

Thermowell DIN 43772 Forms 6 and 7

Solid drilled for screwing-in
for stem with male thread

Models :
SF6 / SF7

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 dismantling of the thermometer for maintenance or repair.

STANDARD VERSIONS

For thermometer stem with male thread turnable or rigid, our models A4, B4, A4.1 and B4.1

Construction Type

Solid drilled, that means completely manufactured of one piece for high loads by the process (flows, pressures, temperatures and vibrations).

Process Connection E

Male thread

SF6: G ½ B or G ¾ B;

SF7: ½" NPT or ¾" NPT

Details see reverse side.

Connection to Thermometer Stem N

Male thread G ½ or G ¾

Details see reverse side.

Internal Diameter d1

Ø 7 mm suitable for stem-Ø dF 6 mm

Ø 9 mm suitable for stem-Ø dF 8 mm

Ø 11 mm suitable for stem-Ø dF 10 mm

Ø 13 mm suitable for stem-Ø dF 12 mm

Ø 14 mm suitable for stem-Ø dF 13 mm

Available combinations of the connections E + N and internal diameter d1, see reverse side.

Total length L (normed Length)

110, 170, 260, 410 mm

Details and installation length U1 see reverse side.

Materials

1.4571 (316 stainless steel) or 1.7335 (13 CrMo 4-5)

Process Temperature / Process Pressure

Maximum allowed process temperature: 500 °C

Maximum allowed process pressure: 150 bar

Concrete process conditions (medium, flow rate, pressure, temperature) and the thermowell version (dimensions, 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 OTHER

- Other combinations:
Process connection E / connection to thermometer stem N:
SF6: M 20 x 1.5 M 20 x 1.5
M 27 x 2 M 20 x 1.5
M 27 x 2 M 27 x 2
Others, also for SF7, upon request
- Suitable connection screw fitting, see data sheet 8.8201
- Suitable neck tube, see data sheet 8.8301
- Other thermowell-Ø upon request
- Other thermowell- / installation lengths L / U1 upon request
- Other materials upon request
- Thermowell free of grease and oil
- Coating adjusted to medium and medium temperature 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)
- Test certificate 3.1 for the pressure test
(max. installation length U1= 300 mm, pressure test with extrinsic water, max. 250 bar, 3 minutes)
- Thermowell calculation for the concrete case of application with certificate

Ordering Information

Model	SF6 or SF7
Process connection E	SF6: G ½ B or G ¾ B; SF7: ½" NPT or ¾" NPT
Connection to thermometer stem N	G½ or G¾
Internal-Ø d1	7, 9, 11,13 or 14 mm
Total length	L
Installation length	U1
Material	1.4571 or 1.7335

Examples: SF6, E=G½B, N=G½, d1=11, L=170, U1=142, 1.4571
SF7, E=½" NPT, N=G½, d1=11, L=170, U1=142, 1.4571

Thermowell DIN 43772 Forms 4F

For flanging
for stem with male thread

Models :
SF4F

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 dismantling of the thermometer for maintenance or repair.

STANDARD VERSIONS

For thermometer stems with male thread, turnable or rigid, our models A4, B4, A4.1 and B4.1

Construction Type

Thermowell (identical with thermowell model SF4, that means solid drilled with cone), with welded process connection flange for high loads by the process (flows, pressures, temperatures and vibrations).

Process Connection

Connection flange according to DIN EN 1092-1, sealing face Form B1,

nominal size DN / nominal pressure PN

DN 25 PN 10-40

DN 50 PN 10-16

DN 50 PN 25-40

Connection to Thermometer Stem N

Female thread M18 x 1.5, G ½ or G ¾

Details see reverse side.

Internal Diameter d1

Ø 7 mm suitable for stem-Ø dF 6 mm

Ø 9 mm suitable for stem-Ø dF 8 mm

Ø 11 mm suitable for stem-Ø dF 10 mm

Ø 13 mm suitable for stem-Ø dF 12 mm

Available combinations for the connection to thermometer stem N and internal diameter d1, see reverse side.

Total Length L (normed length)

200, 260, 410 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

Maximal allowed process pressure: corresponding to PN of the flange

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

- Connection thread to thermometer stem N M 20 x 1.5 (instead of G ½), others upon request
- Suitable connection screw fitting, see data sheet 8.8201
- Suitable neck tube, see data sheet 8.8301
- **Other thermowell-Ø upon request**
- Other thermowell- / installation lengths L / U1 and cone length U upon request
- Flanges according to other norms or other nominal sizes upon request
- Other materials upon request
- Thermowell free of grease and oil
- Coating adjusted to medium and medium temperature upon request
- Test report 2.1
- Inspection certificate 2.2
- Test certificate 3.1 for the material
- Test certificate 3.1 for the pressure test upon request

Ordering Information

Model	SF4F
Process connection flange	DN 25, PN 10-40 DN 50, PN 10-16 or DN 50, PN 25-40
Nom. size / nom. pressure	DN / PN
Connection to thermometer stem N	M 18 x 1,5; G ½ or G ¾
Internal-Ø d1	7, 9, 11 or 13 mm
Total length	L
Installation length	U1
Material	1.4571

Example: SF4F, DN 50, PN 10-40, N=G¾, d1=11, L=200, U1=130, 1.4571