



## General Thermowell Construction

- **Machined from Solid Bar Stock**

**Thermowells** are recommended for all process systems where pressure, velocity or viscous, abrasive and corrosive materials are present individually or in combination. A properly selected thermowell will protect the temperature instrument from possible damage resulting from these process variables. Furthermore, a thermowell permits removal of the temperature instrument for replacement, repair or testing without effecting the process media or the system.

### Process Connection

Provides a means of mounting, supporting, and/or sealing the thermowell into the process system.

### Types

**Threaded**

**Flanged-Welded**

**Socket-Weld**

**Vanstone**

**Weld-In**

**Sanitary**

**Ground Joint**

### Shank Construction

**Straight:** The outside diameter is the same size along the immersion length.

**Stepped:** The outside diameter at the end of the well is reduced to provide quicker response time.

**Tapered:** Used for high velocity applications. The outside diameter decreases gradually along the immersion length.

### Bore Size

The inside diameter of a thermowell. Standard bore sizes are .260 and .385, others are available on request.

### Immersion ("U") Dimension

Immersion length of a thermowell. The "U" length is measured from the bottom of the process connection to the tip of the thermowell.

"U" dimensions shown are for reference only.  
NBS custom manufactures each thermowell to order.

### Lagging Extension ("T") Dimension

Lagging extension exists behind the process connection and is used to extend the hex length and enable the probe to extend through insulation, walls, pipe fittings, etc.



## Tests — Procedures — Coatings

National Basic Sensor can provide a variety of Testing, Procedures and Coatings. Please Consult the Factory for further information and availability.

### Testing

- Internal Hydrostatic Test
- Dye Penetrant Test
- Charpy V-Notch (Destructive)
- External Hydrostatic Test
- Helium Leak Test
- Intergranular Corrosion Test
- Magnetic Particle Test
- Positive Material Identification (Pmi)
- Spark Test (Coating)
- Sponge Test (Coating)
- Surface Finish Test
- Ultrasonic
- Visual Test
- X-Ray Or Radiograph

### Procedures

- Oxygen Cleaning
- Coatings
- Electro-Polish
- Heat Treating
- Pickling
- Passivating
- Sodium Mentasilicate Cleaning
- Stress Relieving In Compliance With N.A.C.E.
- Full Penetration Welding
- Stamping And Etching

### Coating

- Stellite®
- Teflon®

### Miscellaneous

- Tantalum Oversheaths



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