

# Installation Instructions

## **CA8x/CAT8xx**

Hose connector



**Table of contents**

1 Overview ..... 3

2 Designated use ..... 3

3 Personnel authorized to carry out conversion ..... 3

4 Safety instructions ..... 4

5 Scope of delivery ..... 6

6 Connector installation locations ..... 11













7 Additional documentation ..... 16

8 Disposal ..... 16

# 1 Overview

## 1.1 Spare parts kits

These installation instructions apply to the following spare parts kits:

Order code	Designation	Page
71218484	CA8x Double hose connector (10 x)	→  6
71229919	CA8x 10 x Y-connectors 6.4 x 6.4 x 6.4 mm	→  6
71229920	CA8x 10 x Y-connectors 3.2 x 3.2 x 3.2 mm	→  7
71523852	CA8x 10 x CA8x 10 x coupling – G ¼ DN1/16 PP	→  7
71222212	CAT860 T-hose connector	→  8
71222213	CAT820/860 Hose connector, straight, G ¼	→  8
71222214	CATxx Hose connector 90°	→  9
71326152	CAT860 Hose connector 90°	→  9
71222175	CAT820/860 L plug-in connector	→  10
71222216	CAT8xx 10 x Hose connectors G ¼	→  10
71222236	CAT810 10 x Hose connectors G ¼, 90°	→  11
71241442	CAT820/860 10 x Connectors for peristaltic pump	→  11

## 2 Designated use

- The parts of the kits must be used exclusively as spare parts for the CA8x analyzers and CAT8xx sample preparation systems. Any other use is not permitted!
- The parts are not intended for regular maintenance, but for repair work on CA8x analyzers and CAT8xx sample preparation systems.
- Only use 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**

#### **Danger of death from electrical 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. The CA8x analyzers and CAT8xx sample preparation systems do not have a switch for the power supply.
- ▶ All work must be carried out according to applicable safety standards.

### **CAUTION**

#### **Risk to health due to contact with the process medium!**

- ▶ Wear protective gloves, protective goggles and protective clothing, particularly when working with reagents, chemicals or process solutions.

### **CAUTION**

#### **Risk of infection when working with wastewater!**

- ▶ Wear protective gloves, protective goggles and protective clothing.
- ▶ Observe applicable workplace safety regulations.
- ▶ 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.





#### **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. Discuss service tasks with the operator!

- Safety measures are determined based on the operating location of the connector. Appropriate measures must be taken to ensure workplace safety, such as:
  - Cleaning and flushing the system,
  - Stopping sample transport,
  - Emptying the sample preparation system.
- Follow the instructions in the Operating Instructions for the analyzer and sample preparation system.
- Useful guidance can be found in the “Maintenance Instructions for the Liquiline CA80 System” or the “Commissioning Instructions for the Liquiline CA80 System”.

## 5 Scope of delivery

### 5.1 71218484 Kit CA8x Double hose connector (10 x)


Installation location: →  13,  12

The kit contains the following parts →  1,  6:





- |      |                                    |     |                  |
|------|------------------------------------|-----|------------------|
| 10 x | Hose push-fit nozzle OD 4 mm       | 1 x | Kit instructions |
| 10 x | Straight connector for 2 x OD 4 mm |     |                  |



A0057419

-  1 Straight connector with push-fit nozzle (material: POM)

### 5.2 71229919 Kit CA8x 10 x Y-connectors 6.4 x 6.4 x 6.4 mm


Installation location: →  13,  12 and →  14,  12

The kit contains the following parts →  2,  6:





- |      |                                |     |                  |
|------|--------------------------------|-----|------------------|
| 10 x | Y-connector 6.4 x 6.4 x 6.4 mm | 1 x | Kit instructions |
|------|--------------------------------|-----|------------------|



A0057420

-  2 Y-connector 6.4 x 6.4 x 6.4 mm (material: PP)

### 5.3 71229920 Kit CA8x: 10 x Y-connectors 3.2 x 3.2 x 3.2 mm

Installation location: →  13,  12 and →  14,  12


The kit contains the following parts →  3,  7:

10 x Y-connector 3.2 x 3.2 x 3.2 mm







1 x Kit instructions



A0057421

 3 Y-connector 3.2 x 3.2 x 3.2 mm (material: PP)

### 5.4 71523852 Kit CA8x 10 x coupling – G 1/8 DN 1/16 PP

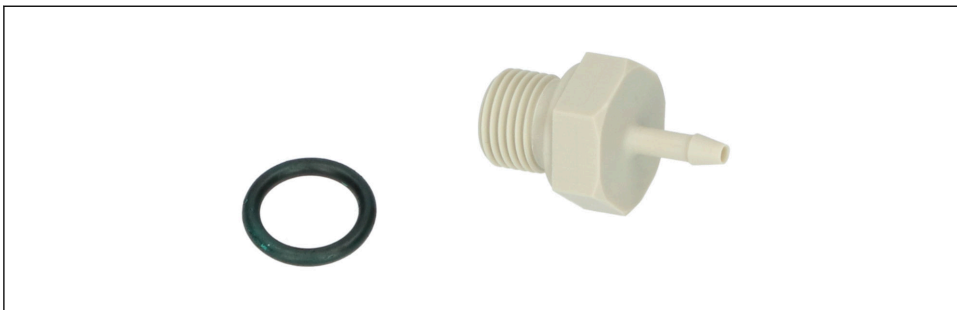
Installation location: →  13,  12, →  14,  12 and →  15,  13

The kit contains the following parts :


10 x Fitting, coupling – G 1/8 DN 1/16 PP

1 x Kit instructions



10 x O-ring, EPDM



A0058773

 4 10 x coupling – G 1/8 DN 1/16 PP

### 5.5      71222212 Kit CAT860 T-hose connector


Installation location: →  18,  14

The kit contains the following parts →  5,  8:







- 10 x      T-hose connector G 1/8, OD 4 mm
- 1 x      Kit instructions



A0057423

-  5      T-shape hose connector, for hose with OD 4 mm (material: PVDF)

### 5.6      71222213 Kit CAT820/860 Hose connector, straight, G 1/8


Installation location: →  15,  13, →  17,  14 and →  18,  14

The kit contains the following parts →  6,  8:

- 10 x      Hose conn. straight, G 1/8, OD 4 mm
- 1 x      Kit instructions





A0057424

-  6      Hose connector, straight, G 1/8 for hose with OD 4 mm (material: POM)



## 5.7 7122214 Kit CATxx Hose connector 90°

Installation location: →  17,  14


The kit contains the following parts →  7,  9:

10 x hose conn. 90°, G 1/8, OD 4 mm







1 x Kit instructions



A0057425

 7 Hose connector 90°, G 1/8 for hose with OD 4 mm (material: POM)

## 5.8 71326152 Kit CAT860 Hose connector 90°

Installation location: →  18,  14, →  21,  15 and →  22,  16


The kit contains the following parts →  8,  9:

10 x hose conn. 90°, G 1/8, OD 4 mm



1 x Kit instructions





A0057426

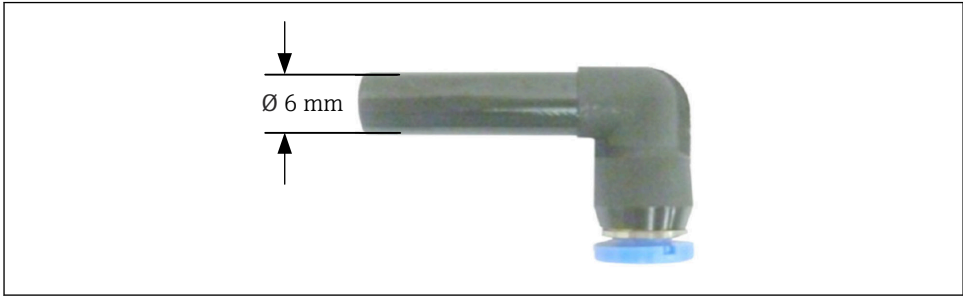
 8 Hose connector 90°, G 1/8, for hose with OD 4 mm (material: PVDF)

### 5.9 71222175 Kit CAT820/860 L plug-in connector


Installation location: →  17,  14

The kit contains the following parts →  9,  10:



- 10 x L-shaped plug-in connector
- 1 x Kit instructions





A0057427

-  9 L-shaped connector, for hose with OD 4 mm (material: PBT)

### 5.10 71222216 Kit CAT8xx 10 x hose connectors G ¼


Installation location: →  19,  15

The kit contains the following parts →  10,  10:


- 10 x Hose connector G ¼, OD 4 mm
- 1 x Kit instructions



A0057428

-  10 Hose connector, G ¼ for hose with OD 4 mm (material: POM)

## 5.11 7122236 Kit CAT810 10 x hose connectors G 1/4, 90°

Installation location: →  20,  15


The kit contains the following parts →  11,  11:

10 x Hose connector G 1/4, 90°, OD 4 mm





1 x Kit instructions



A0057429

 11 Hose connector G 1/4, 90° for hose with OD 4 mm (material: POM)

## 5.12 71241442 Kit CAT820/860 10 x connector f. peristaltic pump

Installation location: →  17,  14 and →  18,  14


The kit contains the following parts →  12,  11:

10 x Connector for peristaltic pump OD 4 mm

1 x Kit instructions



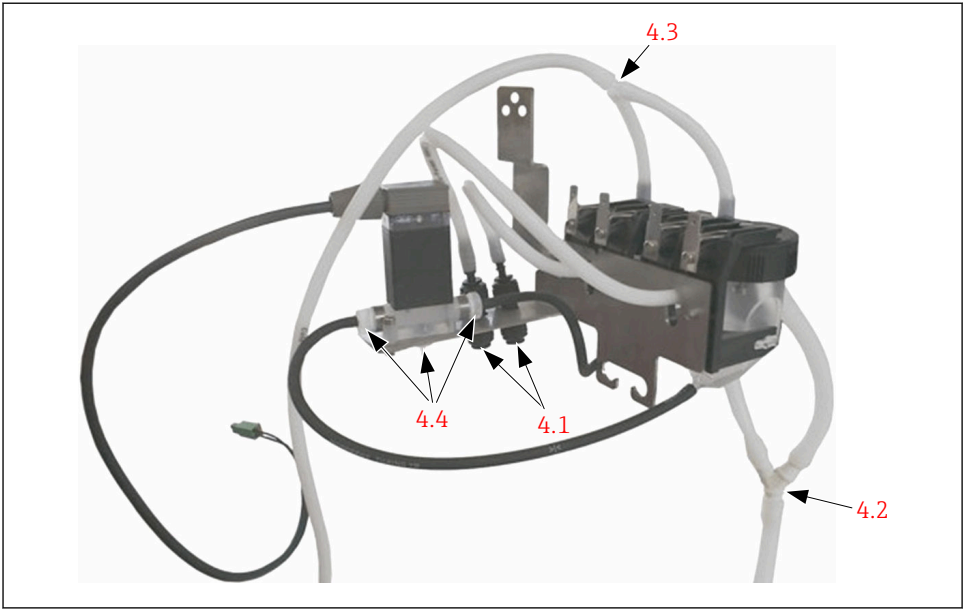
A0057430

 12 Connector for peristaltic pump, for hose OD 4 mm (material: PP)

## 6 Connector installation locations

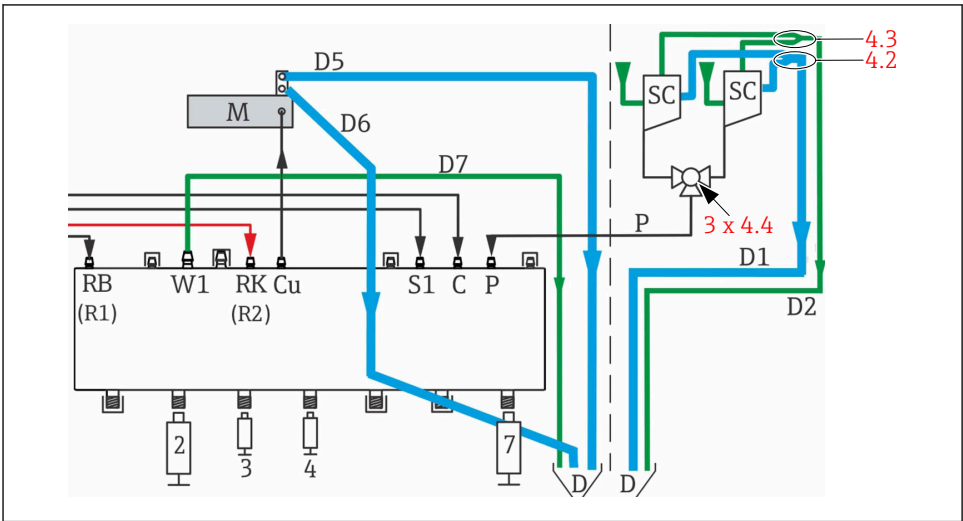
The following figures show the mounting positions of the hose connectors.

The position numbers in red refer to the corresponding Sections 4.1 →  6 to Section 4.12 →  11 of this manual.



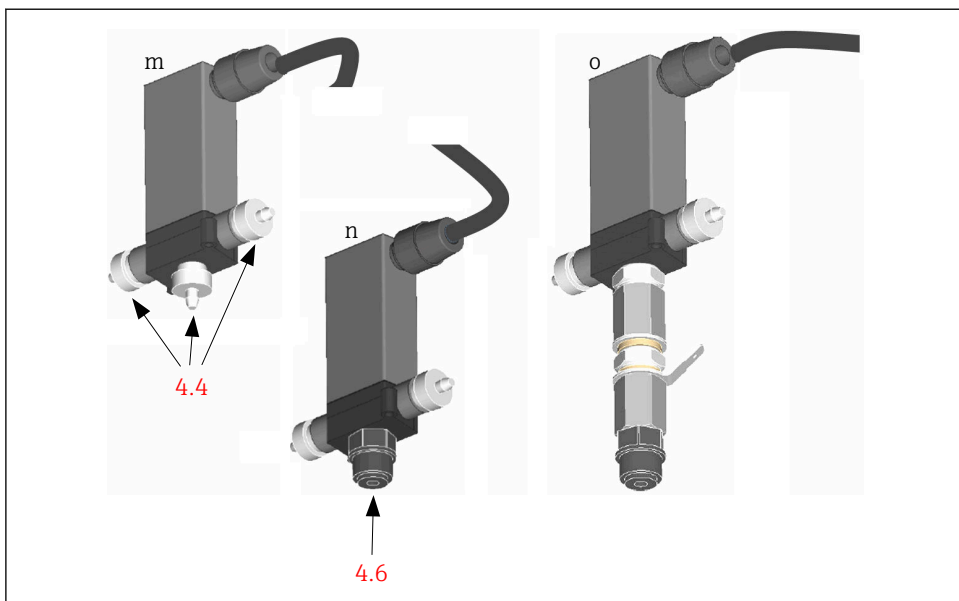
A0057431

13 Hose connectors for sample preparation



A0057435

14 Hose connectors for 2-channel version



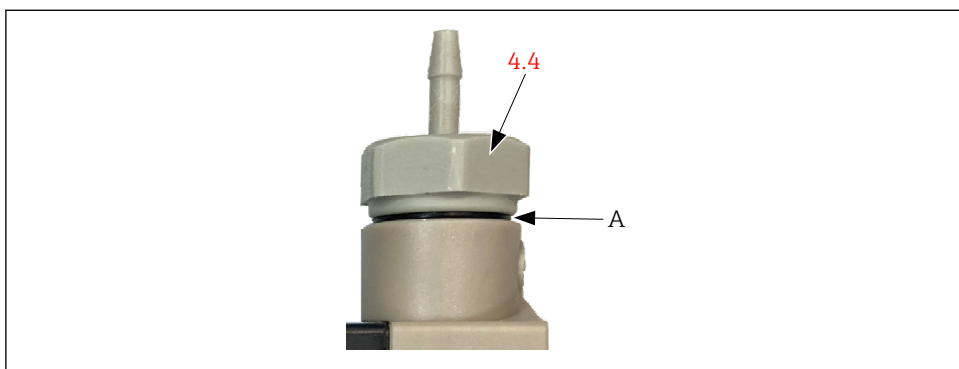
A0057436

15 Hose connectors for valves

*m* Valve for 2-channel analyzer

*n* Valve for 2nd analyzer

*o* Valve for CA80 with CAT860

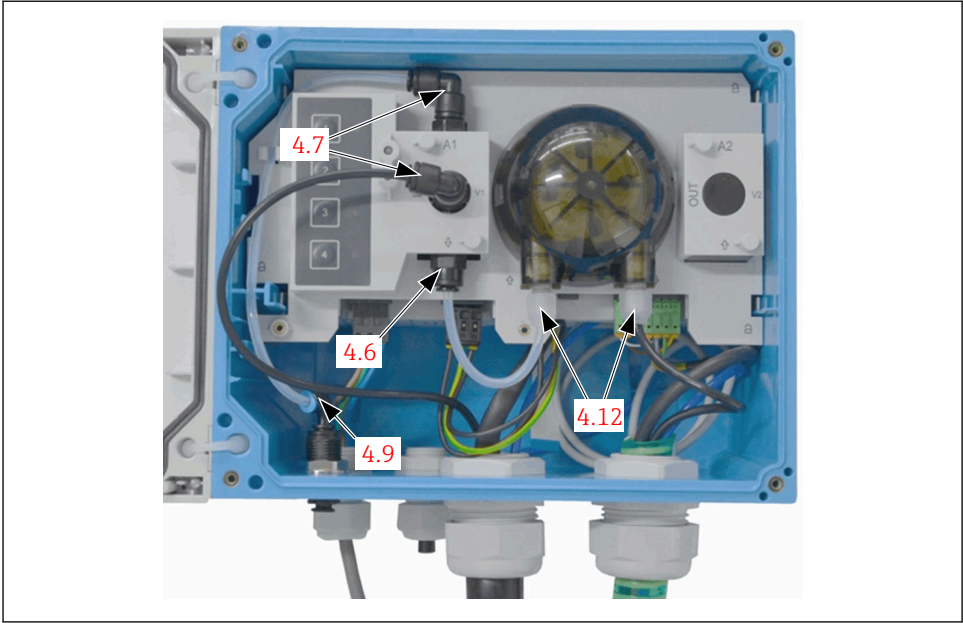


A0058774

16 Addition to Fig. 14: Fitting the hose connector valves

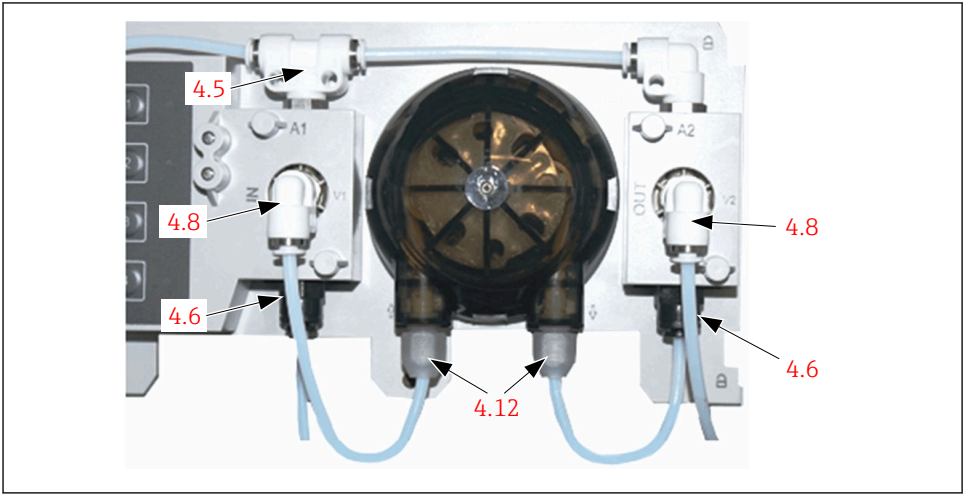
*A* O-ring

 Tighten the connectors with an open-ended wrench (AF 14). Torque: 1 Nm



A0057438

17 CAT820 hose connector



A0057439

18 CAT860 hose connector



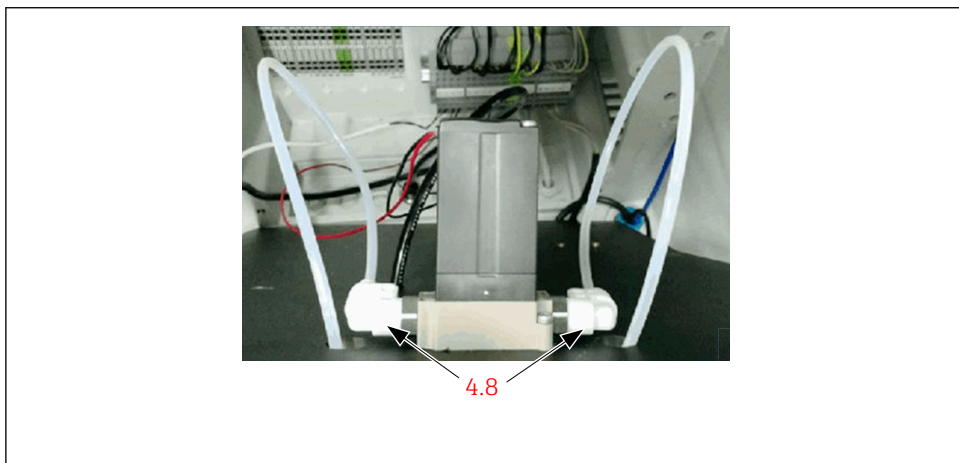
A0057440

19 Hose connector for filter



A0057441

20 Hose connector for CAT810 cleaning valve



A0057442

21 CAT860 valve for cleaner



A0057443

22 CAT860 vacuum pump for cleaner

## 7 Additional documentation

Detailed information on the device can be found in the Operating Instructions for the transmitter and in the other documentation available at:

- [www.endress.com/device-viewer](http://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.



---

---

---



71708093

[www.addresses.endress.com](http://www.addresses.endress.com)

---