



Product certificate K6379/08

Issued 2020-12-01

Replaces K6379/07

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Fittings with compression ends for use with copper pipes

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

Flowflex Components Limited

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 "Compression fittings for joints for copper pipes" dated 01-10-2019,

which covers the requirements of

EN 1254: 1998: "Copper and copper alloys - Plumbing fittings: Part 2: Fittings with compression ends for use with copper tubes".

EN 1254: 1998 "Copper and copper Alloys - 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 in order to ensure that this certificate is still valid.

CERTIFICATE

28/11/2011

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Certification process
consists of initial and
regular assessment of:

- quality system
- product

Fittings with compression ends for use with copper pipes

PRODUCT SPECIFICATION

The products mentioned below belong to this certificate and can be delivered under the following brand names:

- FLOWFLEX
- LAMONTITE
- OPAL
- WOLSELEY

168 - Reducing set

The products referred to below may be used with the other types and models mentioned in this certificate as a complete fitting only.

12 x 10
15 x 10
15 x 12
22 x 12
22 x 15
28 x 12
28 x 15
28 x 22
35 x 15
35 x 22
35 x 28

701 - Tee

3 sides compression fitting
10 x 10 branch x 10
12 x 12 branch x 12
15 x 15 branch x 15
18 x 18 branch x 18
22 x 22 branch x 22
28 x 28 branch x 28

703 - Tee

3 sides compression
15 x 15 x 12
22 x 22 x 15
28 x 28 x 15
28 x 28 x 22

705 - Tee

3 sides compression
15 x 22 branch x 15
22 x 28 branch x 22

717 - Tee

compression x internal thread x compression (ISO 7)
15 x Rp $\frac{3}{8}$ branch x 15
15 x R $\frac{1}{4}$ branch x 15
15 x Rp $\frac{1}{2}$ branch x 15
15 x BSP $\frac{1}{2}$ branch x 15
22 x Rp $\frac{1}{2}$ branch x 22

801 - Elbow

both sides compression
10 x 10
12 x 10
12 x 12
15 x 10
15 x 12
15 x 15
22 x 15
22 x 22
28 x 15
28 x 28

169 - Blanking disc

12
15
22

702 - Tee

3 sides compression
15 x 12 branch x 15
22 x 15 branch x 22
28 x 15 branch x 28
28 x 22 branch x 28

704 - Tee

3 sides compression
15 x 12 branch x 12
22 x 15 branch x 15
28 x 22 branch x 22

706 - Tee

3 sides compression
28 x 22 branch x 15
28 x 15 branch x 22

802 - Elbow

compression x external thread (ISO 228)
12 x G $\frac{1}{2}$
15 x G $\frac{3}{8}$
15 x G $\frac{1}{2}$
15 x G $\frac{1}{2}$
22 x G $\frac{3}{4}$

Fittings with compression ends for use with copper pipes

PRODUCT SPECIFICATION

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- FLOWFLEX
- LAMONTITE
- OPAL
- WOLSELEY

802T – Elbow

compression x external thread (ISO 7)
 12 x R $\frac{3}{8}$
 12 x R $\frac{1}{2}$
 15 x R $\frac{1}{2}$
 15 x R $\frac{3}{4}$
 22 x R $\frac{3}{4}$
 22 x R 1
 28 x R 1

803WP - Wall plate

compression x internal thread (ISO 228)
 12 x Rp $\frac{1}{2}$
 15 x Rp $\frac{1}{2}$
 15 x Rp $\frac{1}{2}$

901 - Straight fitting

both sides compression
 10 x 10
 12 x 10
 12 x 12
 15 x 10
 15 x 12
 15 x 15
 22 x 15
 22 x 22
 28 x 22
 28 x 28

902T - Straight adaptors

compression x external thread (ISO 7)
 10 x R $\frac{3}{8}$
 10 x R $\frac{1}{2}$
 12 x R $\frac{3}{8}$
 12 x R $\frac{1}{2}$
 15 x R $\frac{1}{4}$
 15 x R $\frac{3}{8}$
 15 x R $\frac{1}{2}$
 22 x R $\frac{1}{2}$
 22 x R $\frac{3}{4}$
 22 x R 1
 28 x R 1

923 - end fitting

12
 15
 22

803 – Elbow

compression x internal thread (ISO 7)
 12 x Rp $\frac{3}{8}$
 12 x Rp $\frac{1}{2}$
 15 x Rp $\frac{1}{2}$
 22 x Rp $\frac{3}{4}$
 28 x Rp 1

902 - Straight adaptors

compression x external thread (ISO 228)
 12 x G $\frac{3}{8}$
 15 x G $\frac{1}{2}$
 22 x G $\frac{3}{4}$
 28 x G 1

903 - Straight adaptors

compression x internal thread (ISO 7)
 10 x Rp $\frac{3}{8}$
 10 x Rp $\frac{1}{2}$
 12 x Rp $\frac{3}{8}$
 12 x Rp $\frac{1}{2}$
 15 x Rp $\frac{3}{8}$
 15 x Rp $\frac{1}{2}$
 15 x Rp $\frac{3}{4}$
 22 x Rp $\frac{1}{2}$
 22 x Rp $\frac{3}{4}$

Fittings with compression ends for use with copper pipes

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" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation") dated 01-07-2017; 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 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 application in tap water installations, a maximum working pressure of 1000 kPa and a maximum water temperature of 90°C applies.

Remark

This evaluation guideline is 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:

- Flowflex Components Limited
- and, if necessary,
- Kiwa Nederland B.V.

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