

Thermowell for Clamping the Stem

**Solid drilled for welding
for plain bimetal stems**

**Model
SK4.B**

Application

Thermowells are amongst others applied to protect thermometer stems against process-related chemical and / or mechanical loads.

Furthermore a thermowell, which remains at the measuring point, enables the unproblematic dismantling of the thermometer for maintenance or repair.

Standard Versions

For plain bimetal stems, our model B1

Construction Type

Solid drilled, for low to medium loads by the process (flows, pressures, temperatures and vibrations).

Process Connection

For welding

Details see reverse side

Connection to Thermometer Stem

With lateral fixing screw

Internal Diameter d1

Ø 7 mm suitable for stem-Ø dF 6 mm
Ø 9 mm suitable for stem-Ø dF 8 mm

Total Length (Standard)

73, 88, 108, 148 mm

Details and installation length U1 see reverse side

Material

1.4571 (316 stainless steel)

Process Temperature / Process Pressure

Maximum allowed process temperature: 500 °C

Maximum allowed process pressure: 25 bar

Concrete process conditions (medium, flow rate, pressure, temperature) and the thermowell version (dimension, material) could cause a reduction of the above mentioned maximum allowed values, see **load diagrams DIN 43 772**.

We can make a **thermowell calculation** for your concrete field of application (see special version and options) upon request.



Special Versions and Options among others

- Other thermowell-Ø upon request
- Other thermowell- / installation lengths L / U1 upon request
- Other materials upon request
- Test report 2.1
- Inspection certificate 2.2
- Test certificate 3.1 for the material
(copy of the material quality certificate of the basic material with re-stamping certificate)

Ordering Information

Model	SK4.B
Internal-Ø d1	7 or 9 mm
Total length	L
Installation length	U1
Material	1.4571

Example: SK4.B, d1=9, L= 88, U1=60, 1.4571



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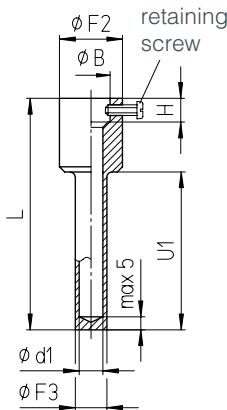
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Dimensions, Lengths, corresponding Thermometer Stems

Dimensional data (mm)

SK4.B

Thermowell diameter and connection dimensions				
F2	d1	F3	B	H
24	7	12	14.5	9
	9	14		



Thermowell total length, installation length and thermometer stem length

Standard thermowell lengths, suitable stem lengths L

Standard thermowell length		Suitable stem length Model B1
Total length	Install. length	
$L^{+1\ 1)}$	$U1^{+2}$	
73	45	58
88	60	73
108	80	93
148	120	133

¹⁾ L= U1+28 mm

Other thermowell lengths

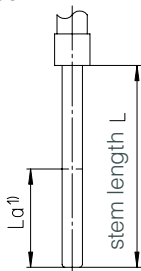
Calculation

- Thermowell length when existent stem thermowell length $L = L\text{ (stem)} + 15\text{ mm}$
- Stem length when existent thermowell stem length $L = L\text{ (thermowell)} - 15\text{ mm}$

Thermometer Stem

Corresponding thermometer stem

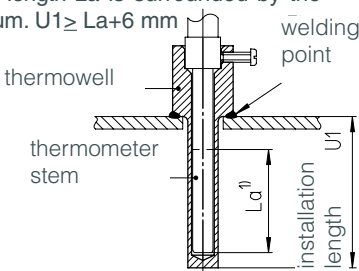
Models B1
plain stem,
Form 1 DIN 13 190



¹⁾La = active stem length
The active stem length La can be found on the thermometer data sheets.

Installation example

The installation length U1 of the thermowell has to be selected that the active length La is surrounded by the medium. $U1 \geq La + 6\text{ mm}$



Technical changes, replacement of materials and errors excepted.