

# Thermowell Form 5 – DIN 43772

For thermometers with external thread - multi-part

**SR**

## APPLICATION

Thermowells/Protective tubes made of thermally conductive materials serve to separate the temperature measuring device from the medium being measured. A protective tube is particularly recommended for pressurized media. Furthermore, a protective tube protects the thermometer from aggressive media and allows for easy replacement of the thermometer.

Thermometers.

The maximum static pressure load of the protective tubes of type SR Form5 depends on the material used and the pressure-temperature load.



## EXECUTION

- Screw-in thermowell
- multi-part - brazed or welded
- Thermometer connection G1/2" or G3/4"
- Immersion shaft thermometer ø6mm, ø8mm or ø10mm
- Materials: Brass, steel or stainless steel 1.4571

## APPLICATION

- Chemistry, process engineering, apparatus engineering
- Under low and medium process loads

## DESCRIPTION

- Process connection G1/2" or G3/4"
- Connection to thermometer G1/2" or G3/4"
- Bore according to DIN ø7mm, ø9mm, ø11mm
- Bore design: quick response, ø6.2mm, ø8.2mm
- Installation length U1 = 82, 142, 182, 232, 382 mm or as per customer requirements
- Total length L = U1 + 28mm

## OPTION

- Special designs available on request (threaded connections, material, dimensions, etc.)
- Acceptance test certificates 3.1
- Pressure test

## TECHNICAL DATA

Dimensions and Labels:

- SW: Thermometer connection
- N: Process connection thread
- L: Total length of protective tube
- K1: Thread height
- U1: Installation length protective tube
- U1...: wrench size
- SW...: Diving shaft diameter
- Ø F1...: Bore diameter
- Ø d1...: Sealing collar diameter
- Ø D1...: Ø D1...

Dimensions in mm

Material	Connection N	Connection E	Drilling Ø Bo	Insertion shaft Ø F1	H1	H2	Ø D1	SW
stainless steel 1.4571	G1/2"	G1/2"	6.2	8	19	15	26	27
			8.2	10				
			7	12				
			9	14				
			11	14				
Brass	G1/2"	G1/2"	8.5	10	19	15	26	27
stainless steel 1.4571	G3/4"	G3/4"	6.2	8	22	17	32	32
			8.2	10				
			7	12				
			9	14				
			11	14				

Assignment of protective tube – thermometer installation length L1

Protective tube Installation length U1	Thermometer shaft length L1	
	Connection fixed	Rotatable connection
45	63	
82	100	80
142	160	140
182	200	180
232	250	230
382	400	380
	L1 = U1 + 18mm	
	L1 = U1 - 2mm	