

Thermowell for Clamping the Stem

SK4.B

Solid drilled for welding
For plain bimetal stems

Application

Amongst others, thermowells are used to protect the thermometer stem from process-related chemical and/or mechanical loads. In addition, a thermowell remaining at the measuring point allows for easy 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 process-related loads (flows, pressures, temperatures and vibrations)

Process Connection

For welding
Details see page 2

Connection to Thermometer Stem

With lateral retaining 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 page 2

Material

Stainless steel 316Ti (1.4571)

Process Temperature/Process Pressure

Maximum permissible process temperature: 500 °C
Maximum permissible process pressure: 25 bar

The specific process conditions (medium, flow rate, pressure, temperature) and the thermowell version (dimension, material) might cause a reduction of the aforementioned maximum permissible values, see **load diagrams DIN 43 772**.

Upon request, we perform a **thermowell calculation** for your individual case (see Special Versions and Options).



Special Versions and Options

- Other thermowell Ø upon request
- Other thermowell lengths/installation lengths L/U1 upon request
- Other materials upon request
- Certificate of compliance with the order 2.1
- Test report 2.2
- Inspection certificate 3.1 for the material
- Thermowell calculation for the specific case of application with certificate

Ordering Information

Please specify in your order:

Model	SK4.B
Internal diameter d1	7 or 9 mm
Total length L	e.g. 88
Installation length U1	e.g. 60
Material	1.4571

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

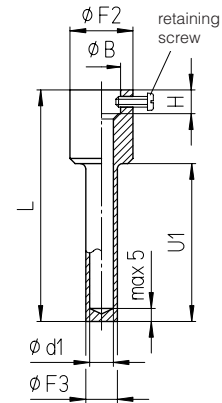
Dimensional Data, Length Specifications, Corresponding Thermometer Stems

Dimensional Data (mm)

SK4.B

Thermowell Diameter and Fitting Dimensions

F2	d1	F3	B	H
24	7	12 ¹⁾ / 17	14.5	9
	9	14 ¹⁾ / 17		



Total Length Thermowell, Installation Length and Length Thermometer Stem

Standard thermowell lengths, suitable stem lengths L

Thermowell Length (Standard)		Suitable Stem Length
Total length	Installation length	Model B1
$L^{+1\ 2)}$	$U1^{+2}$	
73	45	58
88	60	73
108	80	93
148	120	133

Other thermowell length

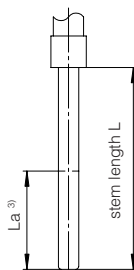
Calculation

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

Thermometer Stem

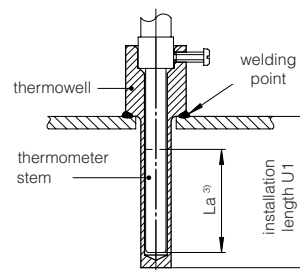
Corresponding thermometer stems

models B1
plain stem
form 1 DIN EN 13 190



Installation example

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



¹⁾ for $L \leq 108 \text{ mm}$

²⁾ $L = U1 + 28 \text{ mm}$

³⁾ La = active stem length. The active stem length La can be found in the thermometer data sheets.