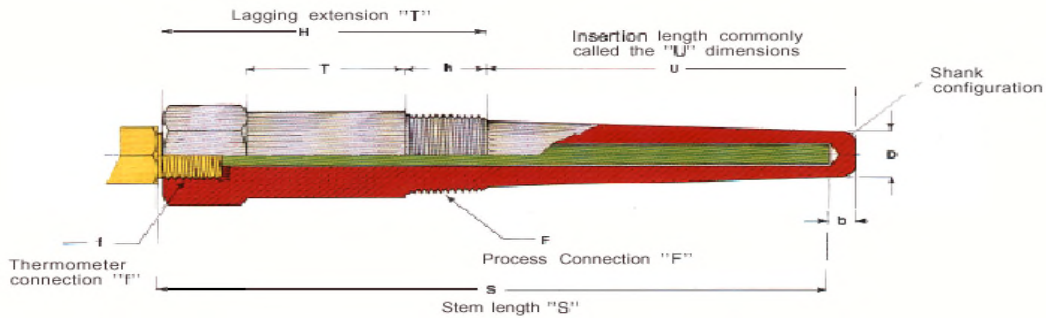




**VALVE AND FLOW CONTROL SPECIALISTS**  
*SERVICE AND RELIABILITY*

## Thermowells



A thermowell is a cylindrical fitting used to protect temperature sensors installed when measuring liquid such as in the production of beer, the thermowell protects the thermometer when measuring the temperature as well as protects the liquid from contamination. The thermowell acts as a barrier between the device measuring temperature and the liquid as well as the liquid from the outside air.

They are recommended whenever a temperature element is to be inserted into a process where corrosion, pressure, abrasion, or shear forces may threaten the life of the element. In addition, thermowells allow for a defective instrument to be removed without shutting down or draining the process.

Insertion length: Built-up, bar-stock or flanged thermowells generally have lengths from 50mm to 600 mm.

**Insertion length commonly called the "U" dimension** U-dimension measure from process connection to the end of thermowell. Available from a minimum of 50 mm to maximum 600 mm length.

**Shank configuration** The stem shape depends on the characteristics of the process fluid. The tapered shape for instance is for applications with high temperature and pressure.

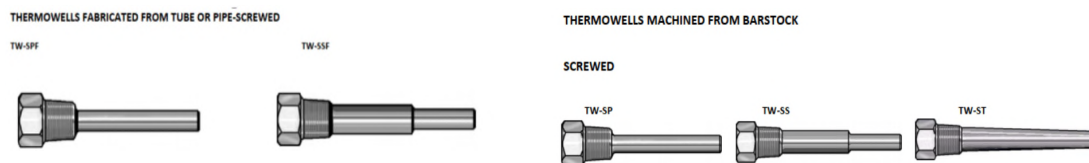
**Bulb length "S"** Bulb length, commonly called "S" dimensions- is actually a thermometer specification and not a thermowell specification. It is the length from the top of the mounting threads of a thermometer to the end of its stem.

**Shank configuration:** The stem shape depends on the characteristics of the process fluid. The tapered shape for instance is for applications with high temperature and pressure.

**Thermometer connection "F"** Male or female thread which can be connected, directly or by capillary, to the thermometer. Thread sizes: 1/2" NPT male or female. Other connection can be supplied.

**Lagging extension "T"** Dimension between the process connection and the connection.

If you service is below 2mpa and 220 Deg C a fabricated thermowell is worth considering as they are cheaper than a barstock machined unit. Both can be in brass or stainless.



For further information contact you local VCS office, we look forward to being of service.

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