

## **THERMOWELLS OF TUBE WELDED, DRILLED AND FLANGED FOR INDUSTRIAL THERMOMETERS W720, W232 AND THERMOCOUPLES**



The thermowells are usually used to protect the thermometer from the effects of pressure and to allow the change, replacement or revision of the thermometers without having to empty / depressurize the containers or pipes. They are essential in heating thermometers because the bulb of the thermometer is not watertight. The thermal transfer between the thermowell and the thermometer will be ensured by contact, mineral oil, aluminium powder or any other substance with the properties suitable for the transmission of the temperature. The air must be eliminated because it is heat insulator.

### **Constructive characteristics:**

The material usually used in its construction is AISI 316 stainless steel but it can be made in other materials if the client requests.

The length of the immersion is built according to the length of the bulb of the thermometer, being usually 15 mm longer. The minimum length is 70 mm. The maximum length will depend on technical limitations; the length is not the same in tube thermowell as in drilled one.

### **Recommendations for use:**

The working pressure of the thermowell decreases with temperature and depends on the dangerousness and chemical aggressiveness of the process.

In general we can use the thermowells with the following recommendation:

Brass thermowell: 160°C, PN 25 bar

Stainless steel thermowell AISI316: 400°C, PN 40

Bear in mind that the above details are for minimum thickness of brass thermowell and 1 mm tube.

### **Thermowell dimensions:**

The hexagonal that contains the female thread in order to fix the thermometer has a height of 26 mm. The threaded area is 20 mm for  $\frac{1}{2}$  and  $\frac{3}{4}$ , for connections 1" is 25mm. You need to add the length of the thermowell.

### **Weldings:**

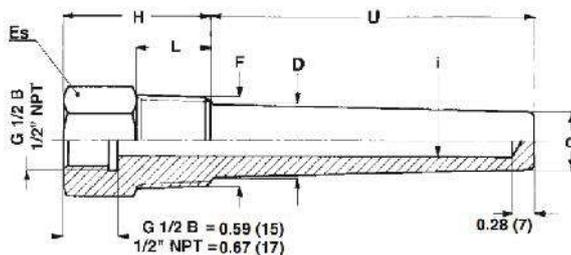
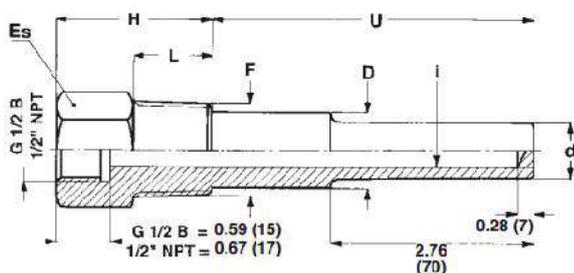
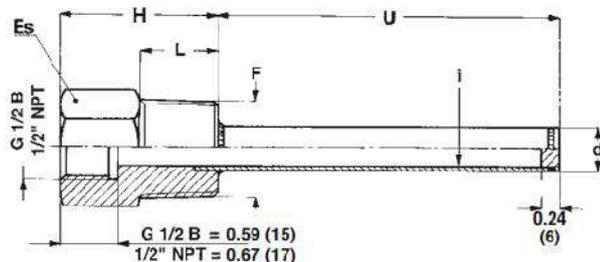
All the weldings used in the manufacturing of the thermowell are TIG welding

### **Thermowell diameters:**

They are manufactured for bulb diameter thermometers of 6, 8, 10, 12 mm

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