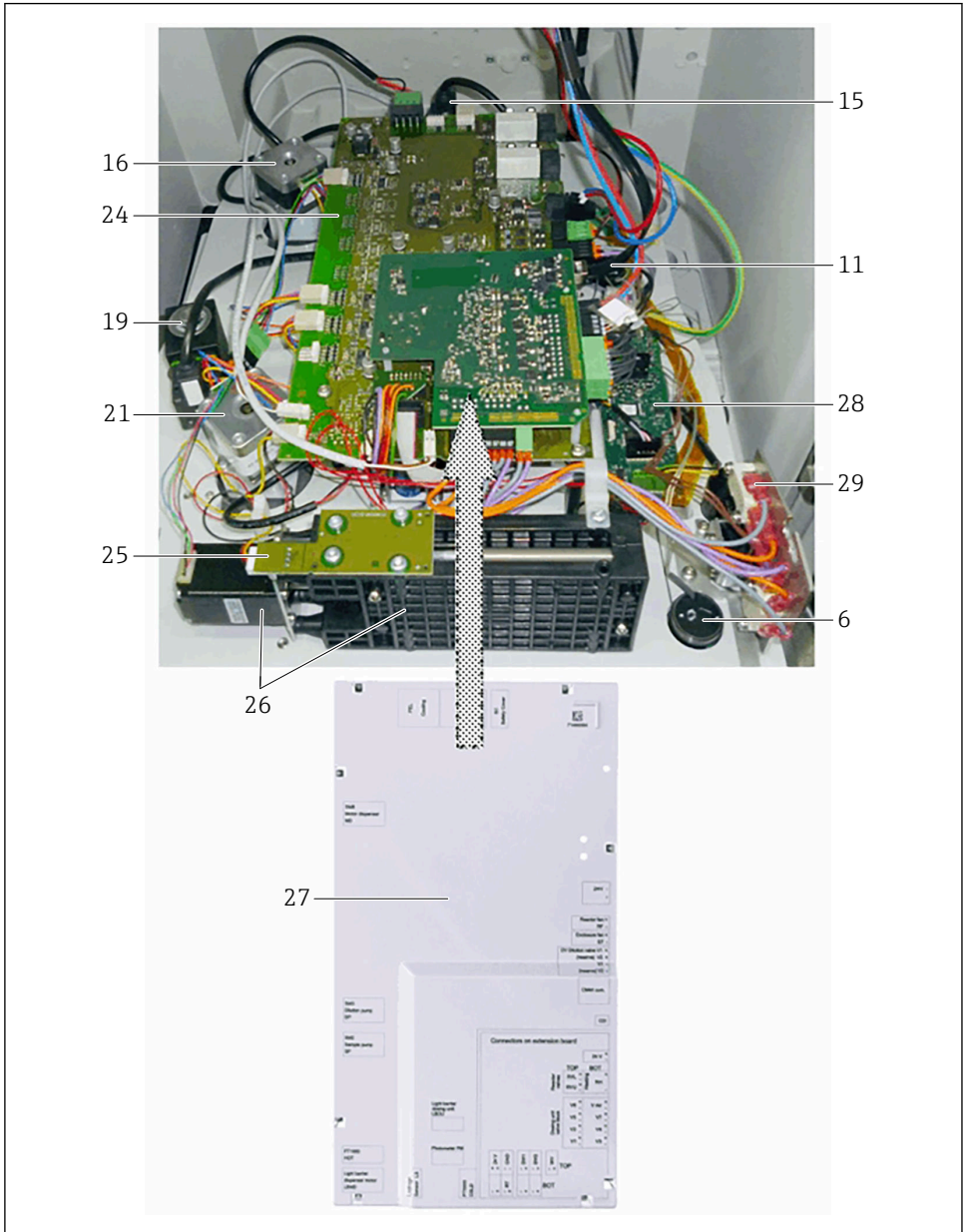
2 Carrier plate CA80 sum parameters (remove safety cover!)

A Handling the glands with the cone: Observe the installation direction of the cone!

- 6 Reactor valve at top
- 7 Dosing unit with dosing tubes
- 8 Reactor with reactor cuvette
- 9 Photometer (receiver module)
- 10 Photometer (transmitter module)
- 11 Reactor valve at bottom
- 12 Valve block
- 13 Leak sensor
- 14 Pharmed® hose for pinch valve
- 15 Waste valve
- 16 Dilution pump (only with high measuring range)
- 17 Dilution water intake
- 18 Valve block with dosing unit
- 19 Dilution water valve

- 20 *Sample intake*
- 21 *Sample pump*
- 22 *Dilution module (only with high measuring range)*
- 23 *Dosing dispenser*

1.3 Rear of CA80COD/TP



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3 Rear of CA80COD/TP, carrier plate folded out

- 6 Ventilation upper reactor valve (RVU)
- 11 Lower reactor valve (RVL)
- 15 Waste valve
- 16 Dilution pump (only with high measuring range)
- 19 Dilution water valve
- 21 Sample pump
- 24 Control module
- 25 Linear unit: Light barrier
- 26 Linear unit: Drive for dosing dispenser
- 27 Cover plate for the control module
- 28 Photometer electronics
- 29 Reactor cover safety lock

1.4 Valve types and history

1.4.1 Valve types

Waste valve CA80COD:

Since February 2019 = SN **P2**....., the CA80**COD** analyzers have featured a new waste valve (type **2**) and a thick-walled hose.

Waste valve CA80TP:

Since January 2022 = SN **T1**....., the CA80**TP** analyzers have also featured a new waste valve (type **2**) and a thick-walled hose.

Dilution valves CA80COD and TP:

Type 2 with a thick-walled hose was also introduced for the dilution valve on the CA80COD and TP analyzers from mid-2024.


Valve	Comment	
<p>Type 1 (for thin and thin-walled hose = kit 71324153)</p>	<ul style="list-style-type: none"> ■ Waste valve for COD until January 2019 = SN P1..... ■ Waste valve for TP until December 2021 = SN SC..... ■ Dilution valves COD + TP gradual phase-out from mid-2024 	 <p style="text-align: right;">A0058739</p>
<p>Type 1a (for thin and thin-walled hose = kit 71324153)</p>	<p>Waste valve for COD, only used temporarily, must be replaced with a type 2 valve.</p>	 <p style="text-align: right;">A0058740</p>
<p>Type 2 (for thick and thick-walled hose = kit 71431075)</p>	<ul style="list-style-type: none"> ■ Waste valve for COD since February 2019 = SN P2..... ■ Waste valve for TP since January 2022 = SN T1..... ■ Dilution valves COD + TP introduced from mid-2024 	 <p style="text-align: right;">A0058741</p>

2 Intended use

- The parts in the kits must only be used as spare parts for CA80 sum parameters, CA80SI and CA82HA analyzers. Any other use is not permitted!
- Use only original parts from Endress+Hauser.
- In the Device Viewer, check if the spare part is suitable for the device in question.

3 Personnel authorized to carry out conversion

- Installation, commissioning, operation and maintenance of the measuring system may be carried out only by specially trained technical personnel.
- The technical personnel must be authorized by the plant operator to perform the stated tasks.
- The electrical connection may only be established by an electrical technician.
- The technical personnel must have read and understood these Installation Instructions and must follow the instructions they contain.
- Measuring point faults may be repaired only by authorized and specially trained personnel.
- In the case of Ex-certified devices, the technical staff must also be trained in explosion protection.

 Repairs not described in the Operating Instructions provided must only be carried out directly at the manufacturer's site or by the service organization.

4 Safety instructions

WARNING

Risk of death due to electric shock!

- ▶ Perform work on the device with the utmost caution, especially when the device remains fully or partially powered on during maintenance tasks.
- ▶ Follow the instructions in the relevant chapters of this manual, as the procedure for electrical safety depends on the service kits used.
- ▶ All work must be carried out according to applicable safety standards.
- ▶ Note the instructions in the Operating Instructions for the analyzer.

CAUTION

Risk to health due to contact with reagents, chemicals or process solutions!

- ▶ Wear protective gloves, protective goggles and protective clothing.
- ▶ Immediately rinse splashes with plenty of water and a 1% sodium bicarbonate solution (NaHCO_3 , baking soda).
- ▶ In case of eye contact, rinse the affected area with plenty of water and then seek medical advice. Show the relevant safety data sheet to the physician.
- ▶ Note the nationally applicable workplace safety regulations for the work area when handling toxic or corrosive chemicals.

⚠ CAUTION**Electronic assemblies are sensitive to electrostatic discharges (ESD)!**

- ▶ Before removing an assembly from the antistatic packaging, it must be discharged, e.g. at a protective ground. Continuous grounding, e.g. with an ESD wristband, is recommended.

**Potential impact on the process**

Before decommissioning an active device, the potential impact on the overall process must be taken into account! This applies in particular when using the switching contacts, the analog signal outputs or the communication interface of the associated measuring instrument to control process variables. Coordinate service tasks with the operator!



Contact Endress+Hauser Service if you have questions: www.addresses.endress.com

5 Scope of delivery

5.1 71324153 kit CA80COD/TP PharMed hose 4.8 mm

The kit contains the following parts → 📄 8:

2 m PharMed® hose, thin-walled, ID 3.2 W 0.8 OD 4.8 mm 1 pc. Kit instructions

5.2 71431075 kit CA80COD waste/dilution hose 6.4 mm

The kit contains the following parts → 📄 8:

2 m PharMed® hose, thick-walled, ID 3.2 W 1.6 OD 6.4 mm 1 pc. Kit instructions

5.3 71324156 kit CA80COD/TP PTFE hose (5 m)

The kit contains the following parts → 📄 4, 📄 12:

5 m PTFE hose ID 1.6 OD 3.2 mm natural color 1 pc. Kit instructions



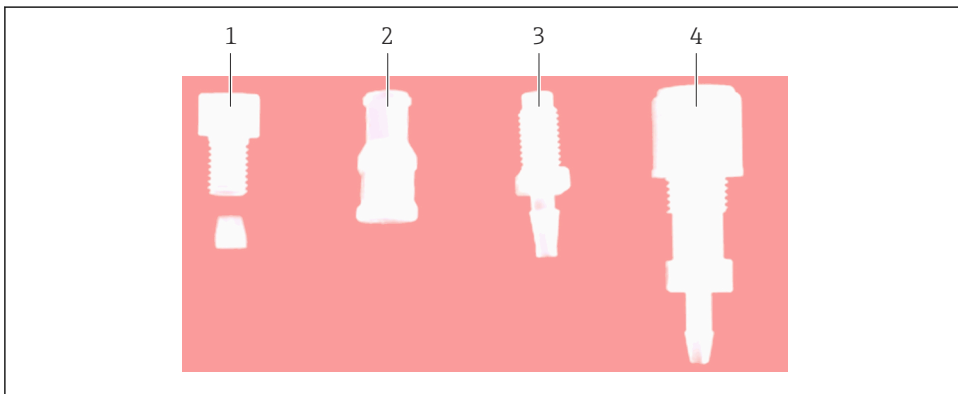
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📄 4 CA80COD/TP PTFE hose (5 m)


5.4 71324157 kit CA80COD/TP hose connector (20 pcs)



The kit contains the following parts →  5,  13:

20 pcs	Coupling 1/8"-28 UNF ETFE	2	Coupling with nozzle 1/4"-28 D 3.2 ETFE
		pcs	
20 pcs	Cone for coupling 1/8"-28 UNF	1 pc.	Coupling 4 mm rigid/flexible PVDF
1 pc.	Luer adapter 1/4"-28 inner ETFE	1 pc.	Kit instructions



A0060136

 5 CA80COD/TP hose connector (20 pcs)

1-4 For use, see →  14,  22

5.5 71324163 kit CA80COD/TP pump hose (10 pcs)

The kit contains the following parts →  6,  13:



10 pcs	Pump hose with connectors	1 pc.	Kit instructions
--------	---------------------------	-------	------------------



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 6 CA80COD/TP pump hose (10 pcs)

5.6 71324165 kit CA80COD/TP 5x O-ring set reactor

The kit contains the following parts →  7,  14:



- 5 pcs O-ring ID 4.42 W 2.62 mm FFKM 1 pc. Kit instructions
- 5 pcs O-ring ID 16.01 W 2.62 mm FFKM



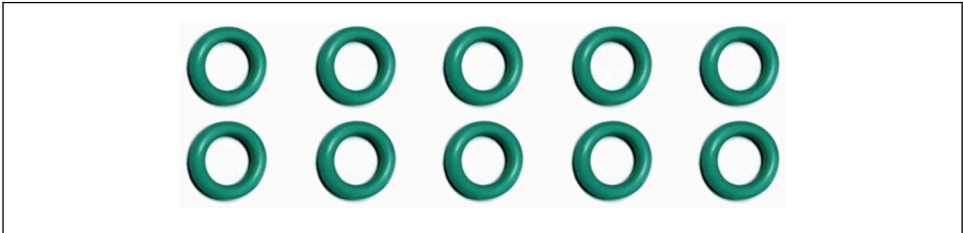
A0060137

 7 CA80COD/TP 5x O-ring set reactor


5.7 71324168 kit CA80COD/TP 5x O-ring set dosing unit

The kit contains the following parts →  8,  14:

- 10 pcs O-ring ID 6.07 W 1.78 mm FKM 1 pc. Kit instructions



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 8 CA80COD/TP 5x O-ring set dosing unit


5.8 71324520 kit CA80COD/TP peristaltic pump, complete

The kit contains the following parts →  9,  15:



- | | | | |
|-------|---------------------------------------------------------------|-------|------------------|
| 1 pc. | Peristaltic pump, complete, with preassembled cable and label | 1 pc. | Kit instructions |
|-------|---------------------------------------------------------------|-------|------------------|



A0060139

-  9 CA80COD/TP peristaltic pump, complete

5.9 71601539 kit CA80COD/TP pinch valve V2


The kit contains the following parts →  10,  16:

- 1 pc. Pinch valve type 2
- 2 pcs Torx screw M4x16



1 pc. Kit instructions



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 10 CA80COD/TP pinch valve V2

5.10 71324523 kit CA80COD/TP 10x cap dilution vessel

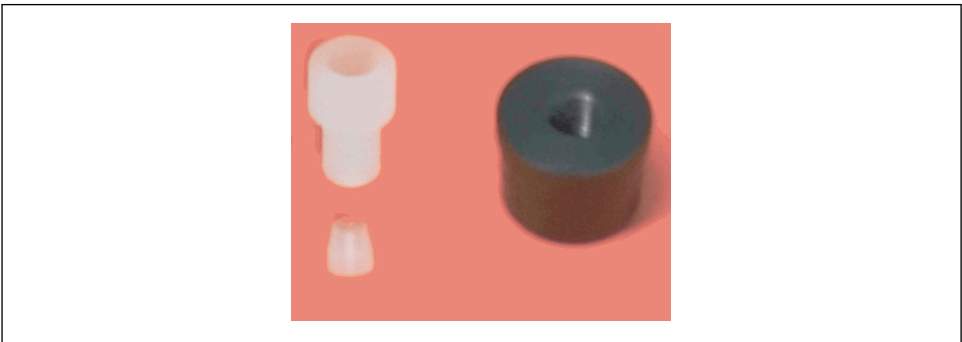
The kit contains the following parts →  11,  16:

- 10 pcs Cap for dilution vessel, internal thread ¼"-28 UNF


10 pcs Coupling with short thread ⅛"-28 UNF ETFE

- 10 pcs Cone for coupling ⅛"-28 UNF ETFE

1 pc. Kit instructions



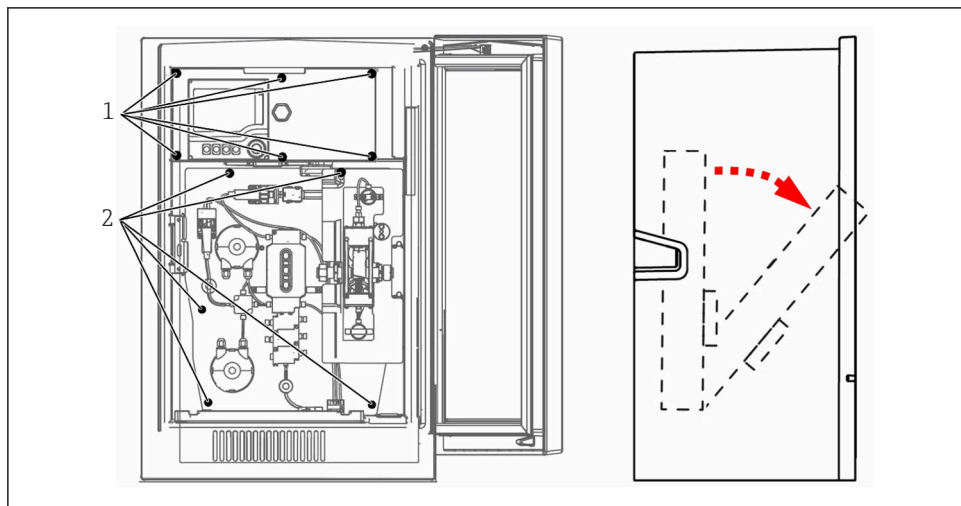
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 11 CA80COD/TP 10x cap dilution vessel


6 Replacing the components

6.1 Access for service work

The graphic below shows opening the connection compartment cover and folding the carrier plate forward.



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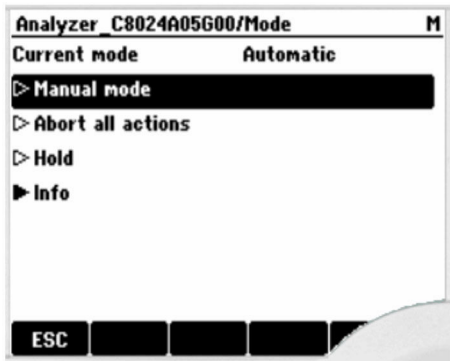
 12 Access for service work on the rear of the carrier plates

- 1 Screws for connection compartment cover
- 2 Screws for securing the carrier plates

6.2 Preparation

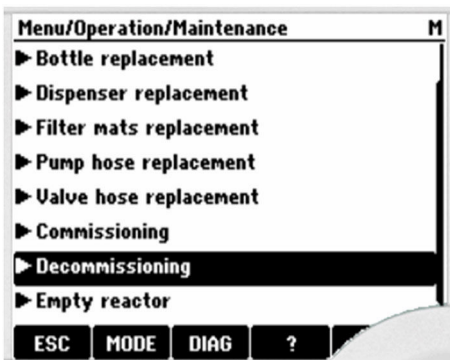
WARNING

- ▶ In order to prevent reagents from leaking, the system must be cleaned before replacing spare parts on the carrier plate.
1. Select **Mode** → **Manual mode** and wait until the analyzer has completed all actions (display shows **Current action: none**).



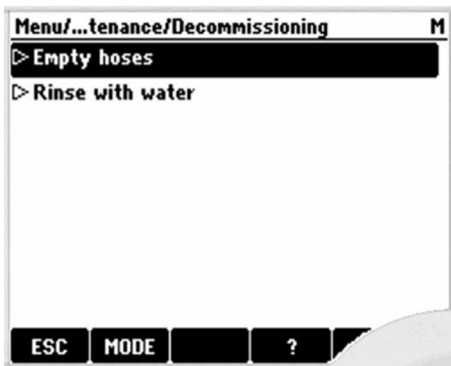
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2. Select **Menu → Operation → Maintenance → Decommissioning**. Confirm the respective menu item by pressing the navigator button.



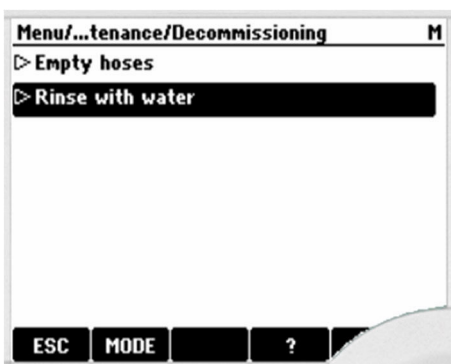
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3. Remove the hoses from the reagent bottles and wipe them with a paper towel.
4. Remove the sample hose from the sample.
5. If present: Remove the dilution water hose from the water. Place all hoses in an empty beaker.
6. Select the **Empty hoses** entry.



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7. Place all hoses in a beaker containing distilled or demineralized water.
8. Select the **Rinse with water** entry.






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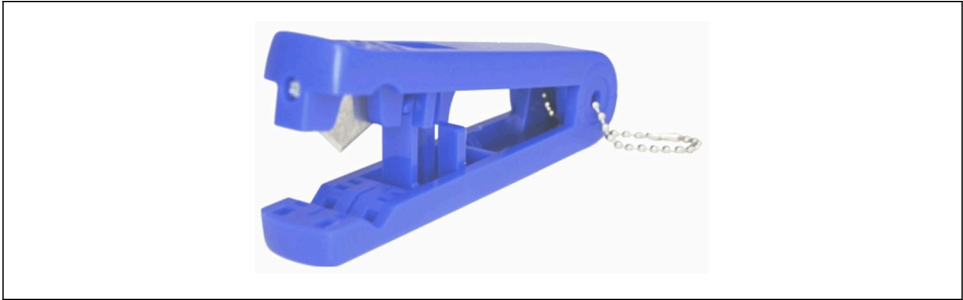
9. Wait until the action has been successfully completed.
10. Place all hoses back in an empty beaker.
11. Repeat the step **Menu → Operation → Maintenance → Decommissioning → Empty hoses**.
 - ↳ At the end of this step, the system is clean and dry. The necessary repairs and maintenance can be performed.
12. Remove the bottle tray together with the bottles.
13. **Disconnect the analyzer from the power supply and secure the circuit breaker against unintentional restarting.**

6.3 Replacing the PharMed® hoses (hoses for pinch valves)

i Affected components: See →  12 and →  2,  5, items 14 + 15 and 14 + 19.


1. Carry out preparatory work as per section 6.2 →  17.
2. Release the two ends of the affected PharMed® hose and remove the hose from the valve.

i The new hose can be cut cleanly and smoothly using a professional hose cutter
→  13,  20.



A0060234

 13 Hose cutter


i Ensure that the hose diameter is correct →  8.

3. Grease the new PharMed® hose with silicone grease and guide it through the valve.
4. Ensure that the hose remains in position when the valve is switched.

⚠ CAUTION


Risk of blockage, breakage, cracks or leaks!




► Ensure that the hose lies without tension in the valve in order to prevent one-sided loads.

1. Open/close the valves and perform a valve test (operating voltage must be applied). To do so, open **Menu** → **Diagnostics** → **System test** → **Analyzer** → **Valves** and select entry **Drain D** and, if available, **Dilution module DM**.
2. Put the analyzer back into operation →  31.

6.4 Replacing the PTFE hoses

1. Carry out preparatory work as per section 6.2 →  17.

 Only replace hoses with hoses of the same diameter, the same length and the same color.

 Generally use a professional hose cutter for PTFE hoses →  13,  20.
Side cutters and similar tools are not suitable for PTFE hoses.

2. If possible, also replace all affected hose connectors.

3. Use the hose labels from the old hoses for the new hoses.

4. Take care not to pinch, clamp or twist the hoses.

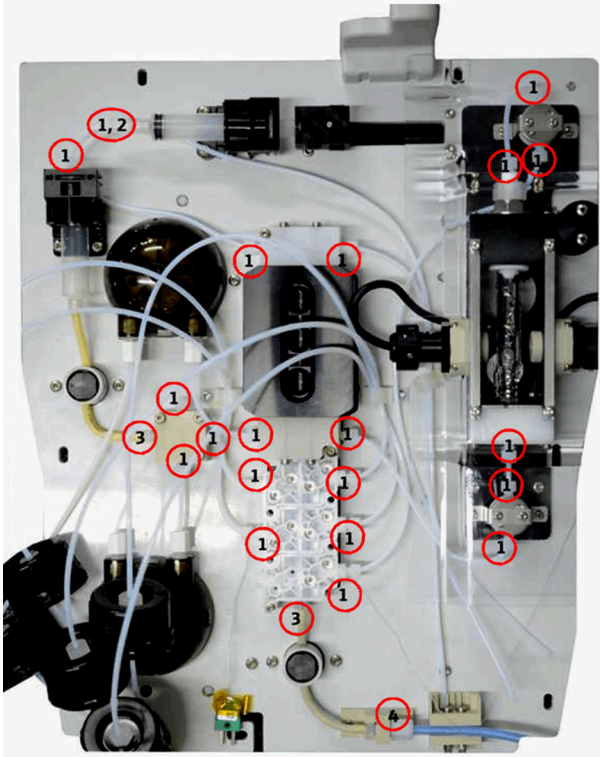
5. Ensure that the outlet is clear.

6. Put the analyzer back into operation →  31.

6.5 Replacing the hose connectors

1. Carry out preparatory work as per section 6.2 →  17.

2. Locate the hose connectors using the graphic below and using section 5.4 →  13 and
→  5,  13.




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
14 Identification of the hose connectors




- 1 Coupling with short thread $\frac{1}{8}$ "-28 UNF ETFE + cone for coupling $\frac{1}{8}$ "-28 UNF ETFE
- 2 Luer adapter $\frac{1}{4}$ "-28 inner/inner ETFE
- 3 Coupling with nozzle $\frac{1}{4}$ "-28 D3.20 ETFE
- 4 Coupling 4 mm rigid/flexible PVDF wh

 The threads of the ETFE plastic couplings are delicate. Do not tilt pressure screws and only tighten them until hand-tight.





3. Put the analyzer back into operation →  31.






6.6 Replacing a pump hose (peristaltic pumps)

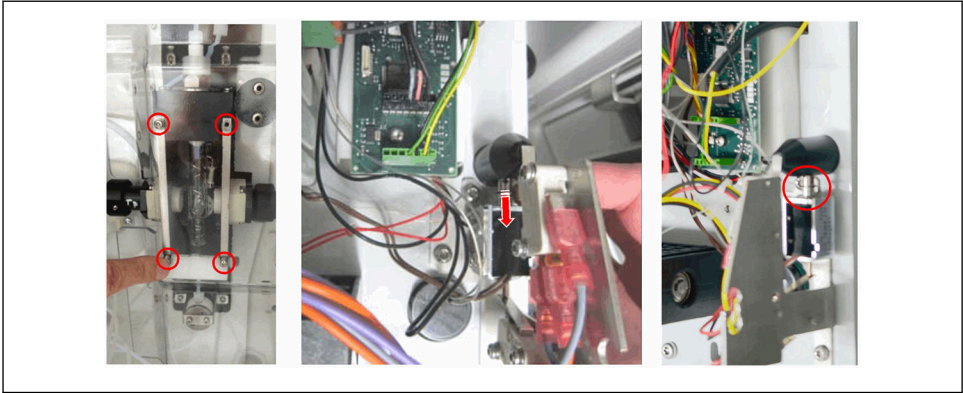
 Affected components: See →  13 and →  2,  5, items 16 and 21.

1. Carry out preparatory work as per section 6.2 →  17.
-  Devices with a low measuring range have one peristaltic pump.
Devices with a high measuring range have a dilution water pump and therefore have two peristaltic pumps.
2. Open and remove the hose glands on the pump head.
3. Detach the pump head from the pump. To do so, turn the bayonet lock of the pump head a quarter turn anticlockwise.
4. Remove the roller head and pump hose from the pump head.
5. Grease the new pump hose with silicone grease.
6. Insert the new pump hose into the pump head together with the roller head.
7. Check the function of the roller head.
8. Place the pump head on the pump and secure it by turning the bayonet lock a quarter turn clockwise. A clear click must be audible.
9. Screw the PTFE hoses with the hose connectors onto the pump inlet and outlet. Ensure that the hoses are not mixed up.
10. Put the analyzer back into operation →  31.

6.7 Replacing the reactor O-rings

 **Affected components:** See →  14 and →  2,  5, item 8.

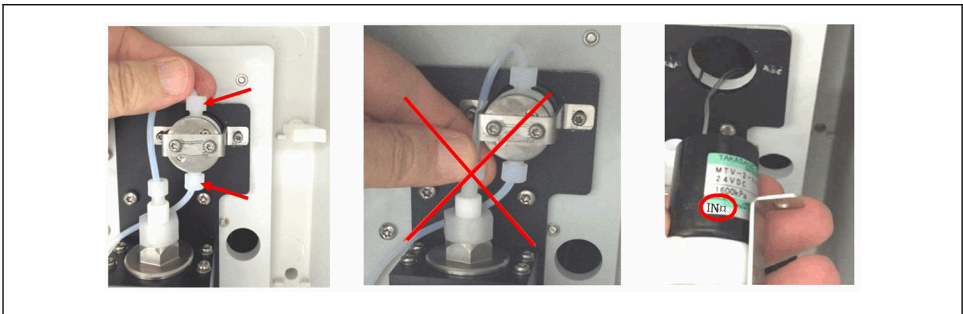
1. Carry out preparatory work as per section 6.2 →  17.
2. Loosen the screws in the safety cover (4x T10, see →  15,  24, left). Keep the screws for reuse. The cover is still held by the magnetic closure.
3. Loosen the screws of the carrier plate (6x T25) and fold the carrier plate forward. Keep the screws for reuse.
4. Release the lifting magnet by hand by pressing back the pin with your finger (see →  15,  24, center and right) and remove the safety cover.



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15 Magnetic closure for safety cover

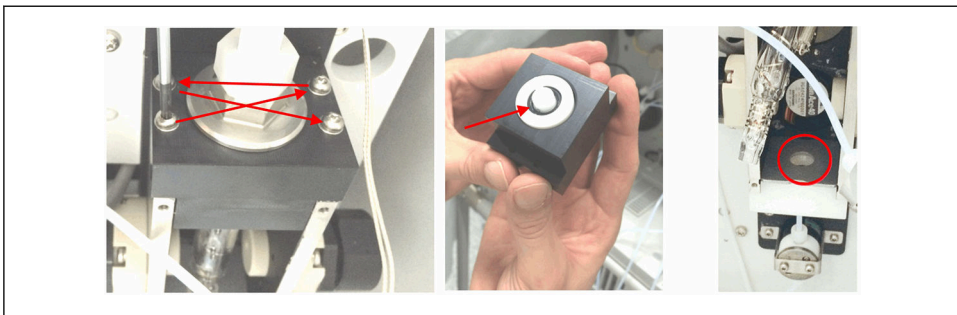
5. Detach the two hose connectors from the upper valve (see → 16, 24, left). **Do not** detach the hoses at the inputs of the reactor (see → 16, 24, center) or on the dosing unit.
6. Release the upper reactor valve (2x T10). Suspend the valve from the connection cable (see → 16, 24, right). Keep the screws for reuse.
7. **Note the installation position:** IN valve connection points toward the reactor.



A0058787

16 Removing the ventilation upper reactor valve (RVU)

8. Loosen the screws on the reactor cover (4x T10) cross-wise (see → 17, 25, left) and remove the cover. Keep the screws for reuse.
9. Remove the top O-ring from the cover (see → 17, 25, center). The O-ring **cannot** be reused after it has been removed! Fit a new O-ring (FFKM, ID 16.01 W 2.62 mm).



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


17 Removing the reactor and replacing the O-ring

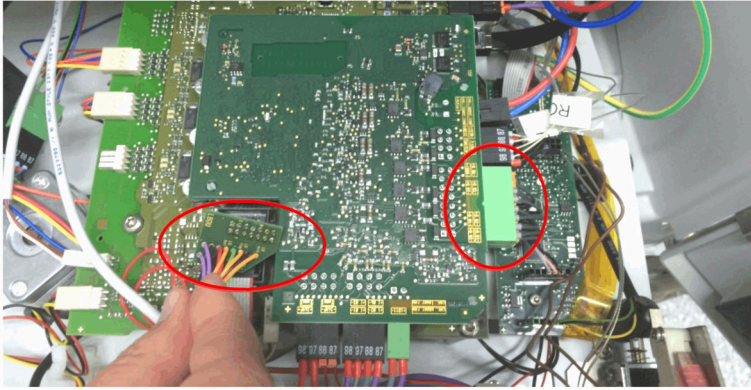
10. Pull the reactor cuvette upward to remove it in order to gain access to the reactor base. **Never touch the glass with your fingers! Wear clean, dry gloves.**
11. Remove the bottom O-ring (see → 17, 25, right). The sealing ring **cannot** be reused after it has been removed. Fit a new O-ring (FFKM, ID 4.42 W 2.62 mm).
12. Carefully insert the new reactor cuvette. **Installation position:** The studs that hold the heating wire must be visible from the front.
13. Place the reactor cover on the reactor cuvette. Screw the reactor cover onto the reactor cage cross-wise.
14. Connect the hose facing toward the ventilation/leakage detector to the **OUT** connection of the upper reactor valve.
15. Connect the hose to the reactor to the **IN** connection of the upper reactor valve.
16. When connecting the hoses, ensure that the cones sit correctly on the hoses (see → 2, 5, item A). **Handle the plastic threads of the couplings with care.**
17. Ensure that the hose for reactor ventilation is secured in the leakage detector. Route the hose through one of the guide shafts.
18. Reinstall the upper reactor valve on the reactor carrier plate (2x T10). The **IN** connection is facing upward and is connected to the reactor.
19. Fit and secure the safety cover. Ensure that the pin of the lifting magnet engages in the slot of the locking mechanism.
20. Fold the carrier plate back and secure it again (6x T25).
21. Put the analyzer back into operation → 31.

6.8 Replacing the dosing unit O-ring


i Affected components: See → 14 and → 2, 5, items 7, 12 and 18.



1. Carry out preparatory work as per section 6.2 → 17.

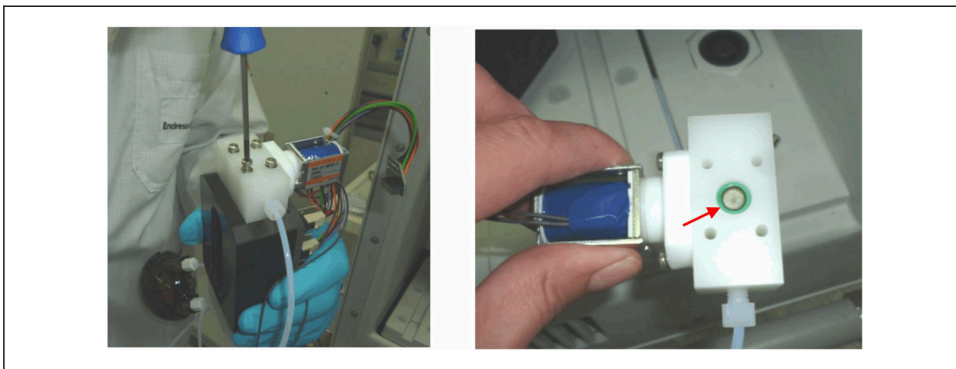
2. Loosen the screws in the safety cover (4x T10, see →  15,  24, left). Keep the screws for reuse. The cover is still held by the magnetic closure.
3. Loosen the screws of the carrier plate (6x T25) and fold the carrier plate forward. Keep the screws for reuse.
4. Disconnect the connectors for the valve block and light barrier modules on the control module (red markings →  18,  26).



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 18 Valve block and light barrier connections

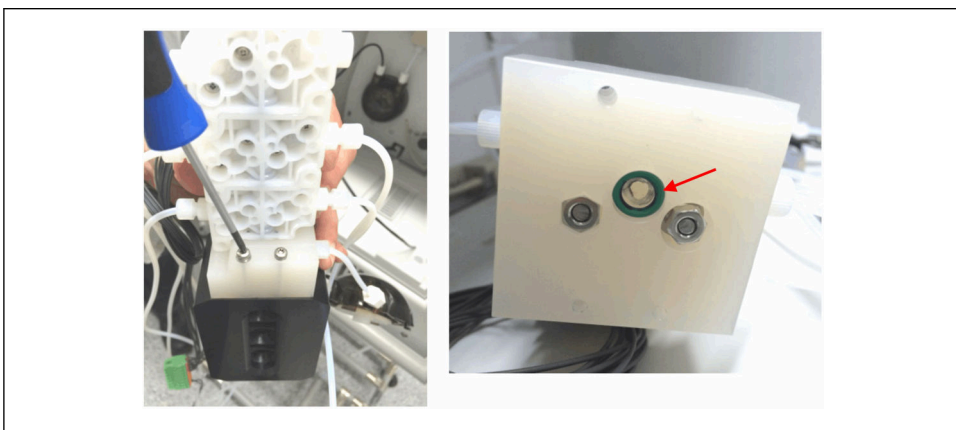
5. Fold the carrier plate back up and temporarily secure it with a screw.
6. Fully remove the dosing unit from the carrier plate (3x T10 screws, one of which is longer and has a spacer sleeve). Keep the screws for reuse.
7. Remove the white bleeder valve on top of the dosing unit (→  19,  27, left, 4x T10). Keep the screws for reuse.



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19 Replacing the bleeder valve O-ring

8. Remove the O-ring from the base of the bleeder valve (→ 19, 27, right). The O-ring **cannot** be reused.
9. Fit a new O-ring (FKM, ID 6.07 W 1.78 mm).
10. Remove the black block with the dosing tube from the white valve block (→ 20, 27, left, 4x T10).
11. Remove the O-ring from the white valve block (→ 20, 27, right). The O-ring **cannot** be reused.
12. Fit a new O-ring (FKM, ID 6.07 W 1.78 mm).



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20 Replacing the valve block O-ring

13. Screw the black block with the dosing tube back onto the valve block.

⚠ WARNING



- ▶ Stainless steel screws are screwed into plastic, therefore only tighten them until hand-tight to approx. 1 Nm. Hold on to the screwdriver with only three fingers.

14. Screw the bleeder valve back on. The solenoid coil must point toward the carrier plate.

⚠ WARNING

- ▶ Stainless steel screws are screwed into plastic, therefore only tighten them until hand-tight to approx. 1 Nm. Hold on to the screwdriver with only three fingers.





15. Guide the cables of the dosing unit (cables for valve block and light barriers) through the carrier plate and screw the dosing unit onto the carrier plate.


16. Fold out the carrier plate and plug the two connectors back into the suitable sockets on the FMAB1 module (red markings →  18,  26).

17. Fold the carrier plate back and secure it again (6x T25).

18. Put the analyzer back into operation →  31.

6.9 Replacing the peristaltic pump

 **Affected components:** See →  15 and →  2,  5, items 16 and 21.

 Devices with a low measuring range have one peristaltic pump.

Devices with a high measuring range have a dilution water pump and therefore have two peristaltic pumps.

1. Carry out preparatory work as per section 6.2 →  17.

2. Loosen the union nuts of the hose glands on the pump head and remove the hoses.

3. Loosen the screws of the carrier plate (6x T25) and fold the carrier plate forward. Keep the screws for reuse.

4. Unplug the connector for the affected pump on the FMAB1 module.

5. The pump is screwed in from the rear. Loosen the four screws and remove the entire pump by pulling it forward.


6. Secure the new pump and reinsert the connector.

7. Fold the carrier plate back and secure it again (6x T25).


8. Reconnect the PTFE hoses to the pumps. To do so, use the union nuts of the hose connectors at the pump inlet and outlet. Take care not to mix the hoses up.

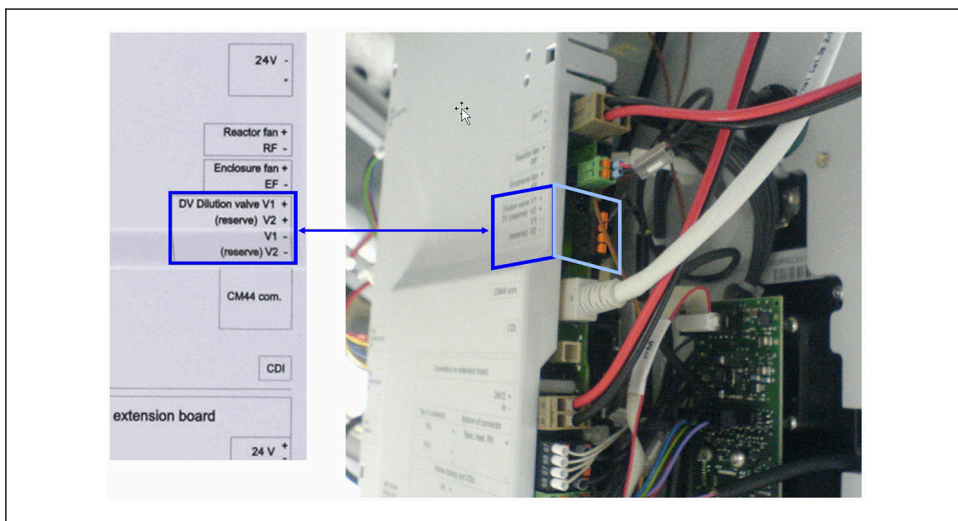
9. Put the analyzer back into operation →  31.

6.10 Replacing dilution valves CA80COD and TP

i Affected components: See →  8 (valve type 1) and (valve type 2).


i Valve type 1 for the dilution valve = kit 71431081 has been discontinued. Use type 2 = kit 71601539 instead.

1. Carry out preparatory work as per section 6.2 .
2. Release both ends of the affected PharMed® hose and remove the hose from the valve.
3. Loosen the screws of the carrier plate (6x T25) and fold the carrier plate forward. Keep the screws for reuse.
4. Remove the cover plate of the control module.
5. Remove the DV connector (V1 and V2, see ) of the valve from the control module and release the valve cables from the connector.
6. Loosen the two mounting screws of the affected valve and remove the valve by pulling it backward. Keep the mounting parts for reuse.



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 21 Connector for dilution valve

7. Fit the new valve.
8. Connect the cables of the valve to the connector (connections V1+ and V1-, the polarity is irrelevant) and reinsert the connector into the control module at DV (V1+ and V2-, see ) .

i We recommend using a new hose. The new hose can be cut cleanly and smoothly using a professional hose cutter.

9. Grease the new PharMed® hose with silicone grease and guide it through the valve.
10. Ensure that the hose remains in position when the valve is switched.





⚠ CAUTION**Risk of blockage, breakage, cracks or leaks!**

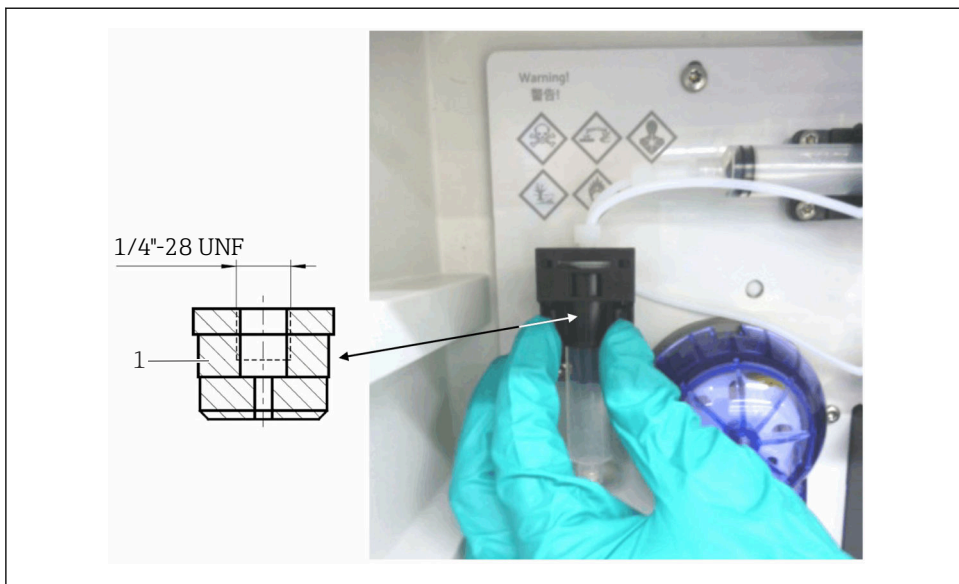
- ▶ Ensure that the hose lies without tension in the valve in order to prevent one-sided loads.

6.11 Replacing the cap for the dilution vessel

i Affected components: See →  16 and →  2,  5, items 14 and 22.

i The body of a dispenser is used as a dilution vessel.

1. Carry out preparatory work as per section 6.2 →  17.
2. Open the clip of the dispenser holder for the dilution vessel →  22,  31.
3. Remove the lower hose (PharMed® hose) from the tip of the dispenser.
4. Remove the upper hose (PTFE HOSE OD 3.2 mm) from the dilution vessel.
5. Replace the cap, including the hose gland.
6. Reassemble the dilution unit in the reverse order.
7. Put the analyzer back into operation →  31.



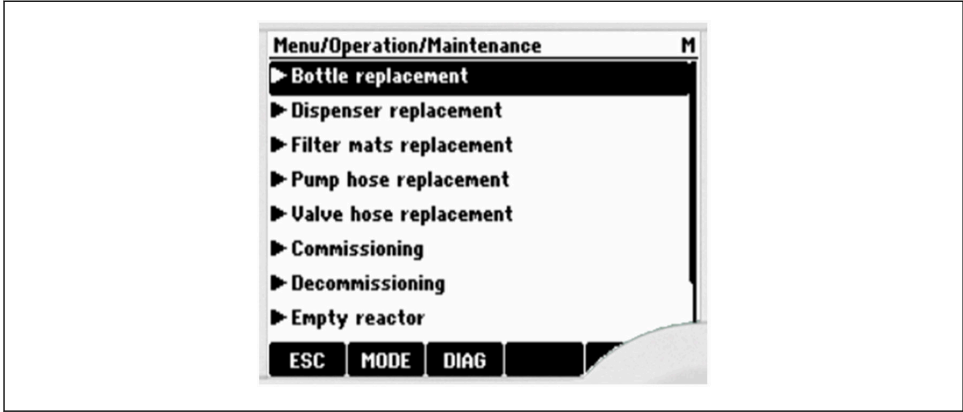
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☑ 22 Dilution vessel

1 Cap

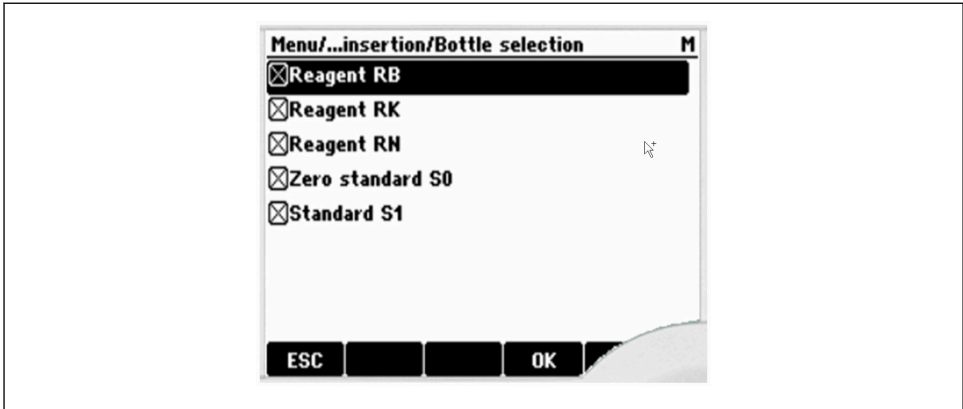
6.12 Recommissioning

1. Re-establish the power supply to the device.
2. Insert the bottle tray together with all bottles.
3. Screw the cover with the hoses onto the bottles. Ensure that the hoses are not mixed up! If in doubt, refer to the hose connection diagram on the inside of the device door.
4. Select **Menu** → **Operation** → **Maintenance** → **Bottle replacement**.

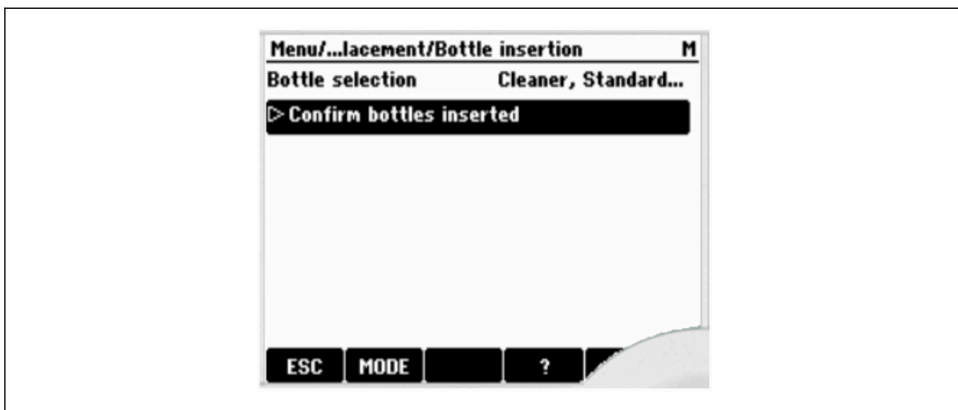


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5. Select the **Bottle insertion** entry, then the **Bottle selection** entry.
6. Activate all bottles and confirm by pressing **OK**. Confirm the **Bottle insertion** entry by pressing **OK**.
7. Press the **Bottles inserted confirmation** entry to confirm that all bottles have been inserted.

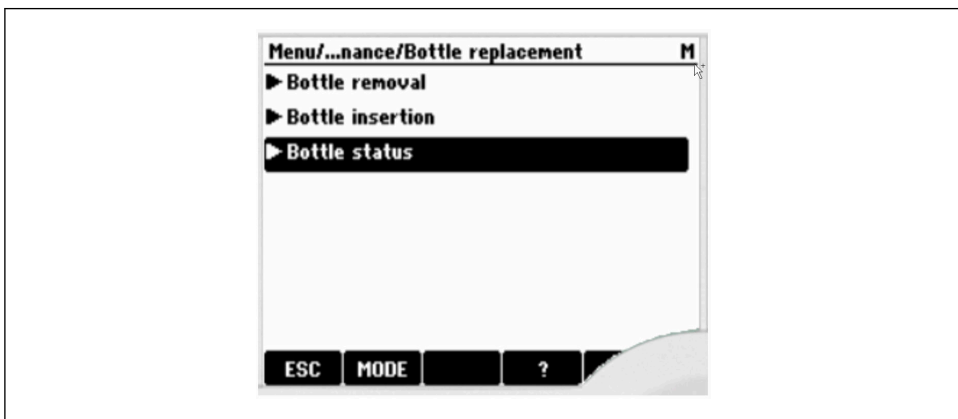


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8. Check the status of the bottles in the **Bottle status** menu. The status of all bottles must be "inserted". The analyzer will not start a measurement or calibration if any bottles are marked as "removed".



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9. Select **Menu** → **Operation** → **Maintenance** → **Commissioning**. Confirm the **Start commissioning** entry.

7 Additional documentation

Detailed information on the devices can be found in the Operating Instructions for the analyzer and in the other documentation, available at:

- www.endress.com/device-viewer
- Smartphone/tablet: Endress+Hauser Operations app

8 Disposal

 If required by the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), the product is marked with the depicted symbol in order to minimize the disposal of WEEE as unsorted municipal waste. Do not dispose of products bearing this marking as unsorted municipal waste. Instead, return them to the manufacturer for disposal under the applicable conditions.



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