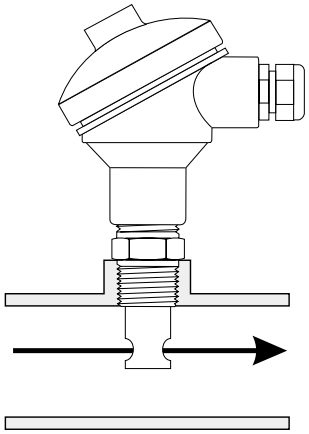
Application Note: Number AN24

Conductivity Cell Installation - SDI Cells

When installing conductivity cells it is important to locate the cell in a position where the pipe is always completely full. The cell electrodes must be in complete contact with the water sample. If air is trapped around the cell electrode it will cause errors in the measurement. If oil, grease or any insulating material is allowed to build up on the electrode surface measurement errors will also occur.

CS41 K=2.0, K=1.0 and K=0.1 Cells



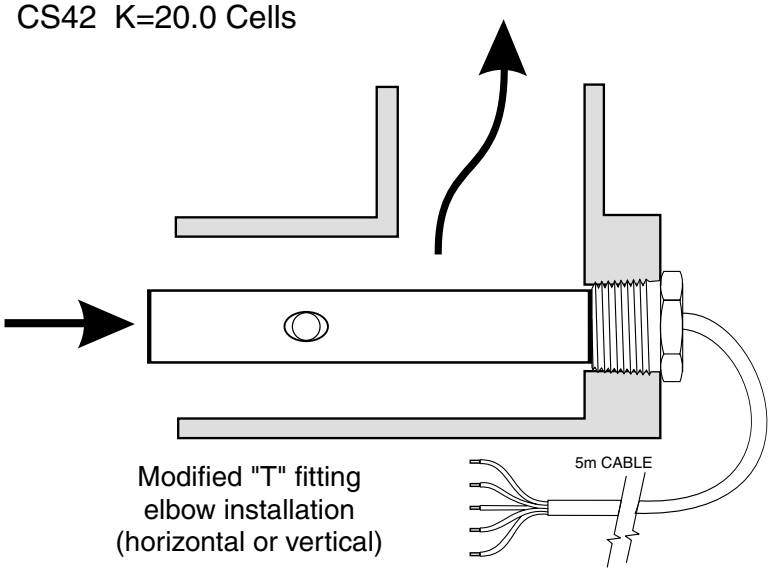
Modified "T" fitting
for in-line flow
(horizontal or vertical)

CS41 cells are suitable for installation into metallic and non- metallic pipework. The cell measurement is made on the inside of the cell body ensuring it is virtually unaffected by the surrounding sample or volume.

These cells are suitable for high temperature and high pressure applications.

The cell may be mounted in a horizontal or vertical position and is usually installed into a modified “T” fitting. The cell will provide a reliable and stable reading as long as there is a flow through the cell.

CS42 K=20.0 Cells



Modified "T" fitting
elbow installation
(horizontal or vertical)

The CS42 cell is specifically designed for elbow installation into a suitable “T” fitting. Ideally the cell should be installed with the flow entering the cell at the base opening and exiting from the holes around the perimeter.

Model CS52 is suitable for installation into metallic and non-metallic pipework.