

Essen, 08.04.2020

## Declaration of Compliance 2.1

acc. to EN 10204:2004

for

## SANHA Ref HP High Pressure Fittings

We hereby declare that SANHA Ref HP High Pressure Fittings for capillary brazing for piping made of CuFe2P fulfill the following prerequisites:

- 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

### Areas of application

Piping in refrigeration systems with maximum allowable operating pressures (PS) of up to 130 bar and a maximum allowable temperature (TS) of up to 150 °C (other pressure levels on request) for fluids group 2 according to the European Pressure Equipment Directive (PED 97/23/EC).

## **Quality Management**

SANHA GmbH & Co KG and related companies are controlled by a Quality Management System compliant with ISO EN 9001:2008, certificate number 321242 QM08, issued and periodically audited by DQS GmbH.

## **Processing and installation**

Fittings and pipes have to be connected by using hard solder wire with at least 5 % Ag according to EN ISO 17672 (SANHA article number 84938). We also recommend the use of hard soldering flux type FH 10 (SANHA article number 84948) for connections with materials as defined in prEN 1412 (except numbers 000 and 400).

The processing of the fittings must be carried out with respect to all relevant applicable technical rules and codes, especially all requirements mentioned in DIN EN 378-2 "Refrigerating systems and heat pumps.

## **Marking of the fittings**

SANHA Ref HP High Pressure Fittings are engraved with „SA CuFe“ as well as the dimension.

## **Reference of the supervisor: KH**

Geert Van den Abbeele

Manager R & D, Product Management

**SANHA GmbH & Co. KG**



## Product overview for which this DoC applies

Article Nr.	Catalogue Nr.	Description	Dimension
129001A38	29001a	SANHA Ref HP Bend 90° 1M	3/8
129001A12	29001a	SANHA Ref HP Bend 90° 1M	1/2
129001A58	29001a	SANHA Ref HP Bend 90° 1M	5/8
129001A34	29001a	SANHA Ref HP Bend 90° 1M	3/4
129001A78	29001a	SANHA Ref HP Bend 90° 1M	7/8
129001A118	29001a	SANHA Ref HP Bend 90° 1M	1 1/8
129001A138	29001a	SANHA Ref HP Bend 90° 1M	1 3/8
129001A158	29001a	SANHA Ref HP Bend 90° 1M	1 5/8
129002A38	29002a	SANHA Ref HP Bend 90° 2M	3/8
129002A12	29002a	SANHA Ref HP Bend 90° 2M	1/2
129002A58	29002a	SANHA Ref HP Bend 90° 2M	5/8
129002A34	29002a	SANHA Ref HP Bend 90° 2M	3/4
129002A78	29002a	SANHA Ref HP Bend 90° 2M	7/8
129002A118	29002a	SANHA Ref HP Bend 90° 2M	1 1/8
129002A138	29002a	SANHA Ref HP Bend 90° 2M	1 3/8
129002A158	29002a	SANHA Ref HP Bend 90° 2M	1 5/8
12904034	29040	SANHA Ref HP Bend 45° 1M	3/4
12904078	29040	SANHA Ref HP Bend 45° 1M	7/8
129040118	29040	SANHA Ref HP Bend 45° 1M	1 1/8
129040138	29040	SANHA Ref HP Bend 45° 1M	1 3/8
129040158	29040	SANHA Ref HP Bend 45° 1M	1 5/8
12904134	29041	SANHA Ref HP Bend 45° 2M	3/4
12904178	29041	SANHA Ref HP Bend 45° 2M	7/8

<b>129041118</b>	29041	SANHA Ref HP Bend 45° 2M	1 1/8
<b>129041138</b>	29041	SANHA Ref HP Bend 45° 2M	1 3/8
<b>129041158</b>	29041	SANHA Ref HP Bend 45° 2M	1 5/8

<b>Article Nr.</b>	<b>Catalogue Nr.</b>	<b>Description</b>	<b>Dimension</b>
<b>12913038</b>	29130	SANHA Ref HP Tee	3/8
<b>12913012</b>	29130	SANHA Ref HP Tee	1/2
<b>12913058</b>	29130	SANHA Ref HP Tee	5/8
<b>12913034</b>	29130	SANHA Ref HP Tee	3/4
<b>12913078</b>	29130	SANHA Ref HP Tee	7/8
<b>129130118</b>	29130	SANHA Ref HP Tee	1 1/8
<b>129130138</b>	29130	SANHA Ref HP Tee	1 3/8
<b>129130158</b>	29130	SANHA Ref HP Tee	1 5/8
<b>129130123838</b>	29130	SANHA Ref HP Tee	1/2 x 3/8 x 3/8
<b>129130121238</b>	29130	SANHA Ref HP Tee	1/2 x 1/2 x 3/8
<b>129130581212</b>	29130	SANHA Ref HP Tee	5/8 x 1/2 x 1/2
<b>129130585838</b>	29130	SANHA Ref HP Tee	5/8 x 5/8 x 3/8
<b>129130585812</b>	29130	SANHA Ref HP Tee	5/8 x 5/8 x 1/2
<b>129130343458</b>	29130	SANHA Ref HP Tee	3/4 x 3/4 x 5/8
<b>129130787834</b>	29130	SANHA Ref HP Tee	7/8 x 7/8 x 3/4
<b>1291301187812</b>	29130	SANHA Ref HP Tee	1 1/8 x 7/8 x 1/2
<b>12913011811878</b>	29130	SANHA Ref HP Tee	1 1/8 x 1 1/8 x 7/8
<b>12913013813878</b>	29130	SANHA Ref HP Tee	1 3/8" x 1 3/8" x 7/8
<b>129130138138118</b>	29130	SANHA Ref HP Tee	1 3/8 x 1 3/8 x 1 1/8
<b>129130158158138</b>	29130	SANHA Ref HP Tee	1 5/8 x 1 5/8 x 1 3/8

<b>129130341434</b>	29130	SANHA Ref HP Tee	3/4" x 1/4" x 3/4"
<b>129130781478</b>	29130	SANHA Ref HP Tee	7/8" x 1/4" x 7/8"
<b>1291307814118</b>	29130	SANHA Ref HP Tee	7/8" x 1/4" x 1 1/8"
<b>12913011814118</b>	29130	SANHA Ref HP Tee	1 1/8" x 1/4" x 1 1/8"
<b>12913013814138</b>	29130	SANHA Ref HP Tee	1 3/8" x 1/4" x 1 3/8"
<b>12913015814158</b>	29130	SANHA Ref HP Tee	1 5/8" x 1/4" x 1 5/8"
<b>129130345834</b>	29130	SANHA Ref HP Tee	3/4" x 5/8" x 3/4"
<b>129130783478</b>	29130	SANHA Ref HP Tee	7/8" x 3/4" x 7/8"
<b>12913011834118</b>	29130	SANHA Ref HP Tee	1 1/8" x 3/4" x 1 1/8"
<b>12913011878118</b>	29130	SANHA Ref HP Tee	1 1/8" x 7/8" x 1 1/8"
<b>12913013834138</b>	29130	SANHA Ref HP Tee	1 3/8" x 3/4" x 1 3/8"
<b>12913013878138</b>	29130	SANHA Ref HP Tee	1 3/8" x 7/8" x 1 3/8"
<b>129130138118138</b>	29130	SANHA Ref HP Tee	1 3/8" x 1 1/8" x 1 3/8"
<b>129130158118158</b>	29130	SANHA Ref HP Tee	1 5/8" x 1 1/8" x 1 5/8"
<b>129130158138158</b>	29130	SANHA Ref HP Tee	1 5/8" x 1 3/8" x 1 5/8"

<b>Article Nr.</b>	<b>Catalogue Nr.</b>	<b>Description</b>	<b>Dimension</b>
<b>1292431238</b>	29243	SANHA Ref HP Reduction	1/2 x 3/8
<b>1292435838</b>	29243	SANHA Ref HP Reduction	5/8 x 3/8
<b>1292435812</b>	29243	SANHA Ref HP Reduction	5/8 x 1/2
<b>1292433438</b>	29243	SANHA Ref HP Reduction	3/4 x 3/8
<b>1292433412</b>	29243	SANHA Ref HP Reduction	3/4 x 1/2
<b>1292433458</b>	29243	SANHA Ref HP Reduction	3/4 x 5/8
<b>1292437838</b>	29243	SANHA Ref HP Reduction	7/8 x 3/8

1292437858	29243	SANHA Ref HP Reduction	7/8 x 5/8
1292437834	29243	SANHA Ref HP Reduction	7/8 x 3/4
12924311858	29243	SANHA Ref HP Reduction	1 1/8 x 5/8
12924311834	29243	SANHA Ref HP Reduction	1 1/8 x 3/4
12924311878	29243	SANHA Ref HP Reduction	1 1/8 x 7/8
129243138118	29243	SANHA Ref HP Reduction	1 3/8 x 1 1/8
129243158138	29243	SANHA Ref HP Reduction	1 5/8 x 1 3/8
12927038	29270	SANHA Ref HP Coupling	3/8
12927012	29270	SANHA Ref HP Coupling	1/2
12927058	29270	SANHA Ref HP Coupling	5/8
12927034	29270	SANHA Ref HP Coupling	3/4
12927078	29270	SANHA Ref HP Coupling	7/8
129270118	29270	SANHA Ref HP Coupling	1 1/8
129270138	29270	SANHA Ref HP Coupling	1 3/8
129270158	29270	SANHA Ref HP Coupling	1 5/8
12930138	29301	SANHA Ref HP End cap	3/8"
12930112	29301	SANHA Ref HP End cap	1/2
12930158	29301	SANHA Ref HP End cap	5/8
12930134	29301	SANHA Ref HP End cap	3/4
12930178	29301	SANHA Ref HP End cap	7/8
129301118	29301	SANHA Ref HP End cap	1 1/8
129301138	29301	SANHA Ref HP End cap	1 3/8
129301158	29301	SANHA Ref HP End cap	1 5/8

Article Nr.	Catalogue Nr.	Description	Dimension
129243IM1212	29243IM	SANHA Ref HP Reduction	1/2 x 12

<b>129243IM5815</b>	29243IM	SANHA Ref HP Reduction	5/8 x 15
<b>129243IM3418</b>	29243IM	SANHA Ref HP Reduction	3/4 x 18
<b>129243IM7822</b>	29243IM	SANHA Ref HP Reduction	7/8 x 22
<b>129243IM11828</b>	29243IM	SANHA Ref HP Reduction	1 1/8 x 28
<b>129243IM13835</b>	29243IM	SANHA Ref HP Reduction	1 3/8 x 35
<b>129243IM15842</b>	29243IM	SANHA Ref HP Reduction	1 5/8 x 42
<b>129243IM3412</b>	29243IM	SANHA Ref HP Reduction	3/4" x 12
<b>129243IM5812</b>	29243IM	SANHA Ref HP Reduction	5/8" x 12
<b>129243IM13828</b>	29243IM	SANHA Ref HP Reduction	1 3/8" x 28
<b>129243IM3410</b>	29243IM	SANHA Ref HP Reduction	3/4" x 10
<b>129243IM5810</b>	29243IM	SANHA Ref HP Reduction	5/8" x 10
<b>129243IM1210</b>	29243IM	SANHA Ref HP Reduction	1/2" x 10