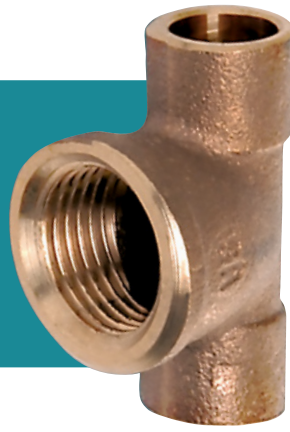


Technical Submittal

SA

[4000]



SANHA[®]
a perfect fit

Product Group Description

The SANHA[®] Series 4000 fittings consist of solder and transition fittings for copper pipes according to EN 1057 and EN 13348 for hard and soft soldering. All products are certified according to many national and international certification bodies. SANHA[®] Series 4000 capillary solder fittings are manufactured from copper alloys CC499K (threaded parts, cast parts) and fulfill all requirements of EN 1254. The fittings have optimum corrosion resistance due to the comparatively low carbon content of $<0,5 \text{ mg C/dm}^2$

Marking

Marking on the fitting: Manufacturer (SA) & dimension

Marking on the packaging: Logo manufacturer (SANHA[®]), Approval markings (DVGW,..), quantity, system name (Series 4000), Product type (e.g. elbow)

Dimensions

All dimensions from 6 mm up to 159 mm are available

Areas of applications

- | Drinking water
- | Heating / Cooling
- | Refrigeration systems
- | Medical gases
- | Gas installations
- | Solar systems
- | Compressed air
- | Technical gases

Any use of the system for media or application areas not listed above requires approval from SANHA[®]! The product information, available online or in print, contains comprehensive details regarding uses, limitations, and national regulations and guidelines.

Standard and approvals

Certificates issued by independent bodies (regular audits - several per year - of products, including an audit of the factories).
- RAL/Gütegemeinschaft (D), Kitemark (UK), KIWA (NL), NF (F), etc.

Standard and approvals in case of use for medical gases.

- | Installations for medical gases in conformity with EN ISO 7396 and EN 737
- | Fittings according to EN 1254 and tubes in accordance with EN 1057
- | Only hard soldering allowed in accordance with EN 1254
- | Degreasing in accordance with the "Gütegemeinschaft Kupferrohr e.V." (max 0.5 mg/dm^2 carbon) - (EN 1254 prescribes max 1.0 mg/dm^2)
- | For medical gas installations where individual packaging is required, the material can be ordered under the article number 1MG4**.

Further certifications and approvals can be found at the website

Operating conditions

The solder fitting Series 4000 can be used with the following operating conditions:

- | Water and aqueous solutions and technical gases (non-toxic, non-flammable up to 159 mm)
- | Operating pressure in combination with operating temperature: In accordance with the applicable regulations - outside the regulations on request.
- | Type of thread: Pipe thread: R/Rp thread according to EN 10226,
- | Fastening thread: G thread according to ISO 228

Technical Submittal

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[4000]



Solder fitting material

SANHA® capillary solder fittings are manufactured from copper alloys CC499K (threaded parts, cast parts) and fulfill all requirements of EN 1254.

Permitted pipes

"SA" Series 4000 fittings are compatible with all copper pipe types according to EN 1057 available on the market, offering a high degree of flexibility.

National standards and guidelines relevant to the application must be observed. If other dimensions are needed, please do not hesitate to contact us at technik@sanha.com

Certificates

These certificates can be found at www.sanha.com:

Country	Certifier
Czech Republic	SZU
France	AFNOR
Germany	DVGW
Germany	RAL
Hungary	EMI-NME
Italy	TIFQ
The Netherland	KIWA
Poland	PZH
Slovakia	TSU
Switzerland	SVGW
Ukraine	UA
Ukraine	UC
The United Kingdom	Kitemark