

Technical Submittal

RefHP® [29000]



SANHA®
a perfect fit

Product Group Description

The SANHA® RefHP® fittings are high-pressure brazing fittings for copper-iron pipes for use in transcritical high-pressure installations such as CO₂-systems. The fittings are made of copper-iron (CuFe2P, CW107C) according to EN 12449

Marking

Marking engraved on the fitting:

Manufacturer & dimension, Material (CuFe).

Material is engraved in fitting body and even visible after brazing

Marking on the packaging:

Logo manufacturer (SANHA®), Approval marking (UL) , quantity, logo CO₂ + material, system name (RefHP®), Product type (e.g. elbow)

Dimensions

All dimensions from 1/4" to 2 5/8" are available

Areas of applications

- | Refrigeration (CO₂) systems
- | High pressure applications

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

- | Fittings are produced from pipes, material CuFe2P CW107C according to EN 12449 which comply to VdTÜV Material Data Sheet 567.
- | Fittings are produced according to AD 2000-Merkblatt W 6/2.
- | Pipes for the production of these fittings are delivered with an Inspection Certificate 3.1 according to EN 10204:2004.
- | Dimensional tolerances comply with the reference design to meet above mentioned requirements. The fittings have inch dimensions (diameter) according to ASTM B280.
- | Dimensions and tolerances comply with product standards EN 1254-1/EN 1254-5
- | Dimensions and tolerances appropriate for 'lap joints' are manufactured according to EN 14276-1, Annex B with pipes according to EN 378-2 and EN 14276-2

Further certifications and approvals can be found at the website

Operating conditions

The fittings of SANHA® RefHP® can be used with the following operating conditions:

- | Water and aqueous solutions and technical gases (non-toxic, non-flammable up to 2 5/8")
- | Operating pressure: 130 bar
- | Operating temperature: -196°C up to 150°C

Technical Submittal

RefHP® [29000]



Fitting material and Installation information

The fittings are made of copper-iron (CuFe2P, CW107C) and meet all quality requirements of the German "VdTÜV material sheet 567" as well as the AD 2000 data sheet W 6/2 and comply with various other certifications such as UL.

Fittings and pipes must be joined with silver brazing alloy with at least 2 % Ag. We also recommend the use of a flux FH 10 according to EN 1045 for soldering with copper alloys such as brass.

The installation must be carried out in compliance with all relevant technical rules and regulations. In particular, EN 378-2 "Refrigeration systems and heat pumps" must be followed in detail.

Permitted pipes

SANHA® RefHP® fittings are compatible with all four CuFe pipe types available on the market, offering a high degree of flexibility:

- | KME – CL12
- | HALCOR – TALOS XS
- | Wieland – K65
- | Mueller – XHP

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
Poland	KDWU
Worldwide	UL