Instruction manual

SZ 3384.1

E. CONDUCTIVITY CELL + Pt100

Cod. 2801933841 Rev. A

1 GENERAL INFORMATION

This E.C. cell has been designed for in-line or immersion applications.

For immersion application the sensor must be installed into the B&C Electronics holder SZ 8xx (except SZ 862 and SZ 882).

For in-line application the sensor must be installed into the B&C Electronics holder SZ 7101, SZ 7105, or SZ 7108.

Flat graphite electrodes are placed into the epoxy body, together with the temperature sensor.

2 SPECIFICATIONS

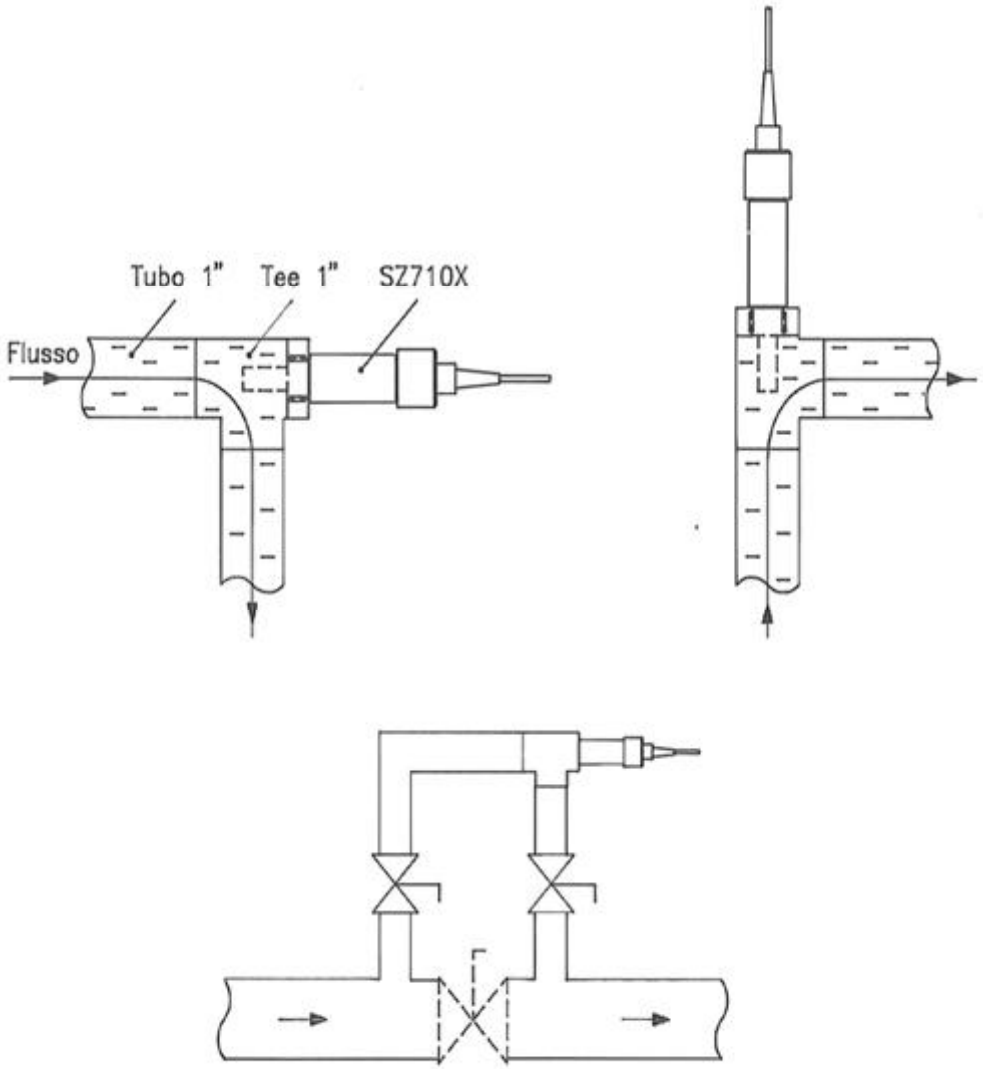
Electrodes	graphite, window
Cell constant	K = 1 ± 0,20
Body	epoxy
Temperature sensor	Pt 100 (3 wires)
Operating temperature	-5 / +80 °C
Pressure	10 bar max at 20 °C
Length	110 mm
Diameter	12 mm
Cable length	5 m
Cable type	SZ 927.1

3 CONNECTIONS

Wire color	**Internal connection**	**C 6587**	**C 7685**	**C 7687 C 7635 C 7335**	**C 3436**	**C 3630**
Transparent	CI (central electrode)	20	22	25	11	13
Shield	0	16	(21)	29	15	6
Brown and red	CO (outside electrode)	22	20	23	10	10
Orange	Pt100	18	23	27	13	4
Yellow	Pt100 common	17	24	28	14	5
Green	Pt100 common	16	25	29	15	6

4 INSTALLATION DRAWINGS

Example of in-line installation



Warning:

1. Install the sensor in the electrode holder SZ 710x.
2. Install the electrode holder as shown in the drawing.
3. The sample in contact with the cell must be representative of the solution to be measured.
4. The liquid must not contain air bubbles, must circulate continuously and fill the tube around the cell.
5. The flow velocity must be such as to avoid cavitation.
6. Sediment deposits or foreign material must not accumulate near the probe.
7. Verify that the limitations of temperature and pressure of the cell are observed.

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