

Instruction manual

SZ 3273.4

E. CONDUCTIVITY CELL + NTC 10K



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/Nieuwkoop holder SZ 8xx (except SZ 862 and SZ 882).

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

When the cell is installed in flow, the shape and position of the electrodes provide for a self-cleaning effect by means of the liquid velocity.

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

2 SPECIFICATIONS

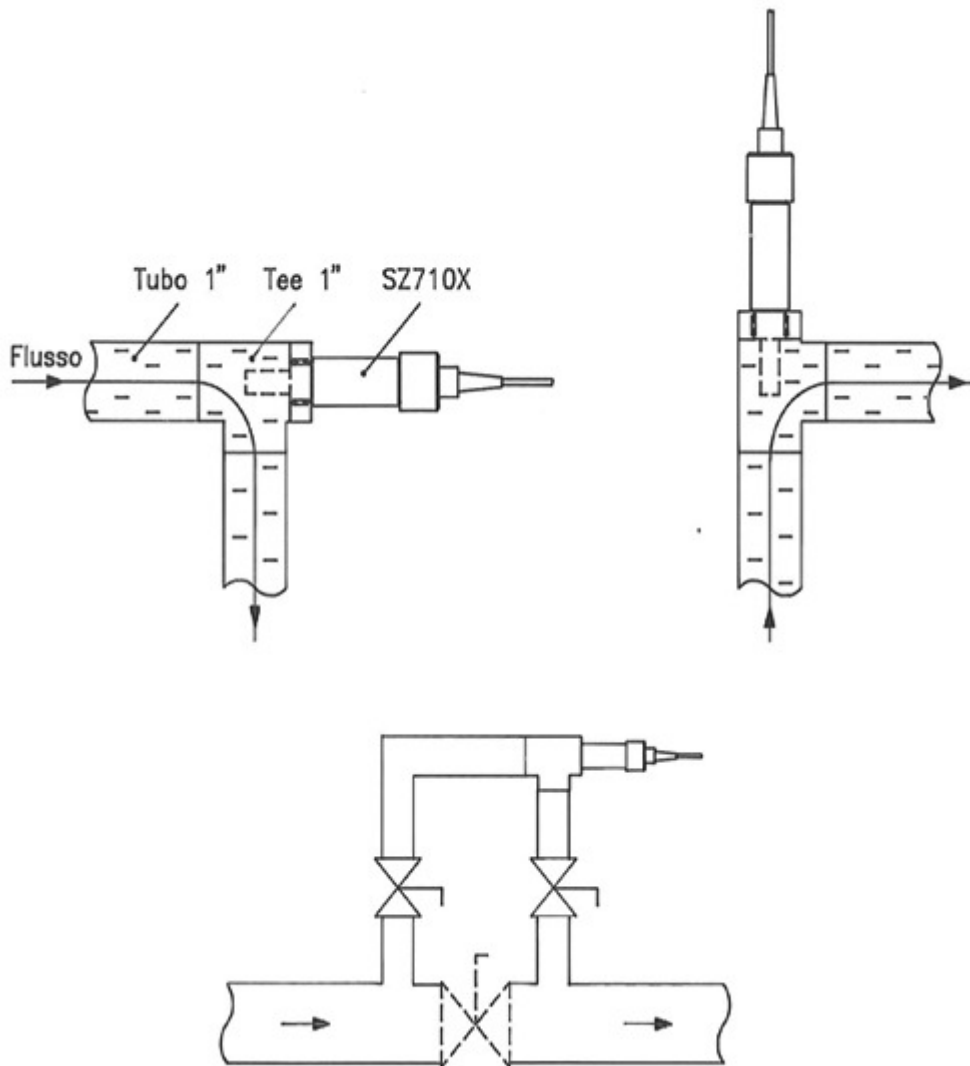
Electrodes	graphite
Cell constant	$K = 1 \pm 0,15$
Body	epoxy
Temperature sensor	NTC 10K
Operating temperature	-5 / +80 °C
Pressure	10 bar max at 20 °C
Length	110 mm
Diameter	12 mm
Cable length	3 m
Cable type	SZ 927.1

3 CONNECTIONS

Wire color	C 3645
Black Transparent	18
Black Shield	-
Brown and red	15
Orange	14
Yellow and green	13
Transparent	4

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.