

SVM TCF / TSF

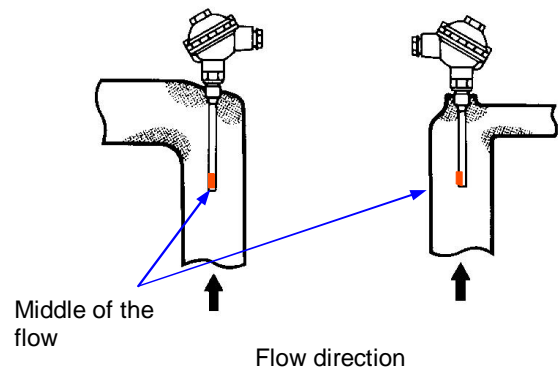
Temperature sensors

- The temperature sensors from SVM North Node are delivered two and two in pairs. Both sensors must be installed in pipes of the same dimension and symmetrical. That means that they must have exactly the same cable length between the sensors and the calculator. This is very important for keeping the accuracy in the measurements.
- The sensors are dedicated for mounting in standard pockets with an inside diameter of 6 mm.
- Any extra insulation of the sensor head beyond that for the piping is not needed.
- If one sensor is failing, both temperature sensors must be replaced with new ones.
- The temperature sensors shall then be connected to the sensor terminals, in the
- calculator, marked Pt100/500 and then a symbol for high temperature (forward) and low temperature (return). Hereafter the temperatures and the temperature difference can be read on the display.
- Sealing of the temperature sensors can be done partly with a sealing thread between the lid and the bottom of the sensor head partly between the head and the locker screw in the pocket.



Fig.1 SVM TCF/TSF

Temperature sensor placing in Tube bends



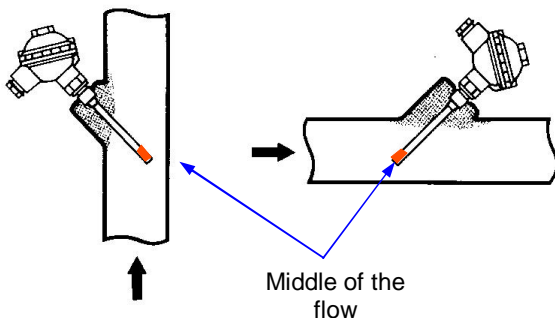
Mounting temperature sensor

To achieve highest possible measurement accuracy in a heat meter the sensor placing must be correct. There are two simple guidelines:

- The temperature sensors tip placed in the middle of the flow
- The temperature sensor tip facing the flow direction

Examples:

Temperature sensor placing in straight tubes



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