

The leading manufacturer of
**Temperature Sensing and
Control Instruments**
SINCE 1982



T H E R M O W E L L S

www.thermainstruments.in

A Thermowell is a pressure-tight receptacle that protects and extends the life of a temperature sensor in processing applications where the sensor is not mechanically or chemically compatible with the process environment.

Installed directly into the piping systems, Thermowells facilitate sensor replacement in high-pressure pipelines and eliminate the need to interrupt the process flow or drain the process system for sensor maintenance functions.

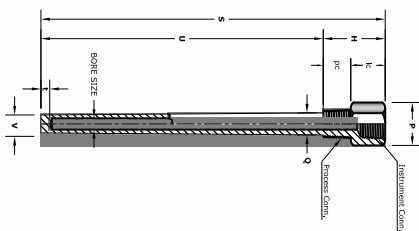
The use of standardized Thermowells permits simple relocation of sensors throughout a plant. Strength versus accurate and fast temperature measurement is a balancing act.

The factors which tend to produce high strength also tend to reduce the temperature sensor's accuracy and speed of response.



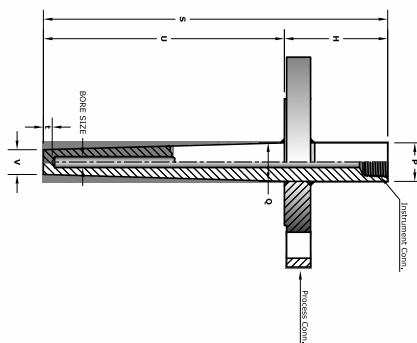
Screwed Thermowell

The Screwed Thermowells are those commonly found in most process applications. Thermowells are available for light duty applications, high pressures, high temperatures, or high velocity applications; as well as meeting many general service industry needs. Selected on the basis of pressure, temperature, flow, vibration and corrosion parameters. These are available in Straight, Tapered and Stepped Shanks. Consult factory for wells with different lengths, and materials.



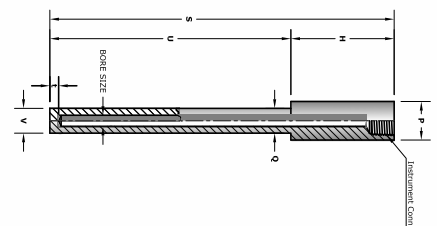
Flanged Thermowell

The flanged thermowells described on this page are those commonly found in most process applications. These wells are supplied as standard- or heavy-duty with raised-faced flanges. Other types and styles are listed later in this section. Consult factory for wells with different flange sides, lengths, and materials.



Socket Weld Thermowell

Socket-Weld Thermowells are available in a variety of materials, process connection sizes, lengths and optional lagging extensions. Thermowell specifications should be determined based on process conditions which include strength, temperature, pressure and corrosion-resistance requirements. The Heavy-Duty Socket-Weld is designed to be used with a 3000 class weld-onlet which allows the thermowell to be welded permanently into the process. The tapered design is suited for heavy-duty applications where greater rigidity is required due to process conditions.



A properly selected Thermowell will balance these opposing factors to produce a design capable of functioning satisfactorily in the intended application.

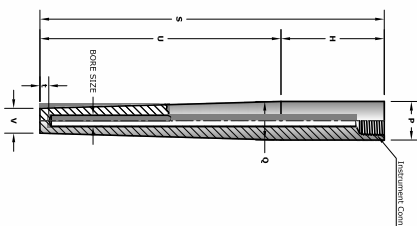


The listed factors are a general guide and are not all inclusive. Refer to ASME PTC 19.3 TW for a more authoritative dissertation on proper Thermowell selection.



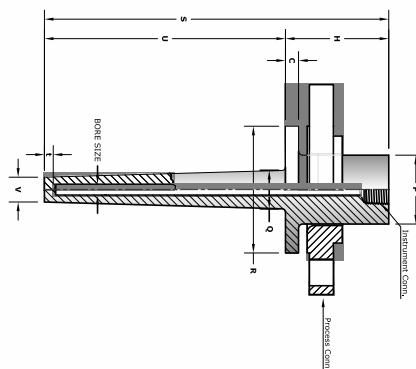
Weld -In Thermowell

Weld-In Thermowells are available in a variety of materials, process connection sizes, lengths and optional lagging extensions. Thermowell specifications should be based on process conditions which include strength, temperature, pressure and corrosion-resistance requirements. Weld-In thermowells are welded directly into the process apparatus. The tapered design is suited for heavy-duty applications where greater rigidity is required due to process conditions. These wells are available as separate components or as part of complete sensor assemblies.



Van Stone Thermowell

Available in a variety of materials, flange sizes, and pressure ratings. They are also available in various lengths and with optional lagging extensions. Thermowell specifications should be determined based on process conditions which include strength, temperature, pressure and corrosion-resistance requirements. Van Stone Thermowells are connected using a separate and reusable backing flange, eliminating the need for expensive flange materials. The tapered design is suited for heavy-duty applications where greater rigidity is required for increased pressure and flow due to process conditions.



Fabricated Thermowell

These Thermowells are built or fabricated from pipe, Process connection are welded. Thermowells are available in a variety of materials, process connection sizes, lengths.

These Thermowells are used for low parameters in process. These are available in Threaded and Flange Process Connections.

MATERIAL OPTIONS AND SPECIAL REQUIREMENTS

316 Stainless Steel, 304 Stainless Steel, Carbon Steel, 310 Stainless Steel, 321 Stainless Steel, 347 Stainless Steel, SS446, Alloy 20, C-276, Duplex, Incoloy 800, Inconel 600, Inconel 625, Inconel 825, Monel 400, and Titanium (More available upon request).

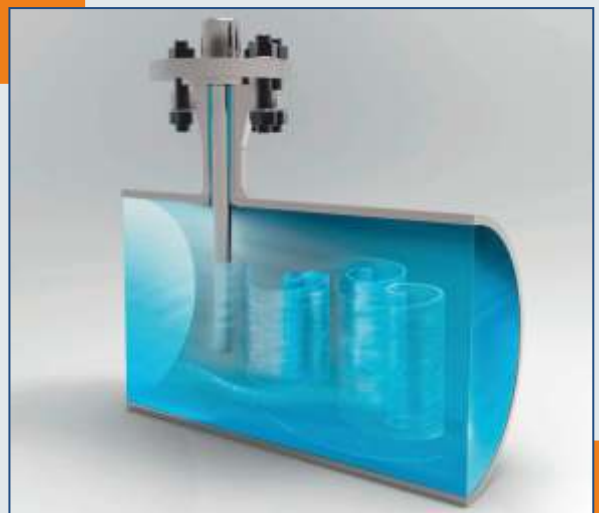
Special Requirements for Stellite overlay for corrosion resistance, PTFE and other protective coating also available.



DESIGN AND MANUFACTURE AS PER STANDARD

We can design and manufacture Thermowell in accordance with ASME PTC 19.3 TW-2010 standard. All Thermowells are thoroughly tested and inspected at all stages Non Destructive Testing can be provided on request, include the following :

- Material Certification
- Certificate of Conformity
- Hydrostatic Pressure Test
- Dye Penetrate Inspection
- Radiography
- Ultrasonic Bore Concentricity Test
- Intergranular Corrosion Test
- Hardness Testing
- Dimensional Test
- Chemical Analysis
- Third party inspection may be arranged



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