

Operating Instructions

Flexdip CYA112

Wastewater assembly

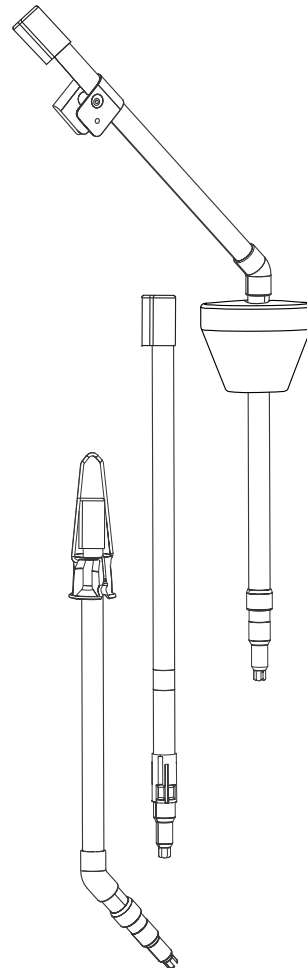





Table of contents








1	About this document	4
1.1	Warnings	4
1.2	Symbols used	4
2	Basic safety instructions	5
2.1	Requirements for personnel	5
2.2	Designated use	5
2.3	Workplace safety	5
2.4	Operational safety	6
2.5	Product safety	6
3	Product description	7
3.1	Product design	7
4	Incoming acceptance and product identification	8
4.1	Incoming acceptance	8
4.2	Product identification	8
4.3	Scope of delivery	9
4.4	Certificates and approvals	10
5	Installation	11
5.1	Installation conditions	11
5.2	Mounting the assembly	12
5.3	Post-installation check	20
6	Maintenance	21
6.1	Maintenance tasks	21
7	Repair	23
7.1	Return	23
7.2	Disposal	23
8	Accessories	24
9	Technical data	33
9.1	Environment	33
9.2	Process	33
9.3	Mechanical construction	33
Index	35	

1 About this document


1.1 Warnings

Structure of information	Meaning
<p> DANGER</p> <p>Causes (/consequences) If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> ▶ Corrective action 	<p>This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation will result in a fatal or serious injury.</p>
<p> WARNING</p> <p>Causes (/consequences) If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> ▶ Corrective action 	<p>This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation can result in a fatal or serious injury.</p>
<p> CAUTION</p> <p>Causes (/consequences) If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> ▶ Corrective action 	<p>This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or more serious injuries.</p>
<p>NOTICE</p> <p>Cause/situation If necessary, Consequences of non-compliance (if applicable)</p> <ul style="list-style-type: none"> ▶ Action/note 	<p>This symbol alerts you to situations which may result in damage to property.</p>

1.2 Symbols used

Symbol	Meaning
	Additional information, tips
	Permitted or recommended
	Not permitted or not recommended
	Reference to device documentation
	Reference to page
	Reference to graphic
	Result of a step


1.2.1 Symbols on the device

Symbol	Meaning
	Reference to device documentation

2 Basic safety instructions

2.1 Requirements for personnel

- 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 carry out the specified activities.
- The electrical connection may be performed only by an electrical technician.
- The technical personnel must have read and understood these Operating Instructions and must follow the instructions contained therein.
- Faults at the measuring point may only be rectified by authorized and specially trained personnel.

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

2.2 Designated use

CYA112 is designed as a modular assembly system for sensors in unpressurized operation in open basins, channels and tanks.

The assembly is designed exclusively for use in liquid media.

Use of the device for any purpose other than that described, poses a threat to the safety of people and of the entire measuring system and is therefore not permitted.

The manufacturer is not liable for damage caused by improper or non-designated use.

2.3 Workplace safety

As the user, you are responsible for complying with the following safety conditions:

- Installation guidelines
- Local standards and regulations
- Regulations for explosion protection

2.4 Operational safety

Before commissioning the entire measuring point:

1. Verify that all connections are correct.
2. Ensure that electrical cables and hose connections are undamaged.
3. Do not operate damaged products, and protect them against unintentional operation.
4. Label damaged products as defective.

During operation:

- ▶ If faults cannot be rectified:
products must be taken out of service and protected against unintentional operation.

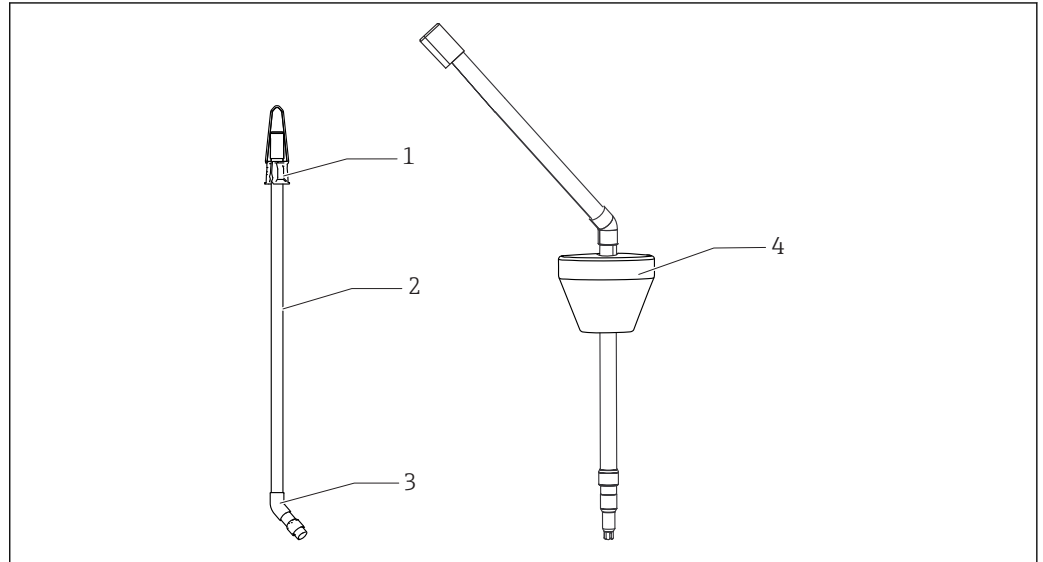
2.5 Product safety

2.5.1 State-of-the-art technology

The product is designed to meet state-of-the-art safety requirements, has been tested, and left the factory in a condition in which it is safe to operate. The relevant regulations and international standards have been observed.

3 Product description

3.1 Product design



 1 CYA112 assembly without float (left) and with float (right)

- 1 Multifunctional clamp ring
- 2 Immersion tube
- 3 Bracket
- 4 Float

The assembly is suitable for installation at different heights in a variety of basins.

 The assembly must be installed depending on the ambient conditions.

4 Incoming acceptance and product identification

4.1 Incoming acceptance

1. Verify that the packaging is undamaged.
 - ↳ Notify the supplier of any damage to the packaging.
Keep the damaged packaging until the issue has been resolved.
2. Verify that the contents are undamaged.
 - ↳ Notify the supplier of any damage to the delivery contents.
Keep the damaged goods until the issue has been resolved.
3. Check that the delivery is complete and nothing is missing.
 - ↳ Compare the shipping documents with your order.
4. Pack the product for storage and transportation in such a way that it is protected against impact and moisture.
 - ↳ The original packaging offers the best protection.
Make sure to comply with the permitted ambient conditions.

If you have any questions, please contact your supplier or your local Sales Center.

4.2 Product identification

4.2.1 Nameplate

The nameplate provides you with the following information on your device:

- Manufacturer identification
 - Order code
 - Extended order code
 - Serial number
 - Ambient and process conditions
 - Safety information and warnings
- ▶ Compare the information on the nameplate with the order.

4.2.2 Identifying the product

Product page

www.endress.com/cya112

Interpreting the order code

The order code and serial number of your product can be found in the following locations:

- On the nameplate
- In the delivery papers

Obtaining information on the product

1. Go to www.endress.com.
2. Call up the site search (magnifying glass).
3. Enter a valid serial number.
4. Search.
 - ↳ The product structure is displayed in a popup window.

5. Click on the product image in the popup window.
 - ↳ A new window (**Device Viewer**) opens. All of the information relating to your device is displayed in this window as well as the product documentation.

4.2.3 Manufacturer's address

Endress+Hauser Conducta GmbH+Co. KG
Dieselstraße 24
D-70839 Gerlingen

4.3 Scope of delivery

The scope of delivery comprises:

- Ordered version of assembly
- Operating Instructions
- ▶ If you have any queries:
Please contact your supplier or local sales center.

4.4 Certificates and approvals

4.4.1 Ex approval

The stainless steel version of the CYA112 assembly (CYA112-****21*2****) may also be used in the hazardous area in Zone 1 and 2.

It does not have special Ex identification labeling, as the assembly does not have a potential ignition source of its own and ATEX Directive 2014/34/EU therefore does not apply.

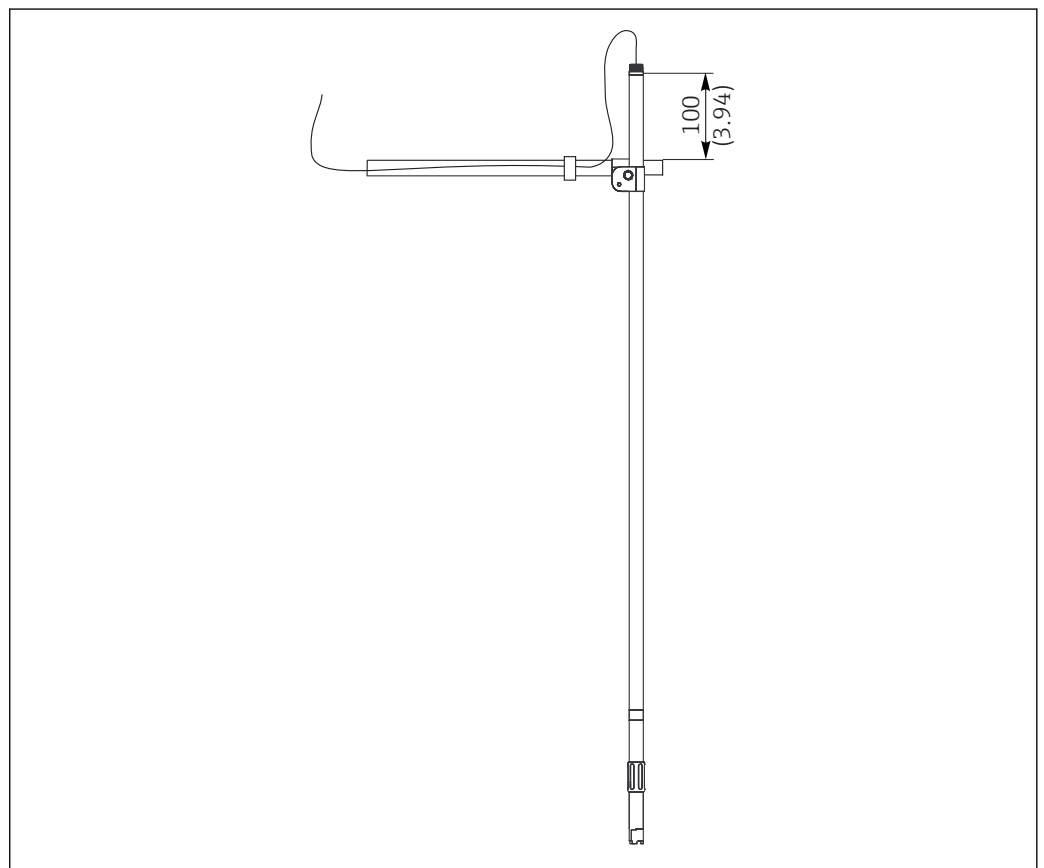
If sensors have accessible metal surfaces, these sensors must be included in the potential equalization system as indicated in the Operating Instructions for the sensor in question.

5 Installation

5.1 Installation conditions

5.1.1 Mounting instructions

- Select the mounting location so that a sufficient distance to fixed installations is ensured. No damage to the sensor may occur even when the medium is moving.
- For fixed installation, select the retaining point so that the proper operation and maintenance of the assembly is guaranteed.
- The immersion tube must protrude over the retaining point by at least 100 mm (3.94 in).
- Potential equalization must be implemented at the place of installation.
- All electrically conductive parts must be interconnected.



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2 Retaining point (shown without splash protection cap). Dimensions: mm (in)

For use in hazardous areas:

- There must be an electrically conductive connection between the immersion tube side of the assembly and the holder.
- If the assembly is secured using a chain and retaining bracket, a separate conductor for potential matching must be routed alongside the measuring cable.
- If sensors have accessible metal surfaces, these sensors must be included in the potential equalization system as indicated in the Operating Instructions for the sensor in question.

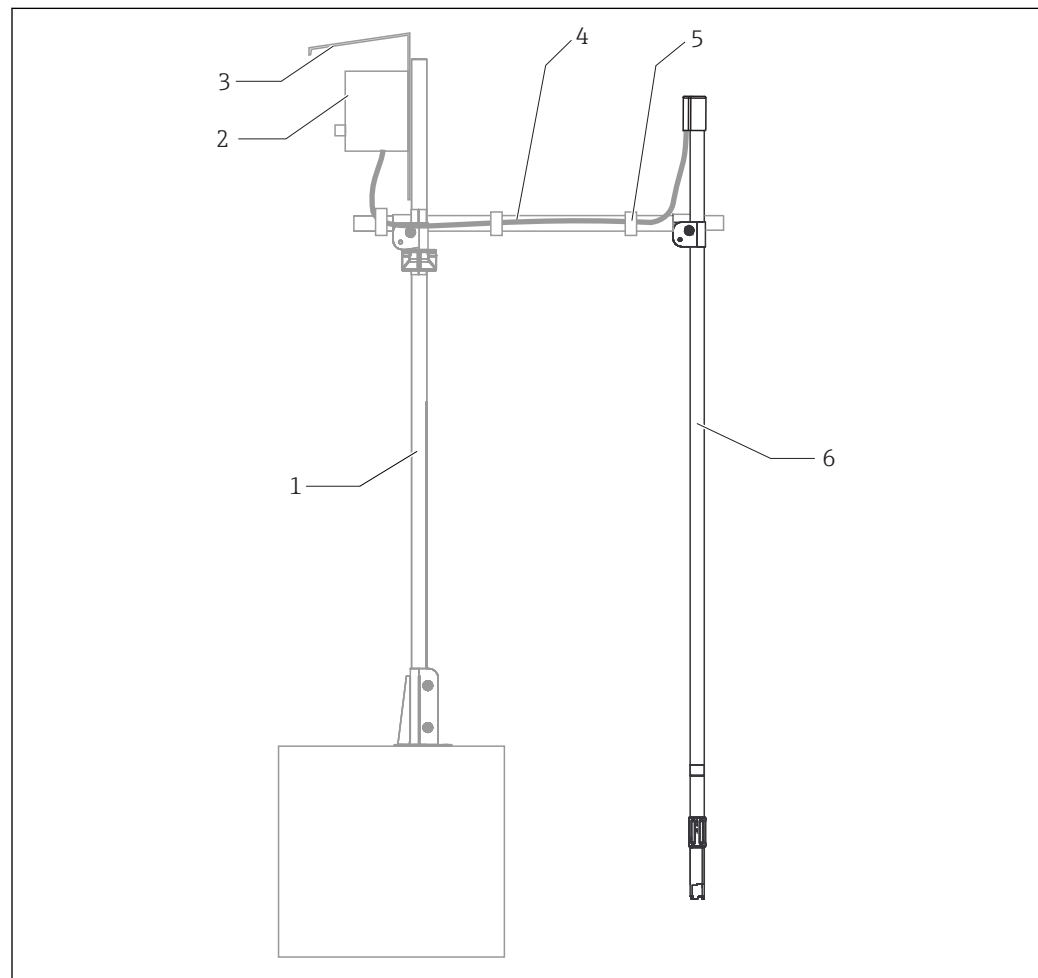
5.2 Mounting the assembly

 For more information on mounting the assembly with the holder, see Operating Instructions BA00430C


5.2.1 Measuring system

A complete measuring system consists of:

- CYA112 assembly
- CYH112 holder
- Transmitter, e.g. Liquiline CM44
- Sensor, e.g. CUS71D



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 3 *Measuring system with CYA112 assembly*

- 1 *Main pipe of CYH112 holder*
- 2 *Transmitter*
- 3 *Protective cover*
- 4 *Transverse pipe of CYH112 holder*
- 5 *Cable ties*
- 6 *CYA112 assembly*

5.2.2 Mounting stainless steel parts

- ▶ Screw the tubes together finger-tight (no gaps).

 The threads are lubricated and provided with an O-ring.

5.2.3 Gluing PVC parts

i PVC assemblies measuring up to 1 200 mm (47.2 in) are delivered as ready-to-install units and do not have to be glued.

Cleaning cloths and adhesive are included in the delivery.

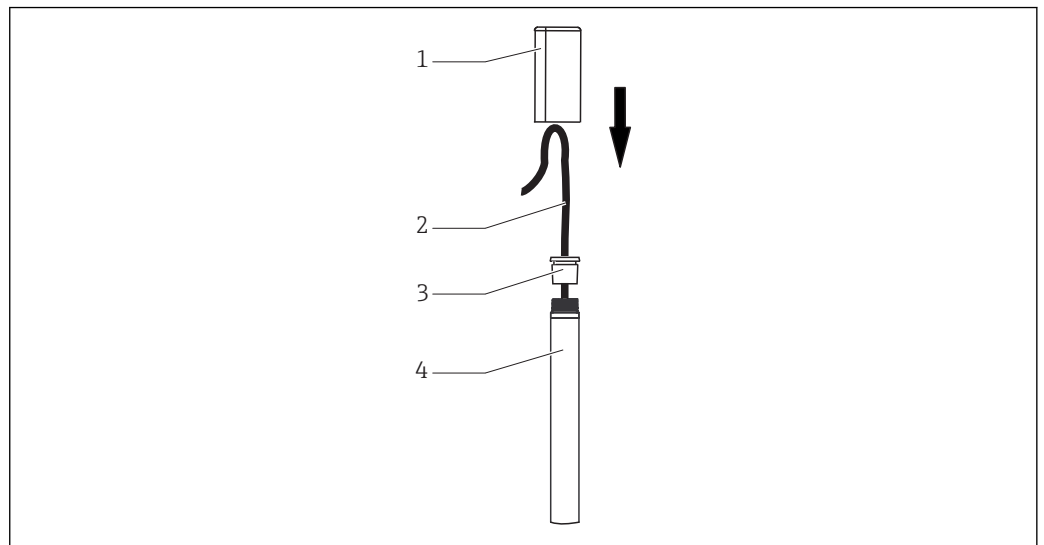
Gluing PVC parts

1. Clean the surfaces to be glued (exterior of pipe end, adhesive fitting or inside of connecting pipe) with the cleaning cloth.
2. Allow the cleaned surfaces to dry for approx. 5 minutes.
3. Apply the glue evenly (closed adhesive layer) to the surfaces (first adhesive fitting, then pipe).
4. Push the parts together to the end stop.
 - ↳ Join them within one minute.
5. Remove any excess glue.
6. Allow the glued parts to harden for at least 5 minutes.

5.2.4 Mounting the sensor

Preparation:

1. Screw or glue the connecting pipe onto the immersion tube.
2. Where necessary, screw the sensor adapter onto the connection pipe.



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i 4 Cable routing

- 1 *Splash protection cap*
- 2 *Sensor cable*
- 3 *Rubber plug*
- 4 *Immersion tube*

Mounting Memosens sensors

1. Route the sensor cable through the immersion tube.
2. Connect the sensor cable to the sensor.
3. Screw the sensor into the adapter or the connecting pipe.
4. Shorten the tip of the rubber plug to match the cable diameter.
5. Fit the rubber plug onto the sensor cable.

6. Press the rubber plug onto the immersion tube.
7. Route the sensor cable downwards in a loop (do not bend).
8. Fit the splash protection cap.
 - ↳ The splash protection cap is fixed in place by the lip of the rubber plug.

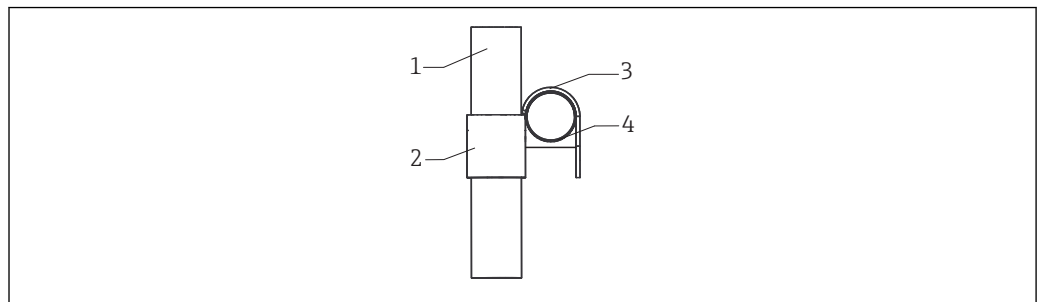
Mounting sensors with a fixed cable

1. Route the sensor cable through the immersion tube.
2. Screw the sensor into the adapter or the connecting pipe.
3. In doing so, turn the assembly and not the sensor to ensure that the sensor cable is not twisted.
4. Shorten the tip of the rubber plug to match the cable diameter.
5. Fit the rubber plug onto the sensor cable.
6. Press the rubber plug onto the immersion tube.
7. Route the sensor cable downwards in a loop (do not bend).
8. Fit the splash protection cap.
 - ↳ The splash protection cap is fixed in place by the lip of the rubber plug.

5.2.5 Fixed installation of the assembly on a transverse pipe

Prerequisite

The sensor is already mounted.

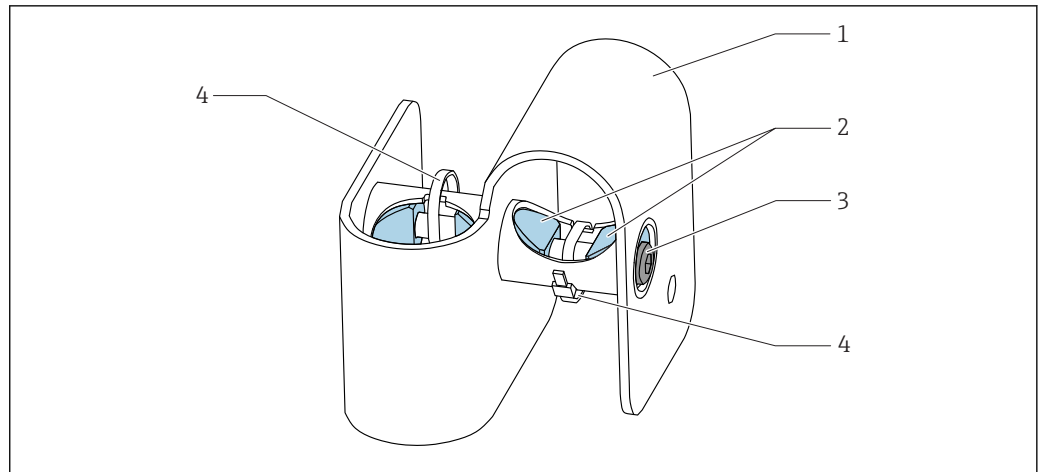


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5 Mounting the cross clamp

- 1 Main pipe
- 2 Cross clamp, closed side facing center of basin
- 3 Cross clamp, closed side facing upwards
- 4 Transverse pipe of CYH112 holder

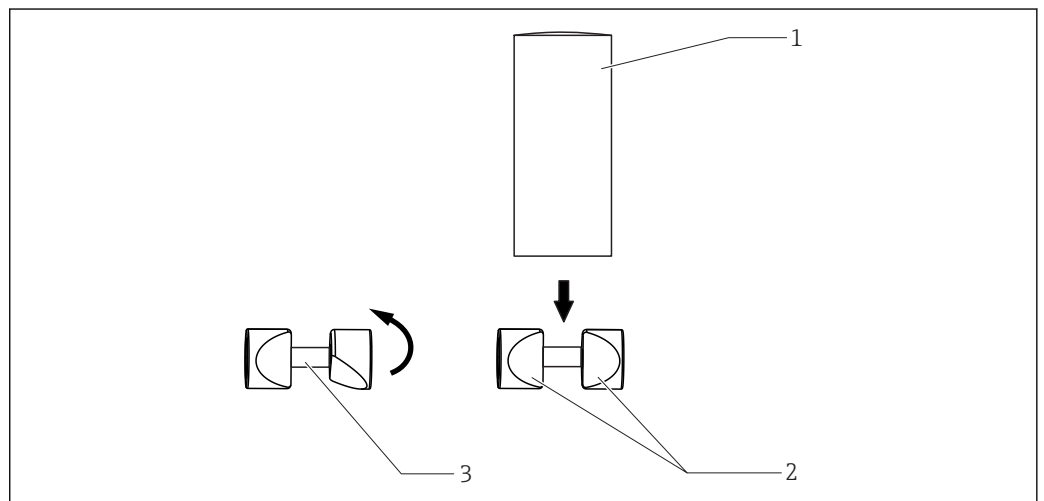
- ▶ Mount the cross clamp in such a way that one closed side faces the center of the basin while the other closed side faces upwards → 5, 14.



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6 Cross clamp

- 1 Cross clamp
- 2 Clamps
- 3 Clamp screw
- 4 Hook-and-loop cable ties



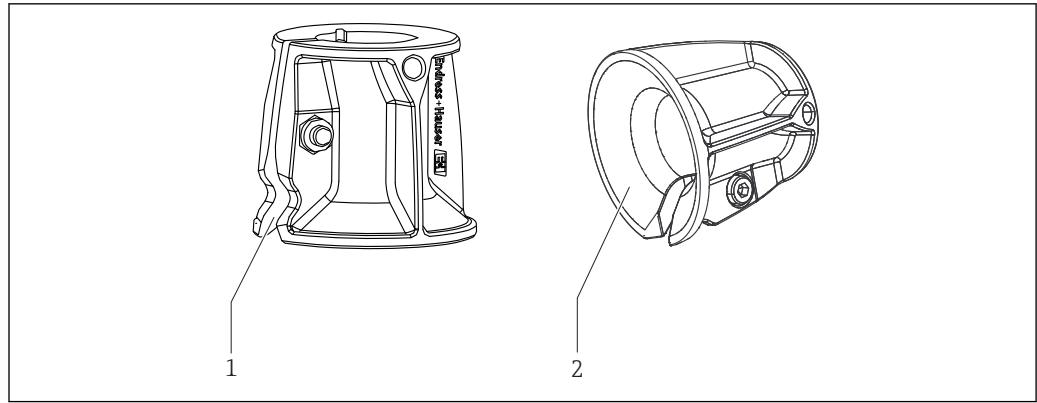
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7 Adjusting the clamps

- 1 Pipe
- 2 Clamps
- 3 Clamp screw

Mounting the main pipe

1. Adjust the clamps on the cross clamp → 6, 15.
2. Slide the cross clamp over the main pipe.
 - ↳ Make sure that the closed side of the cross clamp faces upwards → 5, 14.
3. Mount the multifunctional clamp ring on the immersion tube above the cross clamp (funnel-shaped side facing upwards → 8, 16).
 - ↳ The multifunctional clamp ring acts as an anti-slip lock.
4. Attach the cross clamp, along with the immersion tube, to the transverse pipe of the bracket.
 - ↳ Make sure that the closed side of the cross clamp faces towards the basin.
5. Align the assembly and the holder.
6. Tighten the clamp screws finger-tight. Finger-tight corresponds to 13 Nm (9.6 lbf ft).



8 Multifunctional clamp ring

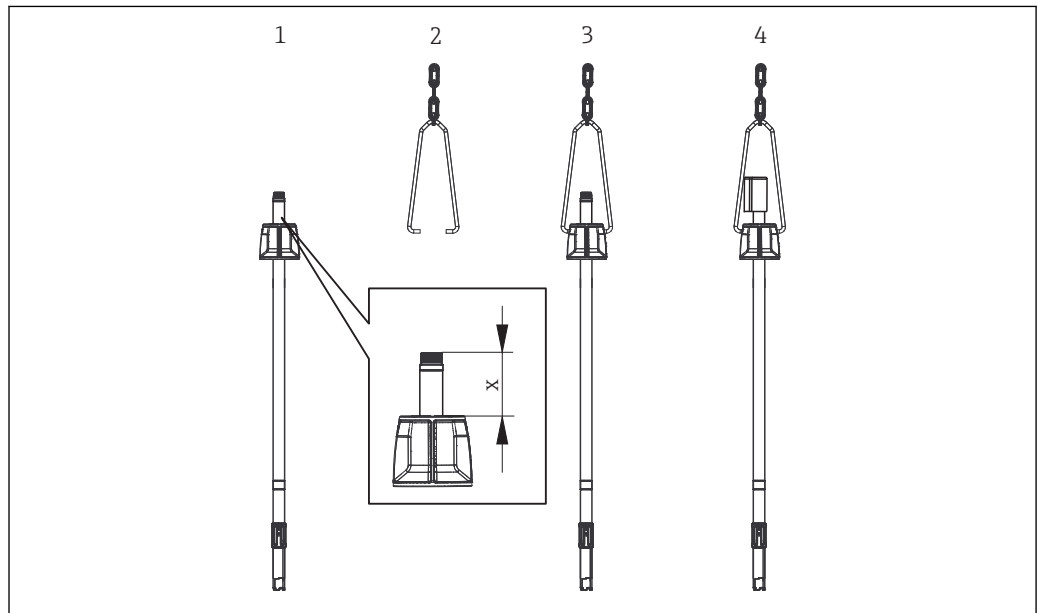
- 1 Slot in the multifunctional clamp ring
- 2 Multifunctional clamp ring, funnel-shaped side

5.2.6 Installing the assembly on a chain retainer

Prerequisite:

- The immersion tube is fitted with the sensor.
- The CYH112 holder with chain is installed.



 For detailed information on the CYH112 holder, see Operating Instructions BA00430C





9 Mounting the chain retainer

- 1 Mount the multifunctional clamping ring
- 2 Guide the bracket into the chain
- 3 Hook the bracket into the multifunctional clamping ring
- 4 Fit the splash protection cap
- x 60 to 80 mm (2.35 to 3.15 in)

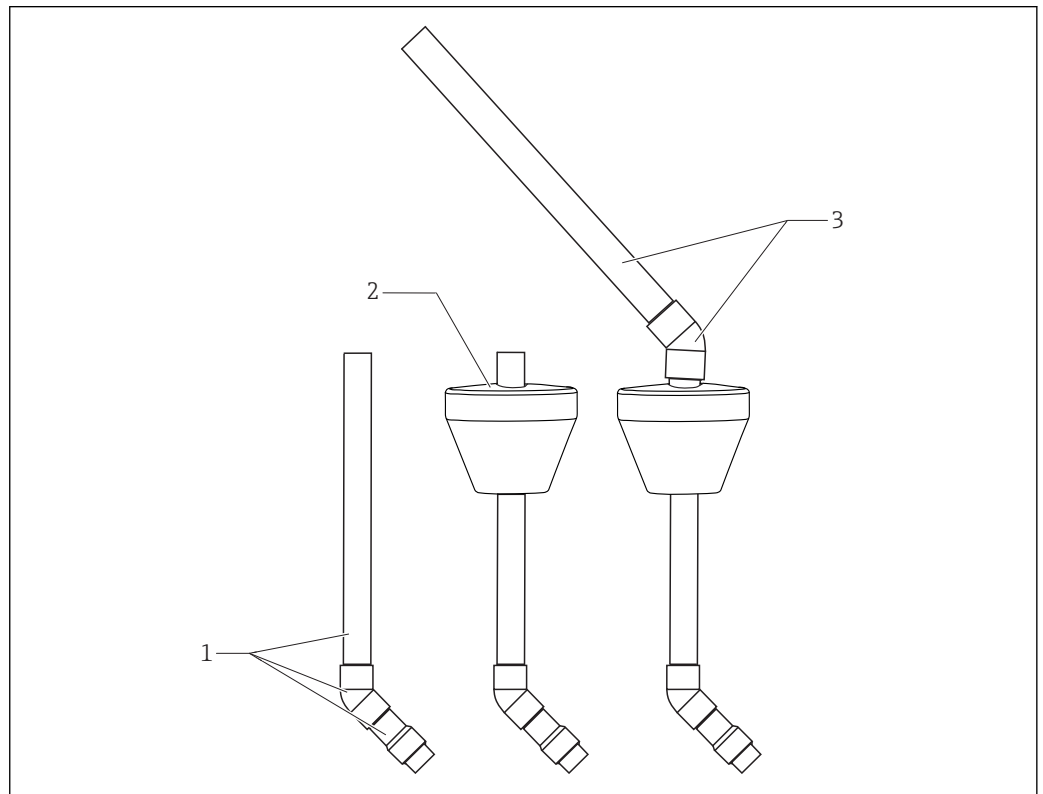
Installing the chain retainer:

1. Insert weights into the immersion tube (only for PVC immersion tubes).
2. Mount the multifunctional clamp ring on the immersion tube (with the funnel-shaped side pointing downwards →  .
3. Guide the bracket into the bottom chain link.

4. Hook the bracket into the multifunctional clamp ring.
5. Mount the sensor →  13.
6. Secure the chain on the holder with the triangular carabiner.
7. Determine the maximum immersion depth of the assembly.

 The assembly may not be flooded. Pay attention to the maximum immersion depth for this purpose.






5.2.7 Installing the assembly with a float



 10 Float mounting

- 1 Immersion tube with adhesive fitting and sensor adapter (ready-to-install ex works)
- 2 Float
- 3 Second immersion tube with 45° adhesive fitting

Preparation:

1. Fit the float (item 2) onto the immersion tube (item 1).
2. Glue the second immersion tube (item 3) and the adhesive fitting (item 3) onto the immersion tube (item 1) →  13.
3. Adjust the clamps on the cross clamp →  7,  15.
4. Slide the cross clamp over the immersion pipe →  5,  14.
 - ↳ Make sure that the closed side of the cross clamp faces upwards.

5. Above the cross clamp, mount the multifunctional clamp ring on the immersion tube (funnel-shaped side facing upwards).
 - ↳ The multifunctional clamp ring acts as an anti-slip lock.

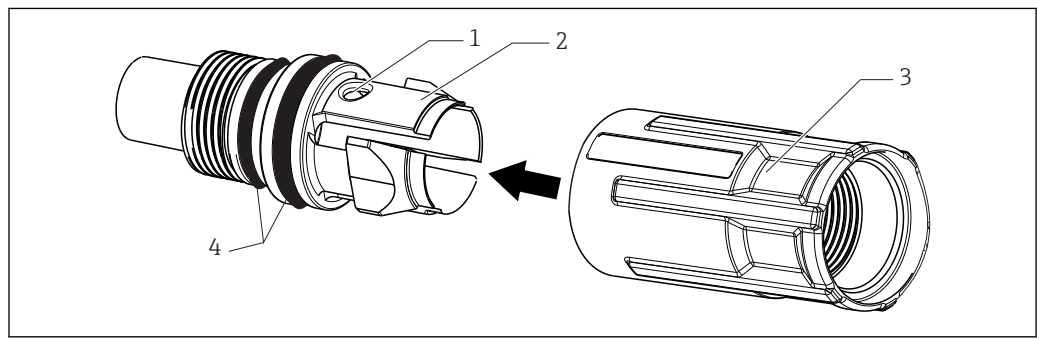
i Mounting the sensor → 13

i For detailed information on the CYH112 holder, see Operating Instructions BA00430C

Installing the assembly with a float:

1. Mount the sensor → 13.
2. Mount the float on the CYH112 pendulum holder.
3. Align the assembly and holder.
4. Tighten the clamp screws finger-tight (finger-tight corresponds to 13 Nm (9.6 lbf ft)).

5.2.8 Installing the quick fastener



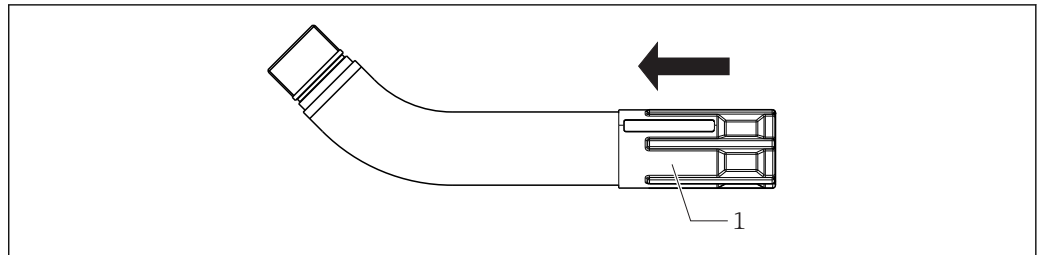
i 11 Quick fastener

- 1 Bore hole (makes it easier to screw the adapter on tightly)
- 2 Adapter
- 3 Union nut
- 4 O-rings

Installing the quick fastener:

1. Provide both O-rings (item 4) with a thin film of lubricant.
2. Screw the adapter (item 2) into the connection pipe of the immersion tube.
3. Insert a screwdriver or a similar tool (serves as lever) through the bores (item 1).
4. Tighten the adapter with the screwdriver.
5. Slide the union nut (item 3) over the adapter until the union nut engages with a click.
6. Route the sensor cable through the quick fastener and the immersion tube.
 - ↳ The Memosens coupling is secured in the quick fastener and cannot slip.
7. Connect the cable to the sensor.
8. Guide the sensor through the quick fastener (hold the sensor steady when doing so).
9. Using the quick fastener, install the sensor without twisting the measuring cable.
10. Turn the union nut to tighten the sensor.
11. Align the sensor if necessary.

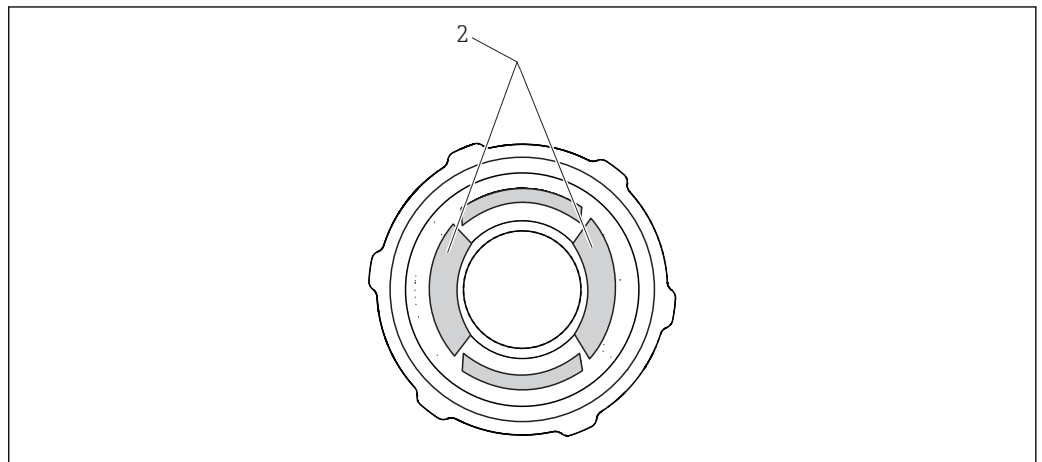
5.2.9 Disassembling the quick fastener



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12 Removing the quick fastener

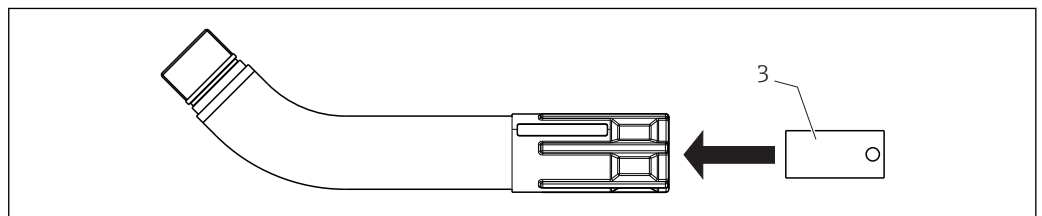
- 1 Quick fastener with union nut



A0016951

13 Removing the quick fastener

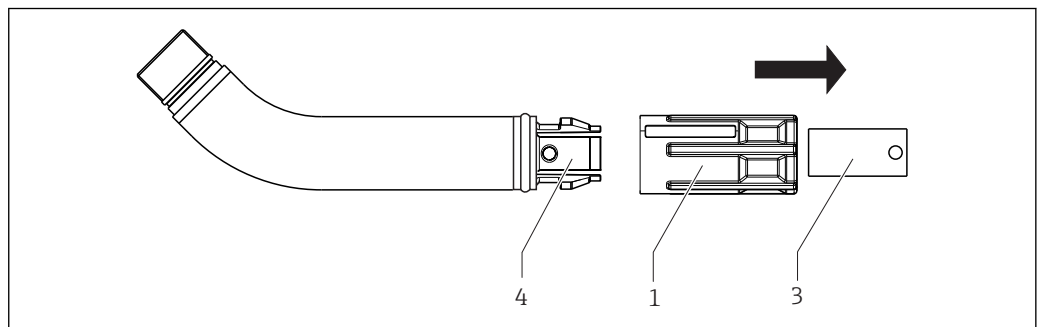
- 2 Connection clips



A0016952

14 Removing the quick fastener

- 3 Mounting tool









A0016953

15 Removing the quick fastener

- 1 Quick fastener - union nut
- 3 Mounting tool
- 4 Quick fastener - adapter

Removing the quick fastener:

1. Move the union nut in the direction of the arrow until the stop position
→  12,  19.
↳ This pushes the two connection clips towards the center.
2. Fit the mounting tool onto the connection clips →  14,  19.
3. Push the mounting tool in firmly.
↳ This releases the two connection clips from the fixture.
4. Remove the union nut and the mounting tool →  15,  19.
5. Unscrew the adapter from the immersion tube.

5.3 Post-installation check

- After mounting, check that all the screws are securely tightened.
- When fastening via the pendulum holder, check that the assembly can move freely.

6 Maintenance

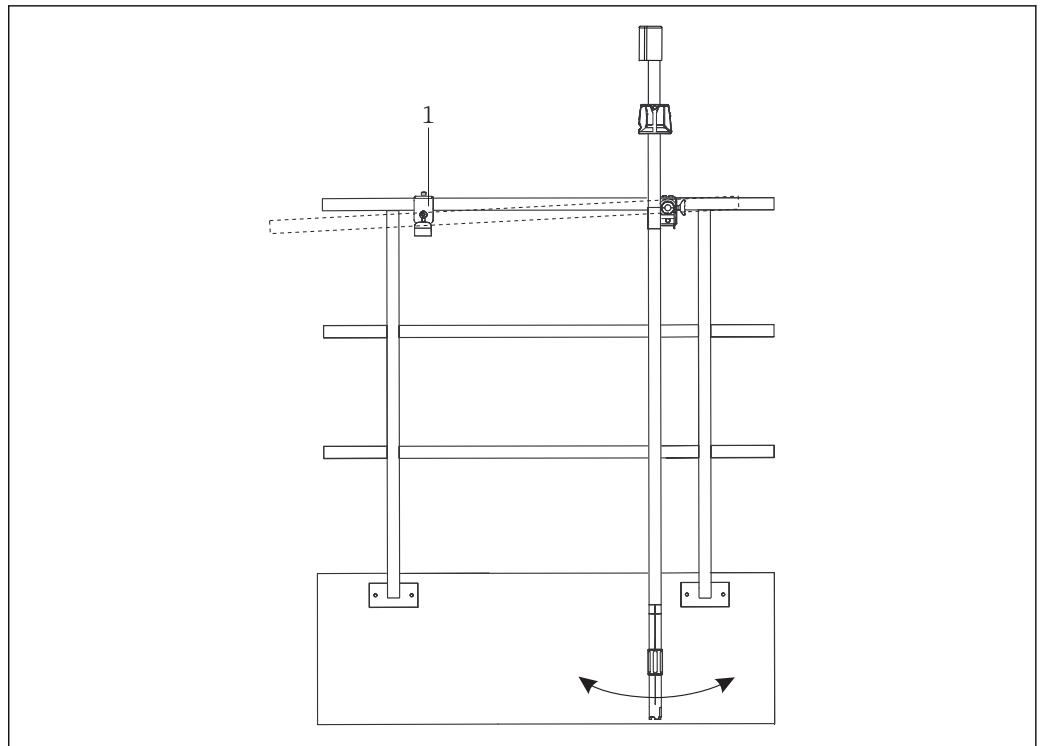
⚠ WARNING

Wastewater

There is a risk of infection when working with wastewater!

- ▶ Wear protective gloves, protective goggles and protective clothing.

6.1 Maintenance tasks



16 Immersion pipe tray for assembly maintenance position

1 Immersion pipe tray

The immersion pipe tray makes it easier to perform maintenance tasks with rail mounting involving a pendulum holder and cross clamp.

6.1.1 Cleaning the clamps and threads

Lubricate the clamps and threads at regular intervals.

1. Clean the clamps and threads with soapy water.
2. Dry the clamps and threads.
3. Apply a thin film of lubricant to the cleaned parts (e.g. Syntheso Glep1).

6.1.2 Cleaning the quick fastener

1. Remove the sensor and the cable.
2. Insert the removal tool → 24 into the union nut.
 - ↳ The union nut disengages and can be removed.
3. Clean the quick fastener with soapy water.

6.1.3 Checking the seals

- ▶ Check the seals on the sensor, quick fastener and assembly at regular intervals.

7 Repair

7.1 Return

The product must be returned if repairs or a factory calibration are required, or if the wrong product was ordered or delivered. As an ISO-certified company and also due to legal regulations, Endress+Hauser is obliged to follow certain procedures when handling any returned products that have been in contact with medium.

To ensure the swift, safe and professional return of the device:

- ▶ Refer to the website www.endress.com/support/return-material for information on the procedure and conditions for returning devices.

7.2 Disposal

- ▶ Please observe local regulations!

8 Accessories

The following are the most important accessories available at the time this documentation was issued.

- For accessories not listed here, please contact your Service or Sales Center.

Flexdip CYH112

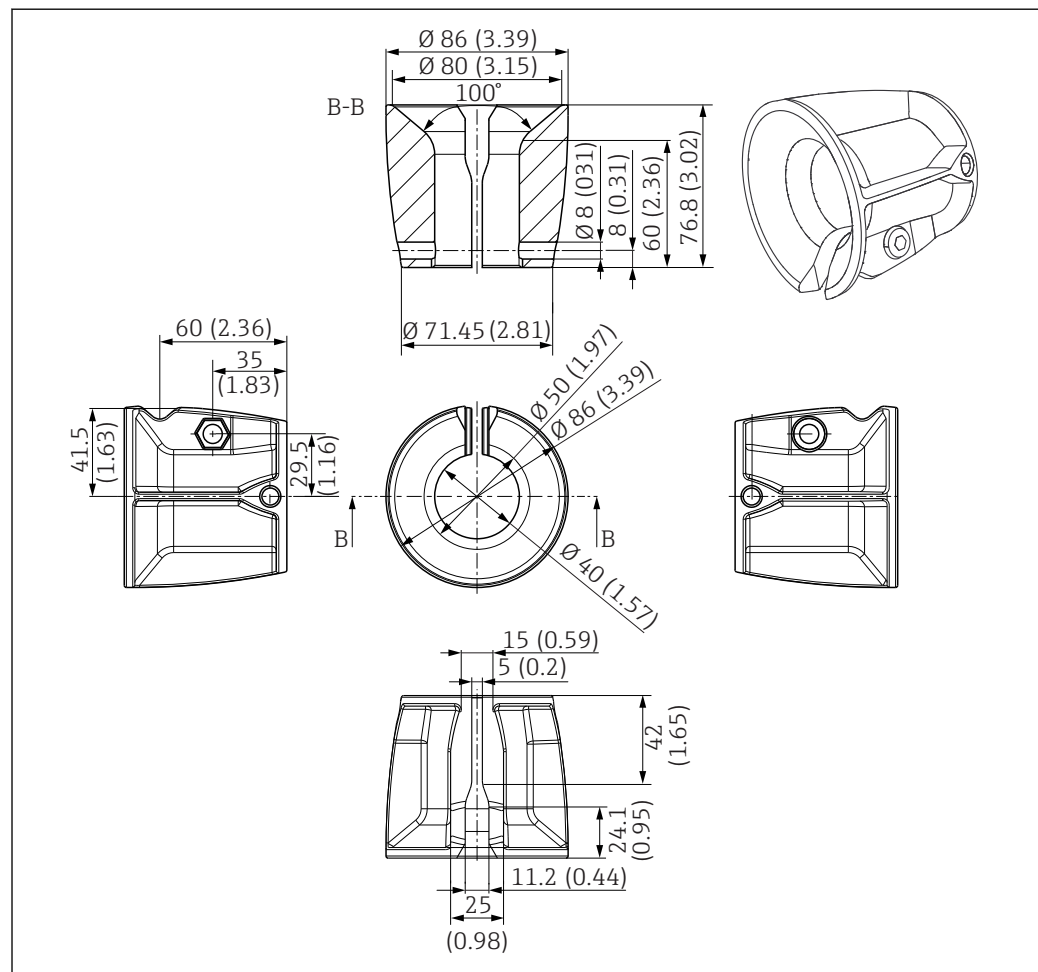
- Modular holder system for sensors and assemblies in open basins, channels and tanks
- For Flexdip CYA112 water and wastewater assemblies
- Can be affixed anywhere: on the ground, on the coping stone, on the wall or directly onto railings.
- Stainless steel version
- Product Configurator on the product page: www.endress.com/cyh112



Technical Information TI00430C

Multifunctional clamp ring

- In the case of a chain retainer, the rear multifunctional clamp ring keeps the chain fixed in place.
- In the case of the main pipe and transverse pipe, adjust the working height on the main pipe with the multifunctional clamp ring.
- The multifunctional clamp ring acts as an anti-slip lock on transverse pipes, main pipes and on assemblies.
- Material: PA 6
- Order number: 71092049

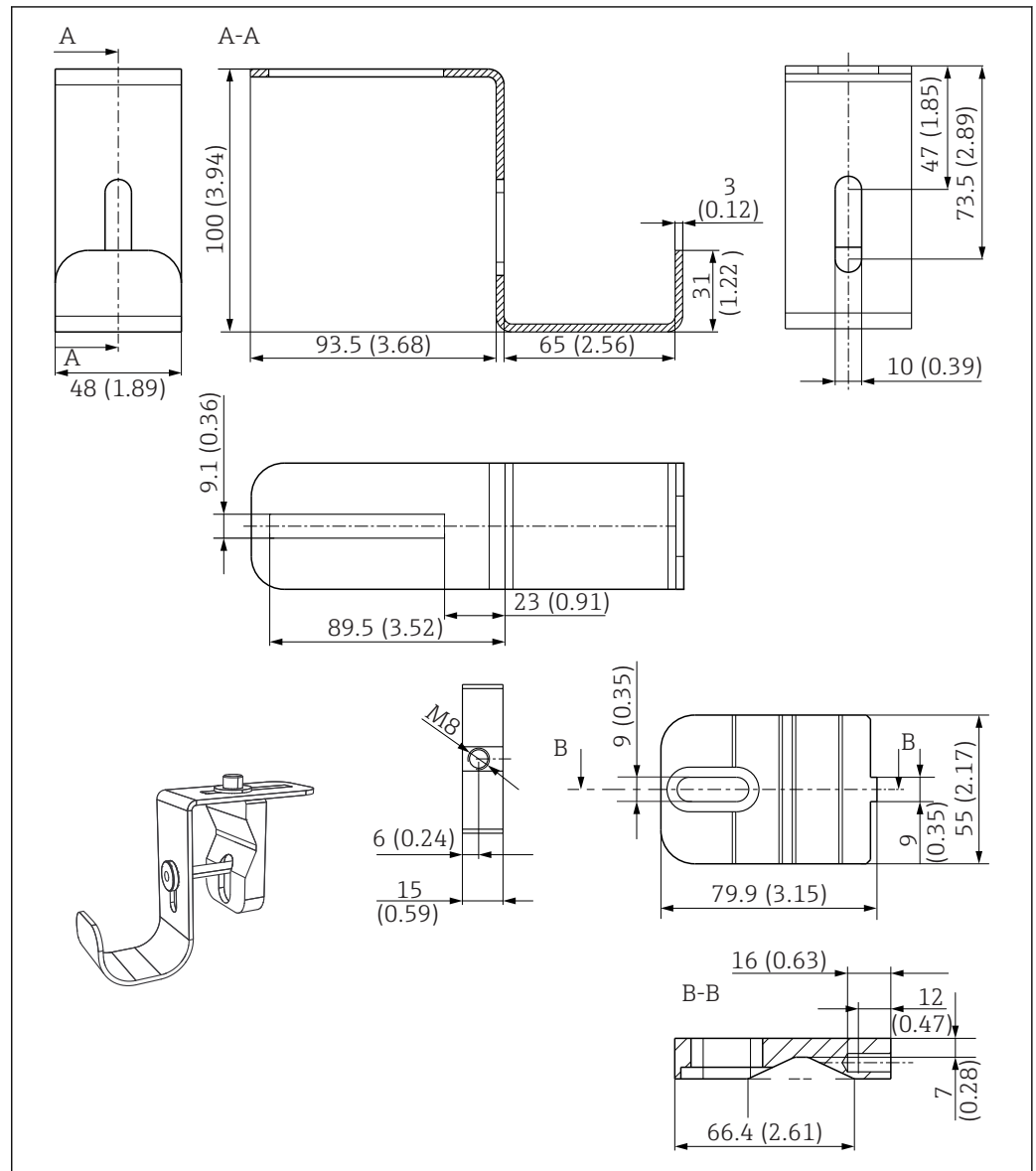


A0035699

17 Multifunctional clamp ring. Dimensions: mm (in)

Immersion pipe tray

- Is used to hold the immersion pipe during maintenance work
- Material: stainless steel 1.4404 (AISI 316L)
- Order number: 71092054

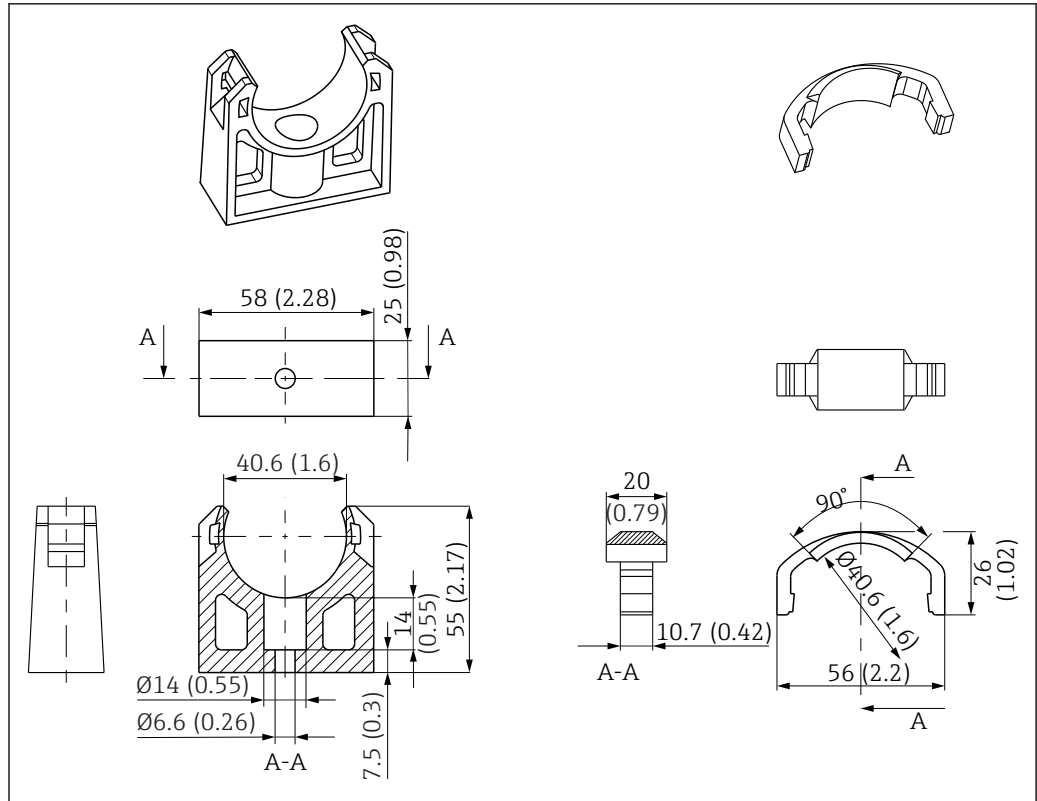


18 Immersion pipe tray. Dimensions: mm (in)

A0035703

Wall holder set

- 2 pipe clamps D 40
- Material: PE
- 1 worm drive hose clip for height adjustment
- Order number: 71132469

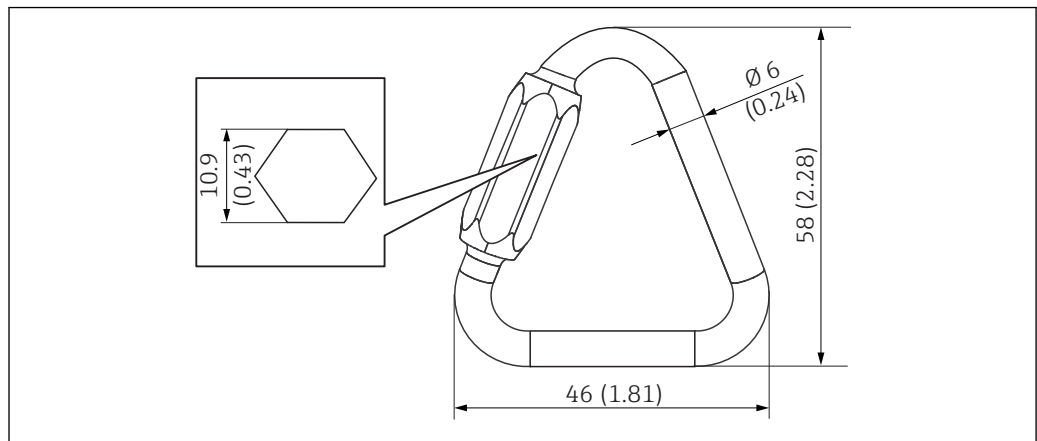


A0035704

19 Pipe clamp. Dimensions: mm (in)

Triangular carabiner

- Is used to secure the chain
- Material: stainless steel, quality V4A
- Order number: 71092052



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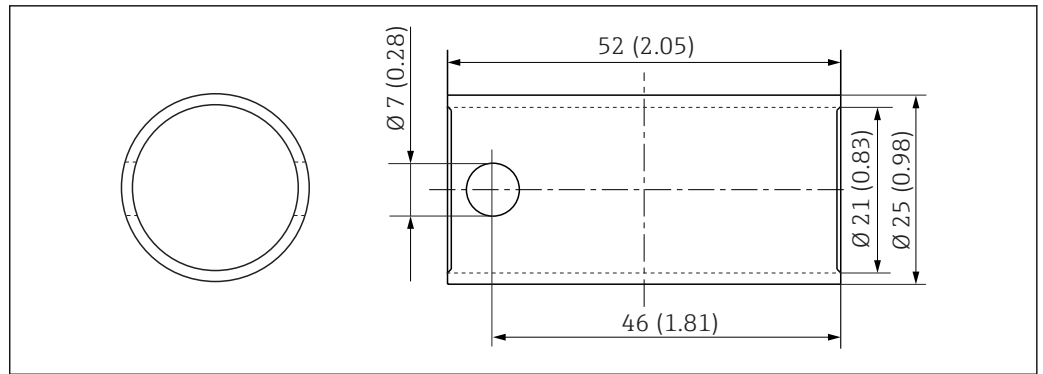
20 Triangular carabiner. Dimensions: mm (in)

Hook-and-loop cable ties (set of 4)

- Is used to secure the cables
- Material: PE/PA (polyethylene/polyamide)
- Order number: 71092051

Mounting tool

- Tool to remove the quick fastener
- Material: stainless steel V4A
- Order number: 71093438

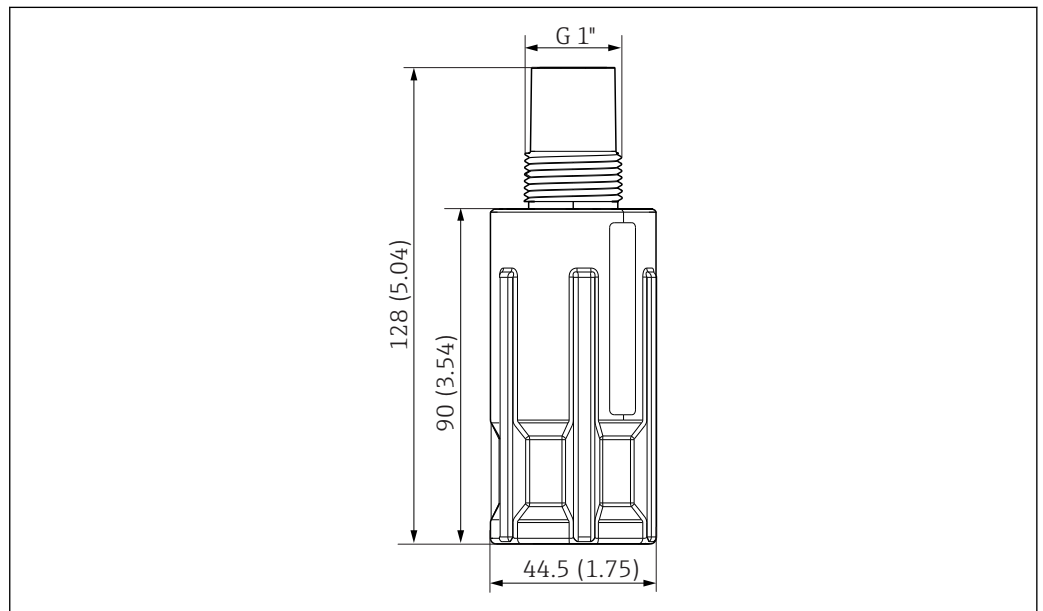


A0035706

21 Mounting tool. Dimensions: mm (in)

Quick fastener

- For quick and easy installation and replacement of sensors
- Material: POM - GF
- Including mounting tool 71093438
- Order number: 71093377

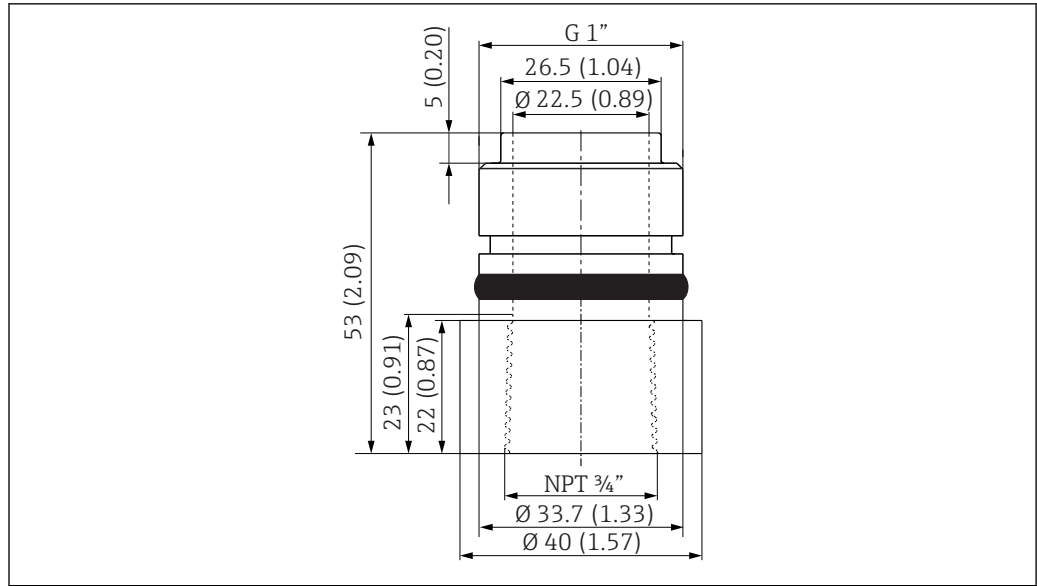


A0035707

22 Quick fastener. Dimensions: mm (in)

Sensor adapter NPT 3/4"

- Sensor adapter from G 1" to NPT 3/4"
- Material: POM - GF
- Order number: 71093382

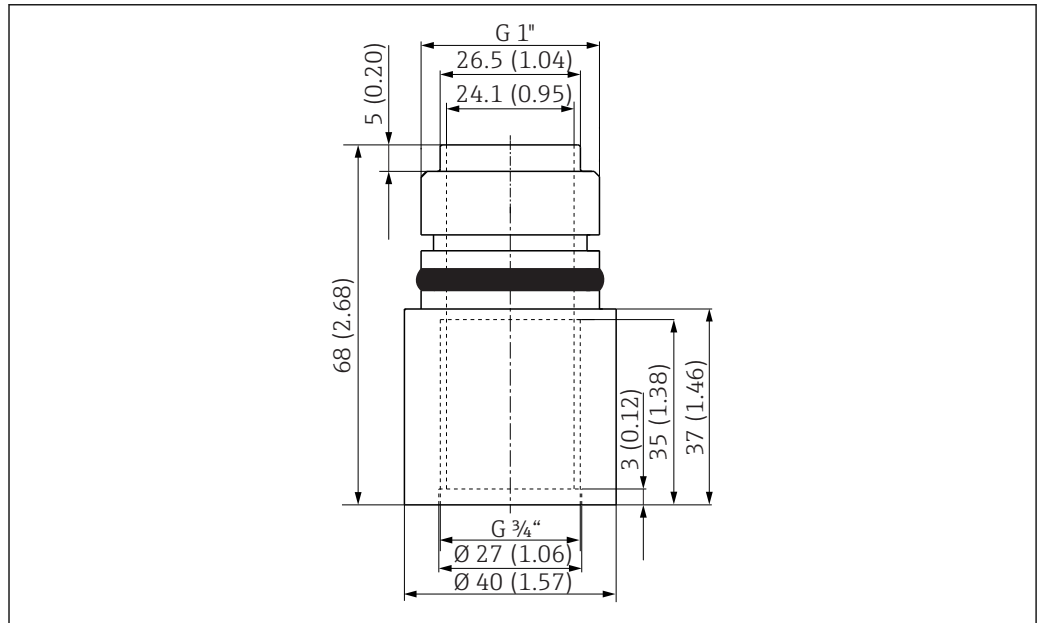


A0035732

23 Sensor adapter G 1" to NPT 3/4". Dimensions: mm (in)

Sensor adapter G 3/4"

- Sensor adapter from G 1" to G 3/4"
- Material: POM - GF
- Order number: 71093383

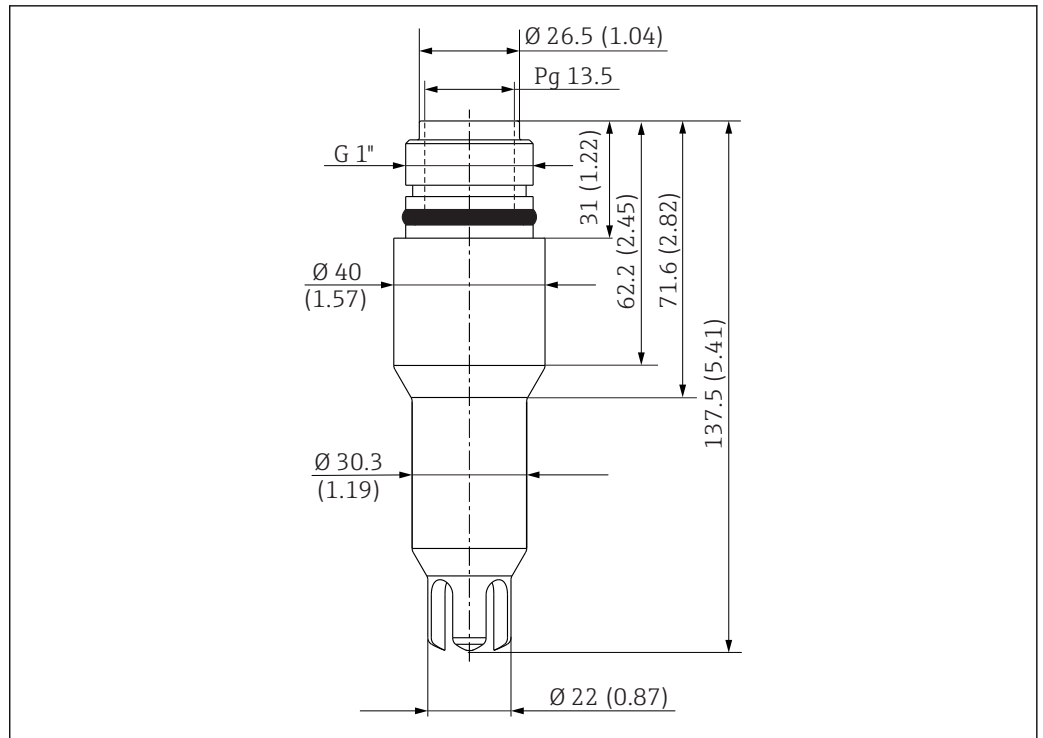


A0035733

24 Sensor adapter G 1" to G 3/4". Dimensions: mm (in)

Sensor adapter Pg 13.5

- Sensor adapter from G 1" to Pg 13.5
- Material: POM - GF
- Order number: 71093384

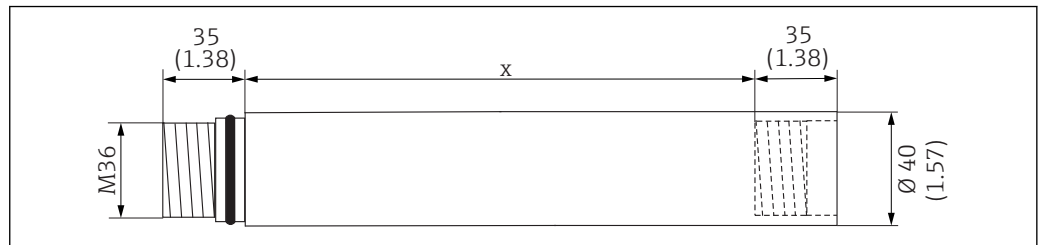


A0035736

25 Sensor adapter G 1" to Pg 13.5. Engineering unit: mm (in)

Immersion tube

- Connection thread: M36
- Material: stainless steel
- Length x = 600 mm (23.6 in) order number: 71073767
- Length x = 1 200 mm (47.3 in) order number: 71073706

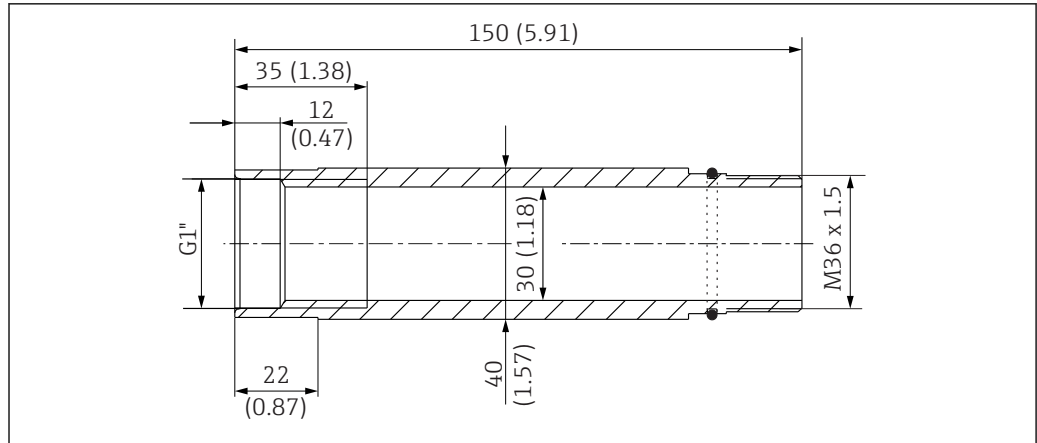


A0011042

26 Immersion tube. Dimensions: mm (in)

Straight connecting pipe for immersion tube

- M36 to G 1"
- Material: stainless steel
- Order number: 71073768

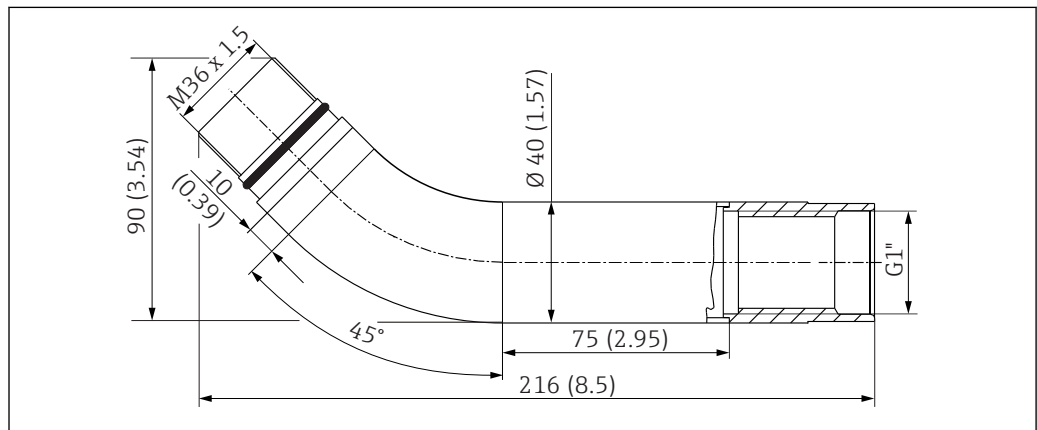


A0035737

27 Straight connecting pipe. Dimensions: mm (in)

45° connecting pipe for immersion tube

- M36 to G 1"
- Material: stainless steel
- Order number: 71073769

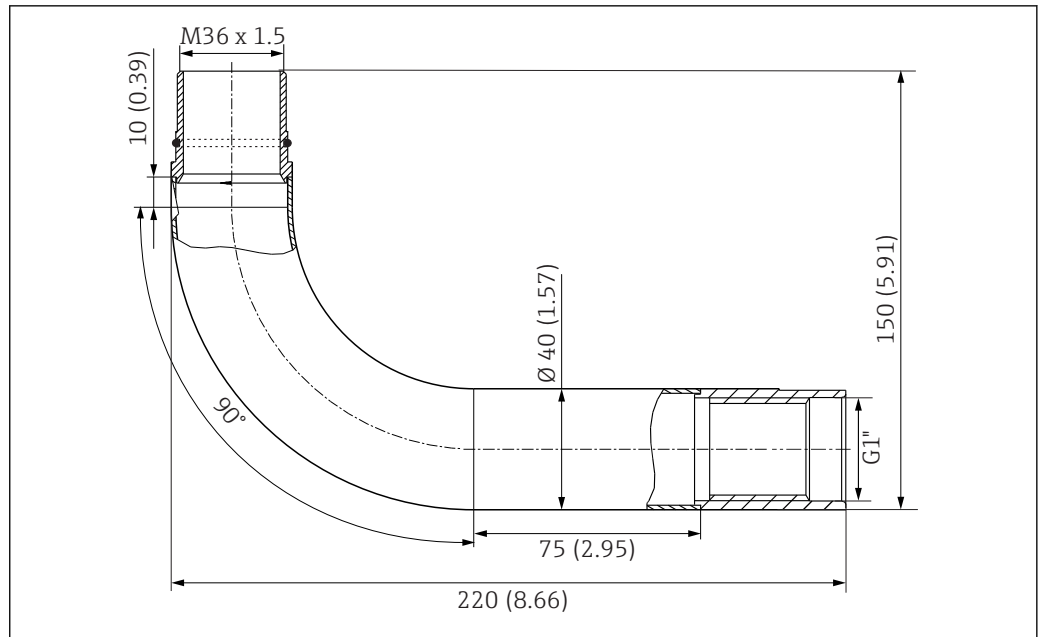


A0035738

28 45° connecting pipe. Dimensions: mm (in)

90° connecting pipe for immersion tube

- M36 to G 1"
- Material: stainless steel
- Order number: 71073770

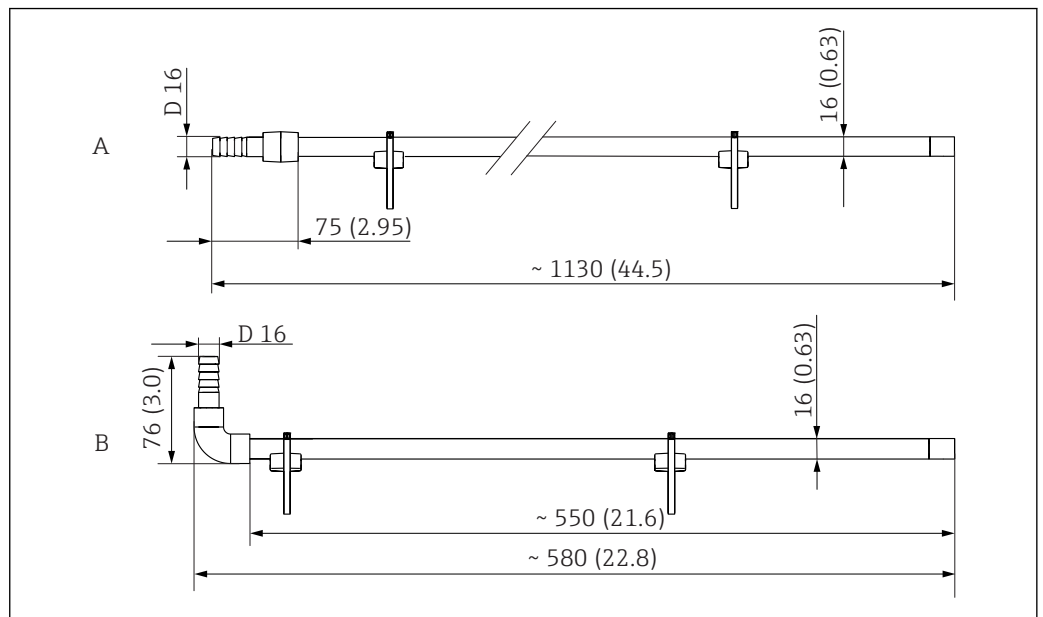


A0035739

29 90° connecting pipe. Dimensions: mm (in)

Spray cleaning for CYA112 for mounting on immersion tube

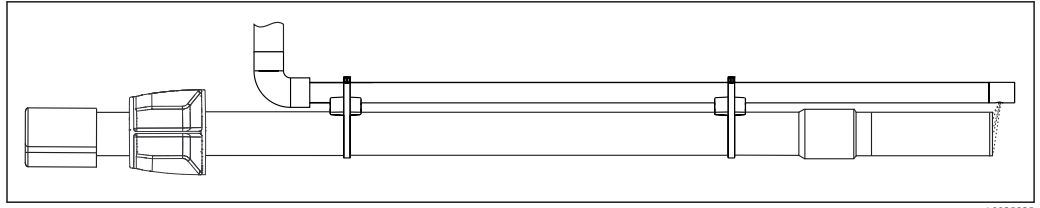
- Version in 600 mm (23.6) and 1 200 mm (47.2 in)
- For CYA112 assembly version: 600 to 2 400 mm, straight
- Material:
 - Pipe: PVC-U
 - Spacer: PA
 - Worm drive hose clips: stainless steel 1.4401 (AISI 316)
- Order number for 600 mm (23.6) version: 71158245
- Order number for 1 200 mm (47.2 in) version: 71158246



A0035742

30 Spray cleaning for CYA112. Dimensions: mm (in)

- A Version: 1 200 mm (47.4 in)
- B Version: 600 mm (23.6 in)



A0035835

31 Example of mounted spray cleaning

9 Technical data

9.1 Environment

Ambient temperature range -20 to 60 °C (-4 to 140 °F)

9.2 Process

Process temperature range 0 to 60 °C (32 to 140 °F)

Process pressure range Unpressurized installation

9.3 Mechanical construction

Design, dimensions	Immersion tube (PVC)	Ø 40 mm (1.6 in), lengths: 600 mm (23.6 in), 1 200 mm (47.2 in), 1 800 mm (70.9 in), 2 400 mm (94.5)
	Immersion tube (stainless steel)	Ø 40 mm (1.6 in), lengths: 600 mm (23.6 in), 1 200 mm (47.2 in), 1 800 mm (70.9 in), 2 400 mm (94.5), 3 600 mm (141.7 in)

Weight

- Immersion tube (PVC)
 - Length 600 mm (23.6 in): 0.3 kg (0.7 lb)
 - Length 1 200 mm (47.2 in): 0.6 kg (1.3 lb)
 - Length 1 800 mm (70.9 in): 0.95 kg (2.1 lb)
 - Length 2 400 mm (94.5): 1.3 kg (2.8 lb)
- Immersion tube (stainless steel)
 - Length 600 mm (23.6 in): 0.6 kg (1.3 lb)
 - Length 1 200 mm (47.2 in): 1.2 kg (2.6 lb)
 - Length 1 800 mm (70.9 in): 1.8 kg (4.0 lb)
 - Length 2 400 mm (94.5): 2.4 kg (5.3 lb)
 - Length 3 600 mm (141.7 in): 3.5 kg (7.7 lb)
- Multifunctional clamp ring: 0.15 kg (0.33 lb)
- Weight for PVC immersion tube: 0.32 kg (0.71 lb)

Materials	Immersion tube:	Stainless steel 1.4404 (AISI 316 L) or PVC
	Connecting pipe:	Stainless steel 1.4404 (AISI 316 L) or PVC
	Weld-on threads:	Stainless steel 1.4571 (AISI 316 Ti) or PVC
	Sensor adapter:	POM - GF
	Quick fastener:	POM - GF
	Multifunctional clamp ring:	PA 6
	Cap for pipe end:	PE
	Chain bracket:	Stainless steel 1.4571 (AISI 316 Ti) or 1.4404 (AISI 316 L)
	O-rings:	EPDM

Float, yellow:	EVA (until mid-2012 approximately)
Float, black:	EPP (from mid-2012 approximately)

Index

A

Accessories	24
Approvals	10

C

Certificates	10
------------------------	----

D

Designated use	5
Disposal	23

I

Incoming acceptance	8
Installation	11
Installation conditions	11
Installation instructions	12

M

Maintenance	21
Mounting conditions	11

N

Nameplate	8
---------------------	---

P

Post-installation check	20
Product identification	8

R

Repair	23
------------------	----

S

Safety instructions	5
Scope of delivery	9
Symbols	4

U

Use	5
---------------	---

W

Warnings	4
--------------------	---



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