

Installation Instructions

CYR51 mechanical cleaning

Spare parts kits



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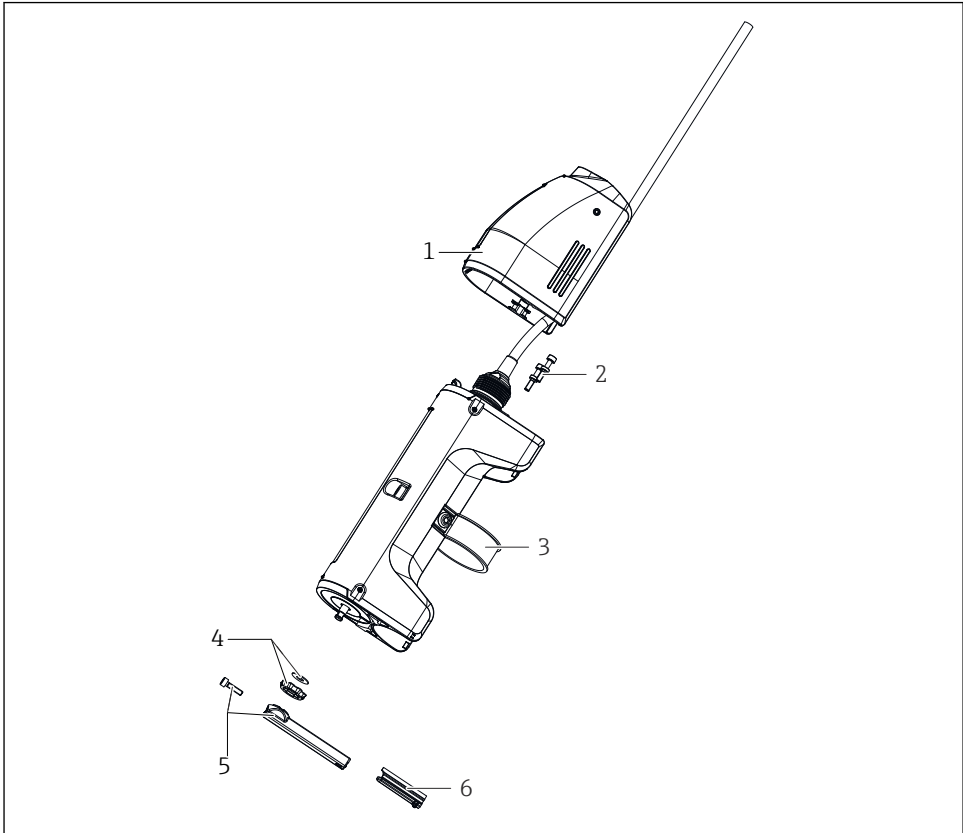
1 Overview

1.1 Spare parts kits

These installation instructions apply to the following spare parts kits:

Order number	Description	Page
XPC0031-x1+PA	Pipe extension for CUS5xx	→  6
XPC0031-x1+PB	Cable clamp	→  7
XPC0031-x1+PC	Hose clamp	→  7
XPC0031-x1+PE	Hose set for 7 m cable with hose clamp	→  8
XPC0031-x1+PF	Hose set for 15 m cable with hose clamp	→  8
XPC0031-x1+PJ	Tressing protection cap with screws	→  9
XPC0031-x1+PM	Clip for mechanical cleaning	→  10
XPC0031-x1+P2	Replacement brush	→  10
XPC0031-x1+P3	Replacement wiper blade	→  10
XPC0031-x1+P4	Replacement wiper blade, size S, opt. path length: 2 mm	→  11
XPC0031-x1+P5	Replacement wiper blade, size M, opt. path length: 8 mm	→  11
XPC0031-x1+P6	Replacement wiper blade, size L, opt. path length: 10 mm	→  12
XPC0031-x1+R1	Wiper arm and skimmer, size M, opt. path length: 2 mm; 10 mm	→  13
XPC0031-x1+R2	Wiper arm and skimmer, size S, opt. path length: 8 mm	→  13
XPC0031-x1+R3	Wiper arm 90° and skimmer	→  14
XPC0031-x1+R4	Wiper arm 45° and skimmer	→  15
XPC0031-x1+R5	Wiper arm and skimmer, size L, opt. path length: 40 mm	→  15
XPC0031-x1+R6	Wiper arm and skimmer, size XL, opt. path length: 50 mm	→  16

1.2 Overview of the components



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1 Overview of the components


- 1 Tressing protection
- 2 Collar screw
- 3 Sensor fixation
- 4 Skimmer and sliding washer
- 5 Wiper arm with mounting screw
- 6 Wiper blade/brush

2 Intended use

- The parts of the kits may only be used as maintenance parts for CYR51 mechanical cleaning. 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

- Observe the Operating Instructions for the device.
- Comply with national regulations governing mounting, electrical installation, commissioning, maintenance and repair procedures.
- For devices intended for use in hazardous areas, please observe the instructions in the Ex documentation (XA).

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. CYR51 mechanical cleaning does not have a switch for the power supply.
- ▶ All work must be carried out according to applicable safety standards.

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.

CAUTION

Health hazard 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 to health due to contact with chemicals!**

- ▶ When handling chemicals, note the warnings on the safety data sheets. Wear acid-proof protective gloves, a protective coat, and safety goggles.
- ▶ Note the nationally applicable workplace safety regulations for the work area when handling toxic or corrosive chemicals. If necessary, consult a physician and show the safety data sheet or the information on the chemical container.

NOTICE**Material damage due to solvents!**

- ▶ Do not use any halogen-containing organic solvents or acetone. These solvents could destroy plastic parts of the device.
- ▶ The Operating Instructions for the device must be observed before using solvents.

**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 XPC0031-x1+PA pipe extension for CUS5xx

The kit contains the following parts → 2, 6:

1 x	Adapter POM CYR51	1 x	Kit instructions
1 x	O-ring ID 28.17 W 3.53 OD 35.23 mm EPDM		



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2 Pipe extension for CUS5xx

5.2 XPC0031-x1+PB cable attachment

The kit contains the following parts →  3,  7:

5 x Cable fixation PBT CYR51

1 x Kit instructions



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 3 *Cable clamp*

5.3 XPC0031-x1+PC hose clamp

The kit contains the following parts →  4,  7:

5 x Hose fixation PPS CYR51



1 x Kit instructions



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 4 *Hose clamp*


5.4 XPC0031-x1+PE hose set for 7 m cable with hose clamp

The kit contains the following parts →  5,  8:

7 m	Hose	1 x	Hose connection 1.4404 CYR51
5 x	Fixation, hose PPS CYR51	1 x	Heat-shrink tubing 0.1 m (not in the figure)
1 x	2-ear clamp 11-13 mm 1.4307	1 x	Kit instructions



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 5 *Hose set for 7 m cable with hose clamp*

5.5 XPC0031-x1+PF hose set for 15 m cable with hose clamp

The kit contains the following parts →  6,  9:

15 m	Hose	1 x	Hose connection 1.4404 CYR51
5 x	Fixation, hose PPS CYR51	1 x	Heat-shrink tubing 0.1 m (not in the figure)
1 x	2-ear clamp 11-13 mm 1.4307	1 x	Kit instructions



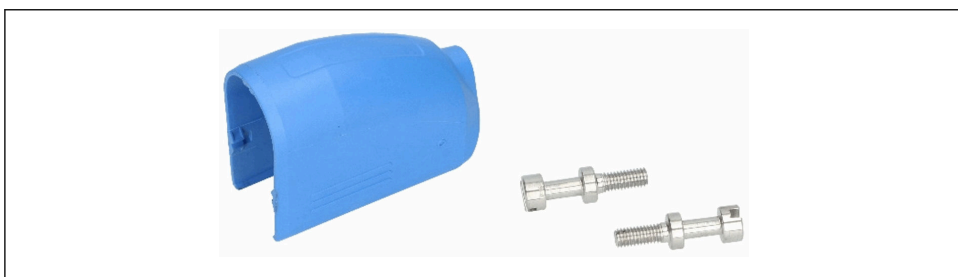
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6 *Hose set for 15 m cable with hose clamp*

5.6 XPC0031-x1+PJ tressing protection cap with screws

The kit contains the following parts → 7, 9:



- | | | | |
|-----|---------------------------------------|-----|------------------|
| 1 x | Housing, protective PPS CYR51 | 1 x | Kit instructions |
| 2 x | Screw, collar/slotted M3 1.4404 CYR51 | | |



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7 *Tressing protection cap with screws*


5.7 XPC0031 -x1+PM clamp for mechanical cleaning

The kit contains the following parts →  8,  10:


1 x	Fixation, sensor 1.4404 CYR51	1 x	Klüber UNISILKON L 2 g lubricating grease
1 x	Fixation, sensor, rubber coating EPDM CYR51	1 x	Kit instructions
2 x	Screw M5x8		



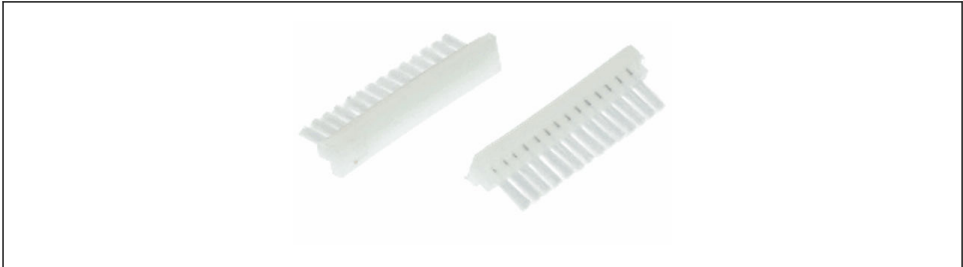
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 8 *Clip for mechanical cleaning*


5.8 XPC0031-x1+P2 replacement brush

The kit contains the following parts →  9,  10:

2 x	Brush, nylon CYR51	1 x	Kit instructions
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 9 *Replacement brush*


5.9 XPC0031-x1+P3 replacement wiper blade

The kit contains the following parts →  10,  11:

2 x	Wiper blade VMQ CYR51 standard	1 x	Kit instructions
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 10 Replacement wiper blade


5.10 XPC0031-x1+P4 replacement wiper blade, size S, opt. path length: 2 mm

The kit contains the following parts →  11,  11:

2 x	Wiper blade 1.4404/VMQ CYR51 CAS 2 mm	1 x	Klüber UNISILKON L 2 g lubricating grease
2 x	Oval-head screw M3x4	1 x	Kit instructions
2 x	Washer ID 3.2 OD 6.8 mm		



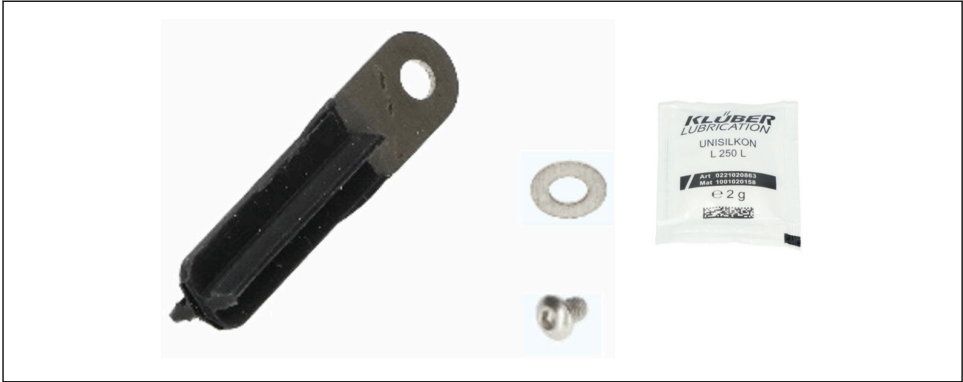
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 11 Replacement wiper blade, size S, opt. path length: 2 mm

5.11 XPC0031-x1+P5 replacement wiper blade, size M, opt. path length: 8 mm

The kit contains the following parts →  12,  12:

2 x	Wiper blade 1.4404/VMQ CYR51 CAS 8 mm	1 x	Klüber UNISILKON L 2 g lubricating grease
2 x	Oval-head screw M3x4	1 x	Kit instructions
2 x	Washer ID 3.2 OD 6.8 mm		



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☒ 12 Replacement wiper blade, size M, opt. path length: 8 mm

5.12 XPC0031-x1+P6 replacement wiper blade, size L, opt. path length: 10 mm

The kit contains the following parts → ☒ 13, ☒ 12:

2 x	Wiper blade 1.4404/VMQ CYR51 CAS 10 mm	1 x	Klüber UNISILKON L 2 g lubricating grease
2 x	Oval-head screw M3x4	1 x	Kit instructions
2 x	Washer ID 3.2 OD 6.8 mm		



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☒ 13 Replacement wiper blade, size L, opt. path length: 10 mm


5.13 XPC0031-x1+R1 wiper arm and skimmer, size M, opt. path length: 2 mm; 10 mm

The kit contains the following parts →  14,  13:

1 x	Wiper arm 1.4404 CYR51 CAS 2 mm, 10 mm	1 x	Oval-head screw, hexagonal, M3x4 ISO7380-1 A4
1 x	Skimmer VMQ CYR51	1 x	Washer ID 3.2 OD 6.8 mm DIN125 A4
1 x	Sliding washer ID 5.1 W 0.5 OD 12 mm PTFE	1 x	Klüber UNISILKON L 2 g lubricating grease
1 x	Hexagon head screw, M3x12 DIN912 A4	1 x	Kit instructions



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 14 *Wiper arm and skimmer, size M, opt. path length: 2 mm; 10 mm*

5.14 XPC0031-x1+R2 wiper arm and skimmer, size S, opt. path length: 8 mm

The kit contains the following parts →  15,  14:

1 x	Wiper arm 1.4404 CYR51 CAS 8 mm	1 x	Oval-head screw, hexagonal, M3x4 ISO7380-1 A4
1 x	Skimmer VMQ CYR51	1 x	Washer ID 3.2 OD 6.8 mm DIN125 A4
1 x	Sliding washer ID 5.1 W 0.5 OD 12 mm PTFE	1 x	Klüber UNISILKON L 2 g lubricating grease
1 x	Hexagon head screw, M3x12 DIN912 A4	1 x	Kit instructions



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15 Wiper arm and skimmer, size S, opt. path length: 8 mm

5.15 XPC0031-x1+R3 wiper arm 90° and skimmer

The kit contains the following parts → 16, 14:

- | | | | |
|-----|---|-----|---|
| 1 x | Wiper arm PPS CYR51 CUS51D | 1 x | Hexagon head screw, M3x12 DIN912 A4 |
| 1 x | Skimmer VMQ CYR51 | 1 x | Klüber UNISILKON L 2 g lubricating grease |
| 1 x | Sliding washer ID 5.1 W 0.5 OD 12 mm PTFE | 1 x | Kit instructions |



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16 Wiper arm 90° and skimmer


5.16 XPC0031-x1+R4 wiper arm 45° and skimmer

The kit contains the following parts →  17,  15:

1 x	Wiper arm PPS CYR51 CUS52D	1 x	Hexagon head screw, M3x12 DIN912 A4
1 x	Skimmer VMQ CYR51	1 x	Klüber UNISILKON L 2 g lubricating grease
1 x	Sliding washer ID 5.1 W 0.5 OD 12 mm PTFE	1 x	Kit instructions



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 17 *Wiper arm 45° and skimmer*

5.17 XPC0031-x1+R5 wiper arm and skimmer, size L, opt. path length: 40 mm

The kit contains the following parts →  18,  16:

1 x	Wiper arm POM CYR51 CAS 40 mm	2 x	Hexagon head screw, M3x12 DIN912 A4
1 x	Skimmer VMQ CYR51	1 x	Klüber UNISILKON L 2 g lubricating grease
1 x	Sliding washer ID 5.1 W 0.5 OD 12 mm PTFE	1 x	Kit instructions



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☒ 18 Wiper arm and skimmer, size L, opt. path length: 40 mm

5.18 XPC0031-x1+R6 wiper arm and skimmer, size XL, opt. path length: 50 mm

The kit contains the following parts → ☒ 19, 📄 16:

1 x	Wiper arm POM CYR51 CAS 50 mm	2 x	Hexagon head screw, M3x12 DIN912 A4
1 x	Skimmer VMQ CYR51	1 x	Klüber UNISILKON L 2 g lubricating grease
1 x	Sliding washer ID 5.1 W 0.5 OD 12 mm PTFE	1 x	Kit instructions



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☒ 19 Wiper arm and skimmer, size XL, opt. path length: 50 mm

6 Additional documentation

Detailed information on the devices shown here can be found in the Operating Instructions for each device and in the other documentation, available at:

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

7 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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