

# Manual or automatic retractable assembly Cleanfit CPA473

Assembly with ball valve for the chemical, paper, and wastewater industries



More information and current pricing:

[www.casc.endress.com/CPA473](http://www.casc.endress.com/CPA473)

## Benefits:

- Safe and reliable separation from the process by ball valve, even under harsh conditions
- No process interruption for electrode cleaning and calibration – saves maintenance time and costs
- Extended operating life of electrodes due to automatic cleaning
- Suitable for application in sticky and fibrous media thanks to integrated scraper and sleeve seals
- Flexible adaptation to all applications by great variety of materials and process connections

## Specs at a glance

- **Process temperature** PA pressure cylinder (manually only): Max. 80 °C (176 °F) Stainless steel pressure cylinder: up to 100°C (212 °F) with continuous operation up to 6 bar (87 psi)
- **Process pressure** PA pressure cylinder: Max. 6 bar (87 psi) Stainless steel pressure cylinder: Max. 10 bar (145 psi) Pneumatic outlet safety seal: 6 bar at 100 °C (87 psi at 212 °F)

**Field of application:** The Cleanfit CPA473 retractable assembly is designed for application in fibrous or sticky media. Its patented sleeve seals and integrated scrapers make sure that nothing sticks to the sensor. Cleanfit offers highest operating comfort: You can replace sensors and even service the assembly while the process is running. The optional electric or pneumatic control system enables automated cleaning and calibration even in difficult processes.

## Features and specifications

pH

**Measuring principle**

Potentiometric

**Application**

Chemical industry, paper industry, wastewater, industrial water, power plants, refuse incinerators, sugar industry

**Installation**

Retractable assembly with ball valve

**Characteristic**

Open and closed tank, piping (min DN80)

**Design**

Manual or pneumatical

Manual or pneumatical ball valve

Can be fully automated with CPC30 / 300

Integrated rinse chamber with connection G 1/4" or NPT 1/4"

**Material**

Seals: EPDM / FPM / perfluoroelastomer

Electrode holder: stainless steel 1.4404

Ball valve: Stainless steel 1.4401, PTFE

Inlet safety seal: PVDF, PTFE, Viton®

Outlet safety seal: PVDF, Stainless steel 1.4404

Rinse connection socket: Stainless steel 1.4404

**Dimension**

Immersion depth: 61 to 235mm

(2.4 inch to 9.25 inch)

**Process temperature**

PA pressure cylinder (manually only):

Max. 80 °C (176 °F)

Stainless steel pressure cylinder: up to 100°C (212 °F) with continuous operation up to 6 bar (87 psi)

## pH

**Process pressure**

PA pressure cylinder: Max. 6 bar (87 psi)

Stainless steel pressure cylinder: Max. 10 bar (145 psi)

Pneumatic outlet safety seal:

6 bar at 100 °C (87 psi at 212 °F)

**Connection**

G1¼ internal thread, DN50, DN65, ANSI 2"

**Additional certifications**

3.1. acc. to EN 10204

## ORP / Redox

**Measuring principle**

Sensor ORP / Redox

**Application**

Chemical industry, paper industry, wastewater, industrial water, power plants, refuse incinerators, sugar industry

**Installation**

Retractable holder with ball valve

**Characteristic**

Open and closed tank, piping (min DN80)

**Design**

Manual or pneumatical

Manual or pneumatical ball valve

Can be fully automated with CPC30 / 300

Integrated rinse chamber with connection G 1/4" or NPT 1/4"

## ORP / Redox

**Material**

Seals: EPDM / FPM / perfluoroelastomer  
Electrode holder: stainless steel 1.4404  
Ball valve: Stainless steel 1.4401, PTFE  
Inlet safety seal: PVDF, PTFE, Viton®  
Outlet safety seal: PVDF, Stainless steel 1.4404  
Rinse connection socket: Stainless steel 1.4404

**Dimension**

Immersion depth: 61 to 235mm  
(2.4 inch to 9.25 inch)

**Process temperature**

PA pressure cylinder (manually only):  
Max. 80 °C (176 °F)  
Stainless steel pressure cylinder:  
up to 100°C (212 °F) with continuous operation up to 6 bar (87 psi)

**Process pressure**

PA pressure cylinder: Max. 6 bar (87 psi)  
Stainless steel pressure cylinder: Max. 10 bar (145 psi)  
Pneumatic outlet safety seal:  
6 bar at 100 °C (87 psi at 212 °F)

**Connection**

G1¼ internal thread, DN50, DN65, ANSI 2"

**Additional certifications**

3.1.B EN 10204

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