

Technical Submittal

SANHA[®]-Therm (24000)



SANHA[®]
a perfect fit

Product Group Description

The piping system consists of SANHA[®]-Therm carbon steel press fittings according to EN 10305 mounted with a black EPDM (ethylene propylene diene rubber) sealing ring. SANHA[®]-Therm and SANHA[®]-Therm DZ carbon steel system pipes according to EN 10305-2 & EN 10305-3. All SANHA[®]-Therm press fittings are made of carbon steel, type 1.0034 / E195 (for pressing components) The pipes and press fittings are galvanized on the outside. The SANHA[®]-Therm DZ version is hot-dip galvanized on the in- and outside. Please note that we also have the SANHA[®]-Therm available in a silicon free version under the article group number: 124SF24...

Marking

Marking on the fitting: Manufacturer & dimension, approval marking, Red dot which means not allowed for drinking water.

Marking on the pipe: Red lettering of the manufacturer & dimension, approval marking, system name (SANHA[®]-Therm), material number (1.0034)

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

Press fitting with Leak path feature.

During a leakage test, accidentally left-unpressed connections are quickly discovered. SANHA[®] warrants the following pressure ranges for the identification of unpressed connections:

Min. water pressure: 0.1 MPa / 100 kPa / 1 bar / 14.5 PSI

Max. water pressure: 0.65 MPa / 650kPa / 6,5 bar / 94,3 PSI

Min. air pressure: 150 hPa / 15 kPa / 150 mbar/ 2,18 PSI

Max. air pressure: 0.3 MPa /300 kPa / 3 bar / 43,5PSI

Sealing Elements

EPDM Black (ethylene propylene diene monomer)

Notice: Depending on the operation period and media temperature, the press fitting system's sealing materials may undergo thermal aging. The sealing material undergoes thermal aging more quickly at higher media temperatures. When dealing with unique operating circumstances, such as industrial heat recovery systems, it is important to compare the press fitting system's specifications with those of the appliance manufacturer. Please get in touch with SANHA[®] if you have any questions about the proper material selection or would like to use the press fitting system outside of the specified application regions.

Dimensions

Fittings: All dimensions from 12 to 108 mm are available

Pipes: All dimensions from 12 to 108 mm are available

Tools

SANHA[®]-Therm can be pressed up to 54 mm with SA, M and V original profile. Furthermore, dimensions larger than 54 mm can be pressed with SA & M original profile. For reason of guarantee, the installer always has to respect the instructions of the manufacturer regarding the use of press tools and press machines; Especially the instructions for the use and combination of tools and machines of different manufacturers. Finally, a common use of the press tools and press machines of different manufacturers is strictly forbidden without the authorization of the respective manufacturers.

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Areas of applications

SANHA®-Therm can only be used for closed circuits.

- | Closed heating circuits (no DZ pipes)
- | Solar
- | Cooling water (depending on temperature and pressure)
- | Compressed air (oil free)
- | Fire extinguishing according to EN 10346
- | Glycol

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. Please note that there are specific limitations regarding the system with DZ pipes based on application (temperature) and certification.

Standard and approvals

Press fittings and pipes tested in accordance with EN 10305. For use in heating systems VDI guideline 2035 and EN 12828. Approved for press fittings from 12 mm up to 108 mm and approved for systems pipes from 12 mm up to 108 mm. Further certifications and approvals can be found at the website

Operating conditions

The press fitting system SANHA®-Therm can be used with the following operating conditions:

- | Water and aqueous solutions and technical gases (non-toxic, non-flammable up to 108 mm)
- | Operating pressure: 16 bar
- | Technical gases: 16 bar
- | Operating temperature with EPDM: -30°C up to +120°C
- | Operating temperature in combination with SANHA®-Therm DZ pipes: -30°C up to +45°C
- | Type of thread: Pipe thread: 7/1 R/Rp thread according to EN 10226,
- | Fastening thread: G thread according to ISO 228

Press fitting material

SANHA®-Therm fittings are made of carbon steel (material number 1.0034 / E195) according to the standard EN 10305.

Corrosion protection

The press system is basically to protect against moistness over a long time or against additives in the enclosed building material respectively in the atmosphere that can create corrosion processes of the galvanized steel. In this case a corrosion protection according to AGI-Q 151 (two-component systems) has to be carried out. This corrosion protection has to be waterproof and free of pores both.

Permitted pipes

For the installation of SANHA®-Therm fittings the use of SANHA®-Therm and SANHA®-Therm DZ carbon steel pipes are recommended. Both pipes are laser-welded and produced according to the standard EN 10305.

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	QB CSTB
Germany	DNV GL
Germany	TÜV
Germany	VdS
Hungary	EMI-NME
Poland	ITB
Slovakia	TSU
Ukraine	UA
Ukraine	UC