

## Protecting Thermowell Machined from Solid Bar

The stainless steel thermowell for the thermometer is manufactured by deep hole drilling method, when its length is less than 600 mm. There is no welding seam at the bottom of the thermowell. Although the machining of thermowell is very difficult but it highly improves the pressure rating, reduce leakage, enhance anti-corrosion, etc. Thermowells longer than 600 mm will be handled under the discussion with users after its model number and specification have been determined. Detailed specifications are shown in Table 3, 4 and 5.

**Table 3. Enclosure Rating**

Style	Enclosure Rating	Classified Explosion-proof
Water-proof	IP65	
Explosion-proof	IP65	dIIBT4
	IP65	dIIBT6
	IP65	dIICT4
Intrinsic Safe	IP65	Ia, Ib

**Table 4. Corrosion-proof for Protecting Thermowell**

Material	Max. Operating Temp.
F (Teflon)	0 ~ 190 °C
T (Titanium)	< 350 °C

**Table 5. Wear-proof for Protecting Thermowell**

Material	Max. Operating Temp.	Rigidity
Ni60	-200 ~ 600 °C	HRC60

## Type, Temperature Range and Accuracy of Thermometer

All thermometers meet the international standards; See the table 5 for the temperature range and accuracy. (“t” refers to absolute value which is measured. Normal, accuracy for Platinum RTD is rate B.)

**Table 6 Sensor Types, Temperature Range and Accuracy**

Sensor	Type	Symbol	Temp. Range	Accuracy
Thermocouples	B	WRB	0~1600	+/- 1.5 °C or +/- 0.25% t
	S	WRS	0~1300	+/- 1.5 °C or +/- 0.25% t
	K	WRK	0~1100	+/- 2.5 °C or +/- 0.75% t
	E	WRE	0~600	+/- 2.5 °C or +/- 0.75%t
	T	WRT	-40~350	+/- 1 °C or +/- 0.75%t
	J	WRJ	-40~750	+/- 2.5 °C or +/- 0.75%t
RTD	Pt100	WZP	-200~500	Class A: +/- (0.15 + 0.002   t   ) Class B: +/- (0.30 + 0.005   t   )
	Cu50	WZC	-50~100	+/- (0.30 + 0.006   t   )