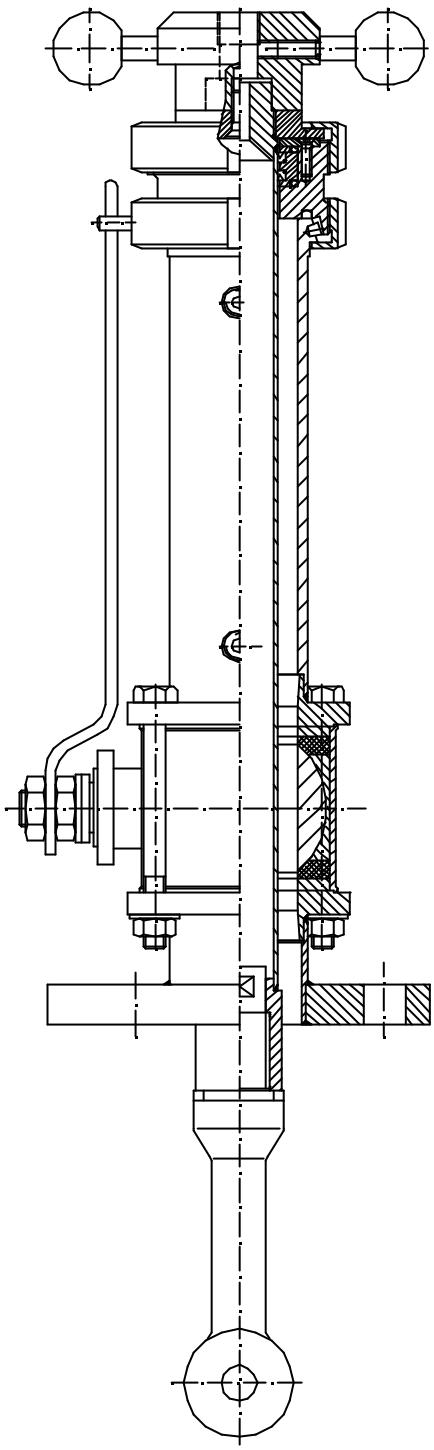
Technical information

TI052C/16/en/11.03

TSP model C-LA020326-01
Retractable assembly for CLS50
Conductivity measurement

Sturdy retractable assembly for the installation of conductivity sensors in tanks and pipes



With this retractable assembly it is possible to extract the sensor by hand for simple maintenance or calibration, cutting off the process with pressures up to 3 bar (note 1).

Main applications

- Paper mills, the chemical industry, industrial waste water purification
- Process tanks and trays
- Pipes or piping

Advantages

- Very sturdy industrial type assembly
- Sensor cleaning and calibration without interrupting the process
- Longer service
- Outstanding separation from the process by means of a ball valve thereby limiting dead spaces
- Easy dismantling and installation of the sensor without stopping the process

Note I: The instrument is ideal for working with a pressure of up to six bars. It is difficult to manually insert the sensor in the processes with pressures above 3 bar while the process is underway.

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Applications

Applications

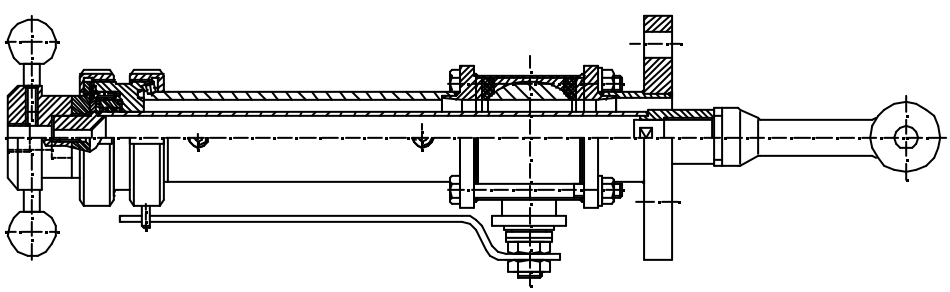
Fields of application The C-LA0203026-01 model insertion assembly has been specifically designed for conductivity measurement in the chemical and papermaking industry and for wastewater treatment plants in the industrial field. Without needing to stop the process, the sensor can be:

- separated manually from the process and moved into a rinsing chamber thanks to a ball valve;
- cleaned with water or detergent;
- kept moist while there is a break in operations;
- dismantled;
- sterilised, or
- calibrated.

The replaceable measurement insert in a case that is pressure resistant guarantees easy calibration and replacement of the sensor as well as avoiding losses should the sensor break.

Functions and performance

Operation

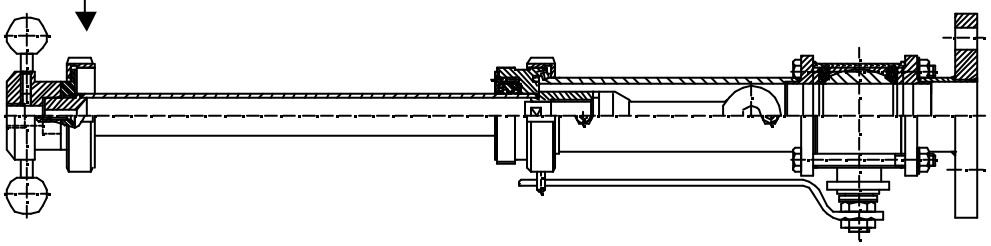


The manual retractable sensor holder for the measurement of inductive conductivity is fitted with a ball valve for separation from the process with 2" threading. Connection to the process by means of a flange of DN50/PN10 material in 1.4571.

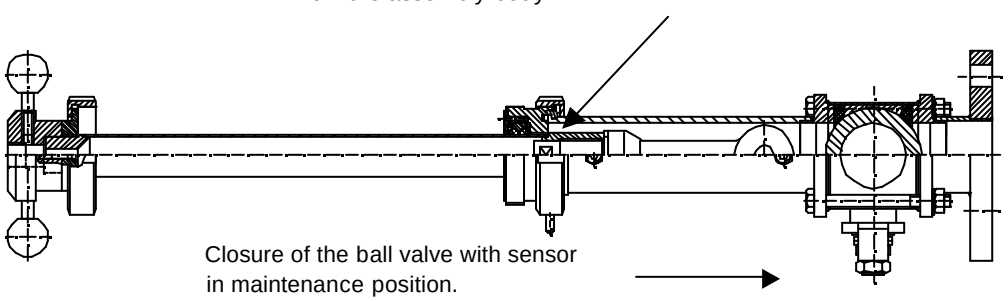
Immersion depth from beneath the flange 180 mm.

Undo the upper ring nut and
pull the guide tube to the stop.

Maintenance position

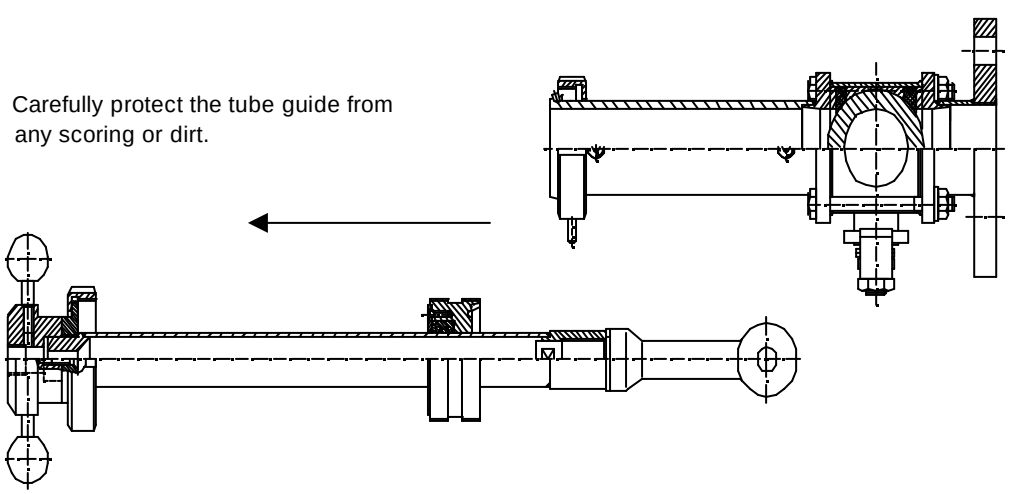


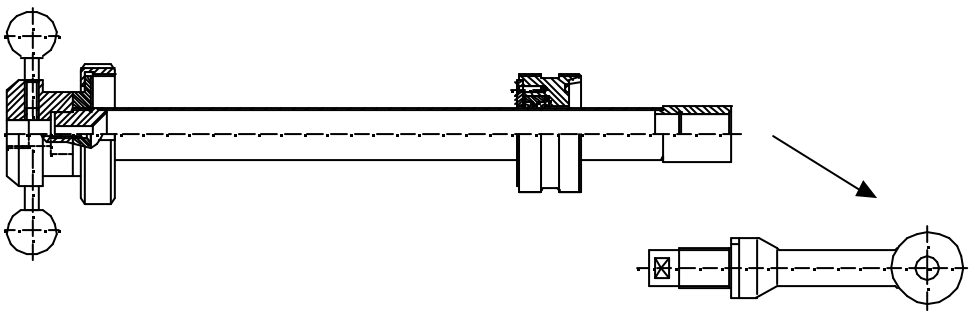
After closing the ball valve (with a second optional gate)
undo the second ring nut and extract the guide tube
from the assembly body.



Closure of the ball valve with sensor
in maintenance position.

Carefully protect the tube guide from
any scoring or dirt.

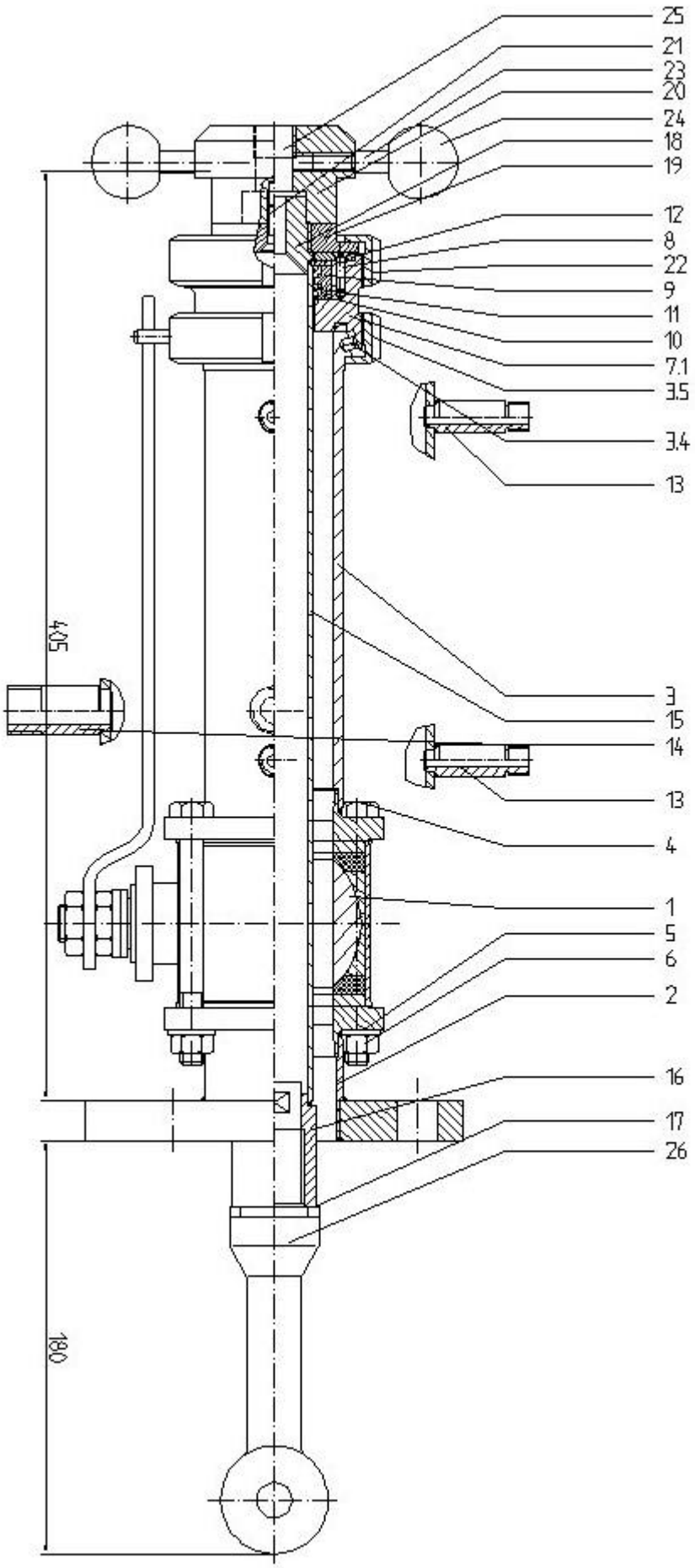




To extract the CLS50 sensor, loosen the cable clamp PG11 and then undo the sensor from its support. At this point pull out the cable being careful not to tear it.
The main causes of loss of insulation on the cable are due mainly to abrasions of the measurement cable's external sheath.

Design

Design, dimensions



Description of the exploded assembly drawing

DRAWING NO.	NO. OF PIECES	NAME	DIN	NOTES
1	1	Ball valve DN 50		1.4571
2	1	Ball valve support		1.4571
2.1	1	Ball valve connection terminal		A-4
2.2	1	Central part of body		1.4571
2.3	1	Flange DN50		1.4571
3	1	Washing chamber support		1.4571
3.1	1	Ball valve connection terminal		A-4
3.2	1	Support		1.4571
3.4	1	Guide grub screw DN 5x5	7	
3.5	1	Covering cap Rd78x1/6	11851	50010272
4	4	Hex. Bolt M8x110	931	
5	4	Washer DN8	125	
6	4	Hex. Nut M8	934	
7.1	1	Threaded joint		1.4571
7.2	1	Grommet DN 50 V113	11851	
8	3	Counter sunk screw M4x16	7991	
9	1	Grommet DN 34		PVDF
10	2	O-ring 44x3 FPM		51507782
2.3	1	Gate 2 ½" ANSI		
11	2			
11.1	2	O-ring 34x4		
12	1	Covering bar		1.4571
13	2	Washing input L=70		1.4571
14	1	Washing output L=70		1.4571
15	1	Guide tube DB 34x2 L=367		1.4571
16	1	Terminal		1.4571
17	1	Sensor gasket		
18	1	Nipple		1.4571
19	1	Reinforcement flange		1.4571
20	1	Ring nut Rd78x1/6		Polyamide G6
21	3	Hex bolt M6x20	7991	
22	1	Ring nut Rd78x1/6	11851	50010272
23	2	Threaded bar		1.4571
24	2	Ball head C32-FS	319	50013919
25	1	Screw type cable clamp PG11		50013474
26	1	Sensor CLS 50		

The table is also valid for the TSP C-LA011127-01. Take the descriptions regarding the drawing on the previous page into account.

Additional Documentation

Additional documentation

- ☐ TI Indumax P CLS50 TI182C/16/it
- ☐ Liquisys M CLM223/253 TI193C/07/it
- ☐ Mycom S CLM153 TI 234C/07/en
- ☐ Mypro CLM431 TI195C/07/en

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