

Thermowell Form 9 – DIN 43772

For thermometers with union nut (internal thread) - one-piece

SR

APPLICATION

Thermowells/Protective tubes made of thermally conductive materials serve to separate the temperature measuring device from the material being measured.

Thermowells are particularly recommended for pressurized media. Furthermore, a protective tube protects the thermometer from aggressive media and allows for easy thermometer replacement.

The maximum static pressure load of the protective tubes of type SR Form 9 depends on the material used and the pressure-temperature load.

Version Form 9:

Thermowell/Protective tube with cylindrical external thread



EXECUTION

- Screw-in protective tube
- one-piece – made from solid material
- Thermometer connection with union nut G1/2" or G3/4"
- for diving shaft thermometers Ø6mm, Ø8mm or Ø10mm
- Materials: heat-resistant steels, stainless steel or heat-resistant stainless steel

APPLICATION

- Power plant construction, chemistry, process engineering, apparatus engineering and instrumentation and control technology
- under high process-related loads

DESCRIPTION

- Process connection G1/2" or G3/4"
- Connection to thermometer G1/2" or G3/4"
- Bore according to DIN Ø7mm, Ø9mm, Ø11mm, others on request
- Installation length U1 = 73mm/110mm/170mm/260mm/410mm

OPTIONS

- Special designs available on request (threaded connections, installation length, material, dimensions, etc.)
- Inspection test certificates 3.1
- Weld-in sleeves / temperature fittings according to customer specifications
- Hydrostatic internal pressure test

TECHNICAL DATA

	N... E... K1... K2... L ... U1... SW... Ø F2... Ø d1... Ø D1...	Thermometer connection Process connection thread Thread height for E Thread height for N Total length of protective tube Installation length protective tube wrench size Diving shaft diameter Bore diameter Sealing collar diameter
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Dimensions in mm

Material	Connection N	Process connection E	Drilling Ø d1	Insertion shaft Ø F2	K1	K2	Ø D1	SW
stainless steel 1.4571	G1/2"	G1/2" (M20x1.5)	6.2	14	14	12	26	27
			8.2	15				
			7	17				
			9	17				
			11	17				
stainless steel 1.4571	G3/4"	G3/4" (M27x2)	7	17	16	14	32	32
			9	17				
			11	19				
			13	20				
			14	22				

Assignment of protective tube – thermometer installation length L1

Thermowell Installation length U1	Thermometer immersion shaft length L1 with internal thread
	union nut
73	89
110	126
170	186
210	226
260	276
	L1 = U1 +16mm