

Bar-stock thermowells are precise components serving as protective devices for the primary or sensing temperature elements as thermocouples, resistance thermometer, bimetallic thermometers. Particular care, together with long experience and specially designed drilling machines, guarantee the choice of material and construction of the thermowells.

Technical Specifications

Design

We have the capability to design and manufacture thermowells to meet severe process conditions as pressure, temperature, vibrations, fluid velocity and type of fluid.

Materials

Thermowells are manufactured from special quality bar-stock material resulting in strict compliance to chemical and physical specifications. Bars are shop-inspected to ensure freedom from internal defects and non metallic inclusions. In addition to the supplier's certificate, an internal test certificate is issued for every supply. Standard materials are AISI 316, AISI 30 and INCONEL 600.

Material tests

Every bar-stock thermowell is pressure-tested to ensure soundness of metal structure. Facilities are available for testing up to 1500 bar. If requested, and at extra cost, Gamma or X-Ray and ultrasonic test may be made.

Bore concentricity

The thermowells are drilled with a special designed deep hole drilling machine. The concentricity is held to within $\pm 5\%$ of wall thickness, depending on the length of well.

Internal bores

Bore sizes are available from 9/64" to "Y" in steps of .02". depending on thermowell length.

Length

Thermowells drilled from bar-stock can be supplied with a total length up to 1500mm.

Heat and chemical treatment

Many types of thermowells require heat or chemical treatment to eliminate stress, carbide precipitation, etc.. Heat or chemical treatment is done on special order.

Identification

Every bar-stock thermowell supplied is identified with tag, thermowell model, number, material and immersion length, flange size, rating and material, etc...

Options

Upon request and at extra cost thermowells can be supplied: complete with plug and chain (test wells), with teflon and stellite coating and any type of threading or flanged connection, etc...

To order specify: Thermowell material and immersion length "U", lag extension "E" if required, bore size, process and element connections, flange material, size and rating if required, etc...



bar stock thermowells, and protection tubes