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Product Certificate

## Compression fittings

Based on pre-certification tests as well as periodic inspections by Kiwa Nederland B.V., the products referred to in this certificate and marked with the GASTEC QA mark, supplied by

## Aalberts integrated piping systems B.V.

may, on delivery, be relied upon to comply with the GASTEC QA Approval Requirements 214, for "Fitness for admixtures up to and including 100% hydrogen gas" dated September 2022.

Ron Scheepers  
Kiwa

This certificate is issued by Kiwa Nederland B.V. in conjunction with the KIWA regulations for Certification 2017.

This certificate consists of 5 pages.  
Publication of the certificate is allowed.

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## Compression fittings

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### PRODUCT SPECIFICATION

#### Compression fitting

Sealing by a compression ring, singular or as a single transition coupler.

Use: joining copper pipes according to GASTEC QA approval requirement 5, quality half hard

Material:

- Brass or DZR
- Nickel plated of sizes 10, 12, 15, 22 and 28 mm

#### S 1200: Straight compression fitting

10  
12  
15  
22  
28  
35  
42  
54

#### S 1201: Straight compression fitting

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

#### S 1202: Straight compression fitting

R  $\frac{3}{8}$  x 12  
R  $\frac{1}{2}$  x 12  
R  $\frac{3}{8}$  x 15  
R  $\frac{1}{2}$  x 15  
R  $\frac{3}{4}$  x 15  
R  $\frac{1}{2}$  x 22  
R  $\frac{3}{4}$  x 22  
R 1 x 22  
R  $\frac{3}{4}$  x 28  
R 1 x 28

#### S 1204: Straight compression fitting

Rp  $\frac{3}{8}$  x 12  
Rp  $\frac{1}{2}$  x 12  
Rp  $\frac{3}{8}$  x 15  
Rp  $\frac{1}{2}$  x 15  
Rp  $\frac{3}{4}$  x 15  
Rp  $\frac{1}{2}$  x 22  
Rp  $\frac{3}{4}$  x 22  
Rp 1 x 22  
Rp 1 x 28

#### S 1206: End cap compression fitting

12  
15  
22  
28  
35

#### S 1208: Repair fitting

15  
22

#### S 1210: elbow compression fitting

10  
12  
15  
22  
28  
35  
42  
54

#### S 1211: elbow compression fitting

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

#### S 1212: Elbow compression fitting

R  $\frac{3}{8}$  x 12  
R  $\frac{1}{2}$  x 15  
R  $\frac{3}{4}$  x 22  
R 1 x 28

#### S 1225: Tee compression fitting x R

15 x R  $\frac{1}{2}$  x 15  
22 x R  $\frac{1}{2}$  x 22

#### S 1226: Tee compression fitting x R

15 x 15 x R  $\frac{1}{2}$

#### S 1240: Wall plate

Rp  $\frac{1}{2}$  x 15 DZR

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### S 1214: Elbow compression fitting

Rp  $\frac{3}{8}$  x 12  
Rp  $\frac{1}{2}$  x 12  
Rp  $\frac{3}{8}$  x 15  
Rp  $\frac{1}{2}$  x 15  
Rp  $\frac{3}{4}$  x 15  
Rp  $\frac{1}{2}$  x 22  
Rp  $\frac{3}{4}$  x 22  
Rp 1 x 22  
Rp 1 x 28

### S 1220: Tee compression fitting

12  
15  
22  
28

### S 1223: Tee compression fitting

15 x Rp  $\frac{1}{4}$  x 15  
15 x Rp  $\frac{1}{2}$  x 15  
22 x Rp  $\frac{3}{8}$  x 22  
22 x Rp  $\frac{1}{2}$  x 22  
22 x Rp  $\frac{3}{4}$  x 22

### S 1221: Tee compression fitting

15 x 12 x 15  
12 x 15 x 12  
22 x 12 x 22  
15 x 22 x 15  
22 x 15 x 22  
22 x 22 x 15  
28 x 15 x 28  
28 x 15 x 22  
28 x 22 x 15  
28 x 22 x 28  
28 x 28 x 15  
28 x 28 x 22  
15 x 12 x 12  
15 x 15 x 12  
22 x 15 x 15  
22 x 22 x 15  
22 x 28 x 22  
28 x 22 x 22  
22 x 15 x 12

### S 1224: Tee compression fitting x Rp

15 x 15 x Rp  $\frac{1}{2}$   
22 x 22 x Rp  $\frac{1}{2}$   
22 x 22 x Rp  $\frac{3}{4}$

### S 1268: Single reducer

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 22  
35 x 28  
42 x 22  
42 x 28  
42 x 35  
54 x 35  
54 x 42

### Compression fitting Project.

Sealing by a compression ring

Use: joining copper pipes according to GASTEC QA approval requirement 5, quality half hard

Material: Brass

### KU 2000: Straight compression fitting

12  
15  
22  
28

### KU 2001: Straight compression fitting

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

### KU 2002: straight compression fitting

R  $\frac{3}{8}$  x 12  
R  $\frac{1}{2}$  x 15  
R  $\frac{3}{4}$  x 15  
R  $\frac{1}{2}$  x 22  
R  $\frac{3}{4}$  x 22  
R1 x 22  
R1 x 28

### KU 2004: Straight compression fitting

Rp  $\frac{3}{8}$  x 12  
Rp  $\frac{1}{2}$  x 12  
Rp  $\frac{3}{8}$  x 15  
Rp  $\frac{1}{2}$  x 15  
Rp  $\frac{3}{4}$  x 15  
Rp  $\frac{1}{2}$  x 22  
Rp  $\frac{3}{4}$  x 22  
Rp 1 x 22

### KU 2006: End cap compression fitting

12  
15  
22  
28

### KU 2010: Elbow compression fitting

12  
15  
22  
28

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## Compression fittings

KU 2011: Elbow compression fitting

15 x 10  
15 x 12  
28 x 22

KU 2012: Elbow compression fitting

R 1/2 x 15  
R 3/8 x 12  
R 3/4 x 15  
R 1 x 22  
R 3/4 x 22

KU 2014: Elbow compression fitting

Rp 1/2 x 15  
Rp 3/4 x 22  
Rp 3/4 x 15  
Rp 1 x 22

KU 2020: Tee compression fitting

12  
15  
22  
28

KU 2021: Tee compression fitting

22 x 15 x 15  
22 x 15 x 22  
22 x 22 x 15  
12 x 15 x 12  
15 x 12 x 12  
15 x 12 x 15  
15 x 15 x 12  
15 x 22 x 15  
28 x 15 x 28  
28 x 22 x 28

KU 2068: Reducer compression fitting

15 x 12  
22 x 15  
28 x 22

KU 2024: Tee compression fitting

15 x 15 x Rp 1/2

KU 2025: Wall plate

Rp 1/2 x 15

### Uitvoering DZR

KU 2002: Straight compression fitting

R 3/8 x 15

KU 2011: Elbow compression fitting

22 x 15

KU 2023: Tee compression fitting

15 x Rp 1/2 x 15  
22 x Rp 1/2 x 22

KU 2024: Tee compression fitting

22 x 22 x Rp 1/2

### Specific Belgium Compression fitting

Sealing by a compression ring with stroke limitation

Use: joining copper pipes according to GASTEC QA approval requirement 5, quality half hard

Material: Brass DZR brass

Male thread can be supplied with an external sealing

G 1200: Straight compression fitting

12  
15  
22  
28

G 1201: Straight compression fitting

22 x 15  
28 x 22

G 1202: Straight compression fitting

R 1/2 x 12  
R 1/2 x 15  
R 3/4 x 22  
R 1 x 22  
R 1 x 28

G 1204: Straight compression fitting

Rp 1/2 x 12  
Rp 1/2 x 15  
Rp 3/4 x 22  
Rp 1 x 22  
Rp 1 x 28

G 1210: Elbow compression fitting

12  
15  
22  
28

G 1211: Elbow compression fitting

22 x 15  
28 x 22

G 1212: Elbow compression fitting

R 1/2 x 15  
R 3/4 x 22

G 1214: Elbow compression fitting

Rp 1/2 x 15  
Rp 3/4 x 22  
Rp 1 x 22  
Rp 1 x 28

G 1220: Tee compression fitting

12  
15  
22  
28

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## Compression fittings

G 1221: Tee compression fitting

15 x 22 x 15  
22 x 15 x 22  
28 x 15 x 28  
22 x 15 x 15  
22 x 22 x 15  
28 x 22 x 22

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### APPLICATION AND USE

The products are intended to be applied as gas distribution and installation materials for natural gas with an admixture of 20% hydrogen gas and pure hydrogen gas. The maximum operating pressure (MOP) and operating temperature are specified in the approval requirement for the product for GASTEC QA certification.

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### MARKING

- GASTEC QA, GASTEC QA logo, trademark or punch mark. This also applies to inserts.
- Manufacturer's identity symbol or trademark
- If practicable nominal diameter
- Number and part of standard: EN 1254-2
- Inserts are marked with diameter x wall thickness.

Fittings manufactured from dezincification resistant copper-zinc alloys shall be legibly and durably marked in accordance with either:

- a) for grade A material use symbol QI or characters DRA;  
b) for grade B material, use characters DRB.

- The words 'Bestand tegen waterstofgas' or 'Hydrogen ready'
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### RECOMMENDATIONS FOR END USERS

Check at the time of delivery whether:

- the producer 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.

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

Check whether this certificate is still valid by consulting Kiwa Nederland B.V. or the Kiwa website.

If you should reject a product on the basis of the above, please contact the supplier and, if necessary, Kiwa Nederland B.V.

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