

THERMOWELLS FOR V-SHAPE THERMOMETERS



Thermowells are commonly used to protect the thermometer from the effects of pressure and to allow thermometers to be changed, replaced or serviced without having to empty/depressurise vessels or pipes.

The thermal transfer between the thermowell and the thermometer will be assured by contact, mineral oil, aluminium powder or any other substance with the appropriate properties for the transmission of the temperature, the air must be eliminated, because it is insulating from the heat.

Characteristics:

The material usually used in its construction is brass or stainless steel AISI 316.

The length of the immersion is constructed according to the length of the bulb of the thermometer, being usually 15 mm shorter than the same.

The minimum length is 35 mm. The maximum length will depend on technical limitations.

Recommendation for use:

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

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

Brass sheaths : 160°C, PN 25 bar

Stainless steel tube sheaths AISI316 : 400°C, PN 40

However, the minimum thickness of the brass sheaths and tube must be 1 mm.

Sizes of the sheath:

The hexagonal thread that contains the female thread to fix the thermometer has a height of 26 mm, the threaded area is 20 mm for ½ connections, to this must be added the length of the sheath.

Welds:

All welds used in the manufacture of the stainless steel sheath are TIG welds.

Thermowell diameters

They are manufactured for thermometers with bulb diameter 10, the inside diameter of the thermowell is 10,5 mm, the outside 12 mm.

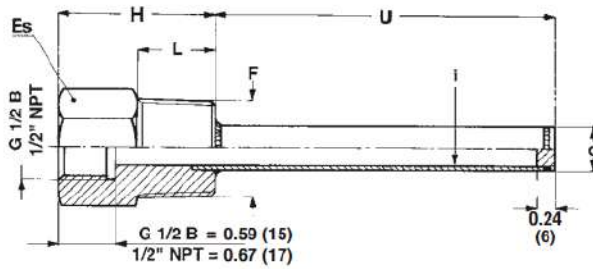
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