



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services

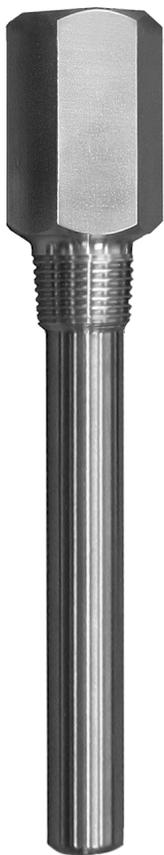


Solutions

Technical Information

TLSW1 Thermowell

Fabricated thermowell with threaded process and thermometer connections



Application

Thermowells serve as protective devices for the primary detecting elements, e.g. RTD's and thermocouples for temperature control, recording and indicating of various processes.

Material

Generally the thermowell material chosen for a specific installation is governed by corrosion conditions to which the thermowell is exposed. In some instances, strength is a primary requirement while corrosion resistance is secondary.

The model TLSW1 is a general purpose metal protection tube type thermowell with threaded process and thermometer connections welded on.

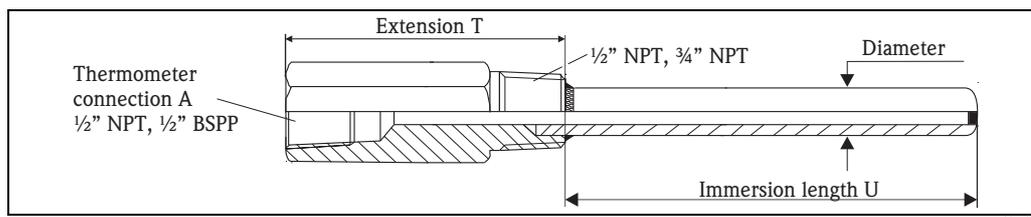
Immersion length and accuracy factor

The distance from the hot end of the thermowell to the underside of the thread, or other connection, is identified as the immersion length U. For accuracy, the immersion length should be long enough to permit the entire temperature sensitive portion of the thermometer bulb, or the thermocouple element, to project into the temperature medium to be measured.

Thermocouples have a short sensitive portion and can be used with thermowells having short immersion lengths. Resistance (RTD) and bi-metal thermometers have sensitive portions between 25 and 50 mm long.

Mechanical construction

Design, dimensions



Ordering information

Detailed ordering information is available from the following sources:

- In the Product Configurator on the Endress+Hauser website:
www.endress.com → Select country → Instruments → Select device → Product page function: Configure this product
- From your Endress+Hauser Sales Center:
www.endress.com/worldwide

Product Configurator - the tool for individual product configuration:

- Up-to-the-minute configuration data
- Depending on the device: Direct input of measuring point-specific information such as measuring range or operating language
- Automatic verification of exclusion criteria
- Automatic creation of the order code and its breakdown in PDF or Excel output format
- Ability to order directly in the Endress+Hauser Online Shop

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