

Thermowell for Clamping the Stem

Solid drilled for screwing-in
for plain bimetal stems

Model
SK3.B

Application

Thermowells are being 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 dismounting of the thermometer for maintenance or repair.

Standard Versions

For plain bimetal stems, our model B1

Construction Type

Fabricated, that means screw fitting welded to thermowell, for low loads by the process (flows, pressures, temperature and vibrations).

Process Connection E

Male thread G ½ B
Details see reverse side.

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)

72, 100, 112, 160, 250 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 process connections upon request
- 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 upon request
- Test certificate 3.1 for the pressure test upon request

Ordering Information

Model	SK3.B
Process Connection E	G ½ B
Internal-Ø d1	7 or 9 mm
Total length	L
Installation length	U1
Material	1.4571

Example: SK3.B, E = G ½ B, d1 = 9, L = 100, U1 = 88, 1.4571



Sales and Export South, West, North

ARMATURENBAU GmbH

Manometerstraße 5 • D-46487 Wesel - Ginderich
Tel.: +49 (0)28 03/91 30-0 • Fax: +49 (0)28 03/10 35
armaturenbau.com • mail@armaturenbau.com

Subsidiary Company, Sales and Export East

MANOTHERM Beierfeld GmbH

Am Gewerbepark 9 • D-08344 Grünhain-Beierfeld
Tel.: +49 (0)37 74/58-0 • Fax: +49 (0)37 74/58-545
manotherm.com • mail@manotherm.com

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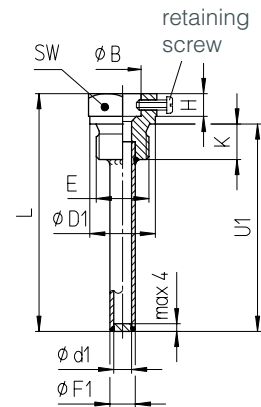
Dimensions, Lengths, corresponding Thermometer Stems

Dimensional Data (mm)

SK3.B

Thermowell Diameter and Connection Dimensions

E	d1	F1	D1	B	H	K	SW
G 1/2 B	7	12	26	14.5	9	14	27
	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 $L^{+1)}$	Install. length $U1^{+2)}$	
72	60	57
100	88	85
112	100	97
160	148	145
250	238	235

¹⁾ $L = U1 + 12$ mm

Other thermowell lengths

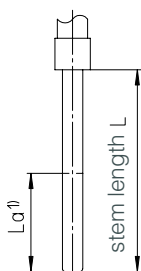
Calculation

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

Thermometer stem

Corresponding thermometer stem

Models B1
plain stem,
Form 1 DIN 13 190



¹⁾ L_a = active stem length

The active stem length L_a 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 L_a is surrounded by the medium. $U1 \geq L_a + K + 5$ mm

