Retractable Assembly for Turbidity Measurement ProbFit CUA 461

Retractable assembly for the CUS 1 and CUS 4 sensors









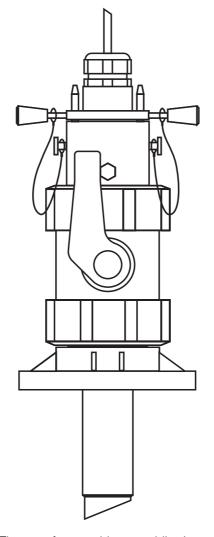












The use of retractable assemblies is very advantageous for turbidity and solids concentration measurement in pipelines and tanks. These assemblies permit sensor checking and cleaning without interrupting the process, thereby guaranteeing safe and credible measurement

Areas of application

- Sludge extraction and recirculation in sewage treatment plant
- Sludge centrifuge monitoring
- Filter monitoring and reversible flow filter
- Monitoring of phase separation processes
- Monitoring of cooling water

Benefi ts at a glance

The process assembly CUA 461 permits installation and replacement of a CUS 1 or CUS 4 turbidity sensor under process conditions and during ongoing operation.

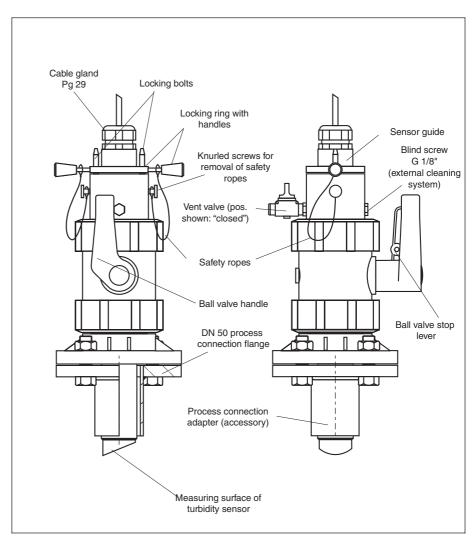
Safe isolation from the process is assured by the following assembly features:

- Ball valve with lockable handle
- Sensor holding tube is fixed in position by locking washer and locking bolt to provide accurate sensor guidance
- Welding socket (option)
- Sensor can be cleaned while installed as a rinse connector for an external cleaning system is available
- Optional feeding of sealing water via rinse connector during withdrawal of sensor possible



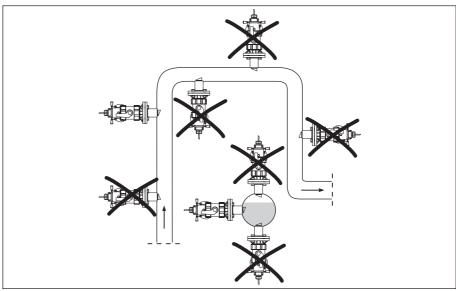


Design



Design of assembly ProbFit CUA 461

Installation



Recommended mounting position for ProbFit CUA 461

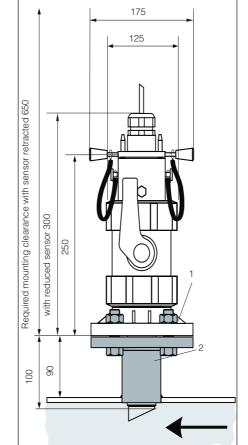
Installation and application notesThe CUA 461 assembly with the built-in turbidity sensor should preferably be installed in places with uniform flow conditions. The minimum pipe diameter should be DN 80. Optimal installation conditions can be obtained by using the process connection adapter.

Caution:

Do not install the assembly in places where air may collect, where foam bubbles are likely to form or where suspended solids may settle.

Inaccurate measurement may result if the sensor is not completely immersed in the medium or if the measuring optics are covered up by deposits.

Dimensions



	DN 50 (mm)	ANSI 2" (mm)
ØD	165	165
Øk	125	121
\emptyset d_2	18	19
b	18	18

☐ Adapter for process connection:

Welded fitting for pipe diameters of more than 80 mm, with DN 50 / 2"

ANSI combination flange, flange seal

4 M16x60 screws, 4 M16 nuts and 4 M16 washers out of stainless steel 1.4571, PVC or PP.

Accessories

Figure left: Dimensions ProbFit CUA 461

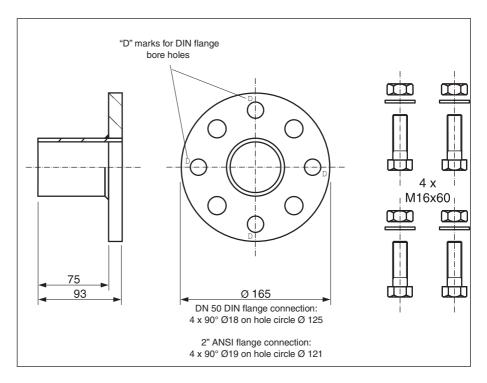
2" ANSI 2 Process connection

Figure right: Flange dimensions CUA 461

1 Process connection DIN flange DN 50 or

adapter (accessory)

Process connection	Version	Order number
adapter DN 50 / 2" ANSI	stainess steel 1.4571	50080249
	Polyvinyl chloride PVC	50080250
	Polypropylene PP	50080251

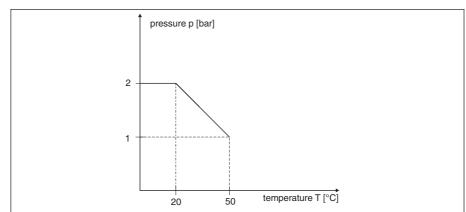


Process connection adapter for diameter larger than 80 mm

Technical data

Materials in contact with medium
Locking ring, bolts stainless steel
Safety ropes stainless steel 1.4301, tensile strength 200 kp
Process connection DIN flange DN 50 / ANSI flange 2"
Process pressure max. 2 bar at 20 °C or max. 1 bar at 50 °C
Temperature
Rins ports
Dimensions:
Sensor moved out of process installation height: 300 mm
Sensor withdrawn required clearence above flange: 650 mm
Immersion depth
Weight
Sensor mounting
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Subject to modifications.



Temperature/pressure specification

How to order

