



## Product certificate K45332/09

Issued 2022-06-01

Replaces K45332/08

Page 1 of 5

### Compression fittings

#### STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

### IDC Plumbing & Heating Technology (Beijing) Ltd.

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-K639 "Fittings with compression ends for use with copper tubes" dated 01-10-2019

which covers the requirements of

EN 1254: "Copper and copper alloys – Plumbing fittings"  
and particularly,

Part 2: Fittings with compression ends for use with copper tubes, and

Part 4: Fittings combining other end connections with capillary or compression ends.

Ron Scheepers  
Kiwa

*Publication of this certificate is allowed.*

*Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

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**Certification process  
consists of initial and  
regular assessment of:**

- quality system
- product

Compression fittings

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**PRODUCT SPECIFICATION**

The products mentioned below belong to this product certificate

productcode	description	size
20103030030100	<b>coupler C x C</b>	10
20104040030100		12
20106060030100		15
20108080030100		18
20109090030100		22
20110100030100		28
20104030030100	<b>coupler C x C reducing</b>	12 x 10
20106030030100		15 x 10
20106040030100		15 x 12
20108060030100		18 x 15
20109060030100		22 x 15
20110090030100		28 x 22
20103010030200	<b>coupler C x M*</b>	10 x ¼
20103020030200		10 x ⅜
20103030030200		10 x ½
20104010030200		12 x ¼
20104020030200		12 x ⅜
20104030030200		12 x ½
20106010030200		15 x ¼
20106020030200		15 x ⅜
20106030030200		15 x ½
20106040030200		15 x ¾
20108030030200		18 x ½
20108040030200		18 x ¾
20109030030200		22 x ½
20109040030200		22 x ¾
20109050030200		22 x 1
20110040030200		28 x ¾
20110050030200		28 x 1
20103010030300	<b>coupler C x F*</b>	10 x ¼
20103020030300		10 x ⅜
20103030030300		10 x ½
20104010030300		12 x ¼
20104020030300		12 x ⅜
20104030030300		12 x ½
20106010030300		15 x ¼
20106020030300		15 x ⅜
20106030030300		15 x ½
20106040030300		15 x ¾
20108030030300		18 x ½
20108040030300		18 x ¾
20109030030300		22 x ½
20109040030300		22 x ¾
20109050030300		22 x 1
20110040030300		28 x ¾
20110050030300		28 x 1

## Compression fittings

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20103030040100	<b>elbow C x C</b>	10
20104040040100		12
20106060040100		15
20108080860100		18
20108080040100		22
20110100040100		28
20104030040100	<b>elbow C x C reducing</b>	12 x 10
20106030040100		15 x 10
20106040040100		15 x 12
20109060040100		22 x 15
20110090040100		28 x 22
20103020040200	<b>elbow C x M*</b>	10 x $\frac{3}{8}$
20104030040200		10 x $\frac{1}{2}$
20104020040200		12 x $\frac{3}{8}$
20104030040200		12 x $\frac{1}{2}$
20106020040200		15 x $\frac{3}{8}$
20106030040200		15 x $\frac{1}{2}$
20106040040200		15 x $\frac{3}{4}$
20108030040200		18 x $\frac{1}{2}$
20108040040200		18 x $\frac{3}{4}$
20109040040200		22 x $\frac{3}{4}$
20109050040200		22 x 1
20110050040200		28 x 1
20103020040300	<b>elbow C x F*</b>	10 x $\frac{3}{8}$
20103030040300		10 x $\frac{1}{2}$
20104020040300		12 x $\frac{3}{8}$
20104030040300		12 x $\frac{1}{2}$
20106020040300		15 x $\frac{3}{8}$
20106030040300		15 x $\frac{1}{2}$
20106040040300		15 x $\frac{3}{4}$
20108030040300		18 x $\frac{1}{2}$
20108040040300		18 x $\frac{3}{4}$
20109030040300		22 x $\frac{1}{2}$
20109040040300		22 x $\frac{3}{4}$
20109050040300		22 x 1
20110040040300		28 x $\frac{3}{4}$
20110050040300		28 x 1
20103030360100	<b>Tee equal</b>	10
20104040460100		12
20106060660100		15
20106060660135		15
20108080860100		18 x 18 x 18
20109090960100		22
20110101060100		28
20104040360100	<b>Tee (branch deflecting)</b>	12 x 12 x 10
20104040660100		12 x 15 x 12
20106060360100		15 x 15 x 10
20106060460100		15 x 15 x 12
20106060960100		15 x 15 x 22
20108080660100		18 x 18 x 15
20108060660100	<b>Tee (branch deflecting continued)</b>	22 x 15 x 15

Compression fittings

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20109090660100		22 x 22 x 15
20110100660100		28 x 28 x 15
20110100960100		28 x 28 x 22
30141210116		10 x $\frac{3}{8}$ x $\frac{3}{8}$
20109090361700		22 x 22 x $\frac{1}{2}$
20109090461700		22 x 22 x $\frac{3}{4}$
20110100361700		28 x 28 x $\frac{1}{2}$
20110100561700		28 x 28 x 1
20103000032300	<b>End stop</b>	10
20104000032300		12
20106000032300		15
20109000032300		22
20110000032300		28
20106030030125	<b>Swivel coupler C x F*</b>	15 x $\frac{1}{2}$
20109040030125		22 x $\frac{3}{4}$
20106030040125	<b>Swivel elbow C x F*</b>	15 x $\frac{1}{2}$
20106030040132	<b>Wall plate*</b>	15 x $\frac{1}{2}$
20109040040132		22 x $\frac{3}{4}$

## Compression fittings

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### Fitness for contact with drinking water

This product is approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" dated 01-07-2017 ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"), published in the Government Gazette).

These hygienic aspects are based on two main criteria. The product shall permanently comply with:

- The product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa approval procedure for the hygienic aspects;
- Specific product requirements for the hygienic aspects.


The recipe and specific product requirements are laid down in the for confidentiality reasons undisclosed 'appendix hygienic aspects' to this certificate.

### MARKING

The Kiwa®-mark products are marked with the wordmark "KIWA" together with  or the abbreviated wordmark .

- on the fitting

Compulsory specifications:

- manufacturers name or mark , on the body and coupling nut;
- nominal size: on the coupling nut

Method of marking:

- Non-erasable;
- visible after assembly.

### APPLICATION AND USE

The fittings with compression ends are being used to connect copper pipes, according to the Kiwa evaluation guideline BRL-K760, in tap water and gas installations and in heating installations. The tightening is achieved by a compression or cutting ring or forming of the tube at its end, without making use of soldering material or screw thread on the copper tube.

The fittings can also be applied underground in areas where no pollution of the soil has been found.

For the application in tap-water installations a maximum working pressure of 1000 kPa and a maximum water temperature of 90°C is applicable.

#### Remark

This evaluation guideline in principle not applicable for compression fittings in combination with annealed copper pipes.

Compression fittings in combination with annealed copper pipes in some cases will require an internal support. After mounting the presence of this internal support cannot be determined. This hinders inspection on the aspect of workmanship.

In case the manufacturer decides to deliver its fittings for the use in combination with all kinds of copper tube, all fittings shall be delivered with an internal support. At the same time the use of compression fittings in combination with hard copper tube hair cracks can appear in case of forming the tube's end.

### RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- IDC Plumbing & Heating Technology (Beijing) Ltd.
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.