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Product Certificate

## Compression fittings for joining copper pipes

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

### General Fittings S.p.A.

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" from 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 6 pages.  
Publication of the certificate is allowed.

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## Compression fittings for joining copper pipes

### PRODUCT SPECIFICATION

Compression fittings provided in either CW612N or CW617N.

1N00.00 Double straight compression fitting:  
compression x compression

10 mm	22 mm
12 mm	28 mm
14 mm*	35 mm
15 mm	42 mm
16 mm*	54 mm
18 mm*	

1N00.00 Double straight compression fitting Tin plated:  
compression x compression

10 mm	22 mm
12 mm	28 mm
14 mm	35 mm
15 mm	42 mm
16 mm	54 mm
18 mm	

1N00.01 Male straight compression fitting:  
compression x conical outer thread

R ¼ x 10 mm	R ¾ x 14 mm*
R ¼ x 15 mm	R ¾ x 15 mm
R ⅜ x 10 mm	R ¾ x 16 mm*
R ⅜ x 12 mm	R ¾ x 18 mm*
R ⅜ x 15 mm	R ¾ x 22 mm
R ½ x 10 mm	R ¾ x 28 mm
R ½ x 12 mm	R 1 x 22 mm
R ½ x 14 mm*	R 1 x 28 mm
R ½ x 15 mm	R 1¼ x 35 mm
R ½ x 16 mm*	R 1½ x 42 mm
R ½ x 18 mm*	R 2 x 54 mm
R ½ x 22 mm	

1N00.01 Male straight compression fitting Tin plated:  
compression x conical outer thread

R ¼ x 10 mm	R ¾ x 14 mm*
R ¼ x 15 mm	R ¾ x 15 mm
R ⅜ x 10 mm	R ¾ x 16 mm*
R ⅜ x 12 mm	R ¾ x 18 mm*
R ⅜ x 15 mm	R ¾ x 22 mm
R ½ x 10 mm	R ¾ x 28 mm
R ½ x 12 mm	R 1 x 22 mm
R ½ x 14 mm*	R 1 x 28 mm
R ½ x 15 mm	R 1¼ x 35 mm
R ½ x 16 mm*	R 1½ x 42 mm
R ½ x 18 mm*	R 2 x 54 mm
R ½ x 22 mm	

1N00.02 Female straight compression fitting:  
compression x straight inner thread

Rp ¼ x 10 mm	Rp ¾ x 14 mm*
Rp ⅜ x 10 mm	Rp ¾ x 15 mm
Rp ⅜ x 12 mm	Rp ¾ x 16 mm*
Rp ⅜ x 15 mm	Rp ¾ x 18 mm*
Rp ½ x 10 mm	Rp ¾ x 22 mm
Rp ½ x 12 mm	Rp 1 x 22 mm
Rp ½ x 14 mm*	Rp 1 x 28 mm
Rp ½ x 15 mm	Rp 1¼ x 35 mm
Rp ½ x 16 mm*	Rp 1½ x 42 mm
Rp ½ x 18 mm*	Rp 2 x 54 mm
Rp ½ x 22 mm	

1N00.02 Female straight compression fitting Tin plated:  
compression x straight inner thread

Rp ¼ x 10 mm	Rp ¾ x 14 mm*
Rp ⅜ x 10 mm	Rp ¾ x 15 mm
Rp ⅜ x 12 mm	Rp ¾ x 16 mm*
Rp ⅜ x 15 mm	Rp ¾ x 18 mm*
Rp ½ x 10 mm	Rp ¾ x 22 mm
Rp ½ x 12 mm	Rp 1 x 22 mm
Rp ½ x 14 mm*	Rp 1 x 28 mm
Rp ½ x 15 mm	Rp 1¼ x 35 mm
Rp ½ x 16 mm*	Rp 1½ x 42 mm
Rp ½ x 18 mm*	Rp 2 x 54 mm
Rp ½ x 22 mm	

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1N00.03 Reduced straight compression fitting:  
compression x compression

10 x 12 mm	22 x 28 mm
10 x 15 mm	15 x 35 mm
12 x 15 mm	22 x 35 mm
15 x 18 mm*	28 x 35 mm
15 x 22 mm	

1N00.08 Side female Tee compression fitting:  
Straight inner thread x compression x compression

Rp ½ x 15 x 15 mm
Rp ½ x 22 x 22 mm
Rp ¾ x 22 x 22 mm

1N00.09 Tee elbow compression fitting:  
Compression x compression x compression

15 x 15 x 15 mm
22 x 22 x 22 mm
22 x 22 x 15 mm
22 x 15 x 15 mm

1N00.10 Tee compression fitting:  
Compression x compression x compression

10 mm	22 mm
12 mm	28 mm
14 mm*	35 mm
15 mm	42 mm
16 mm*	54 mm
18 mm*	

1N00.12 Female Tee compression fitting:  
compression x straight inner thread x compression

12 x Rp ½ x 12 mm	16 x Rp ¾ x 16 mm*
14 x Rp ½ x 14 mm*	18 x Rp ½ x 18 mm*
14 x Rp ¾ x 14 mm*	18 x Rp ¾ x 18 mm*
15 x Rp ¼ x 15 mm	22 x Rp ½ x 22 mm
15 x Rp ⅝ x 15 mm	22 x Rp ¾ x 22 mm
15 x Rp ½ x 15 mm	28 x Rp ½ x 28 mm
15 x Rp ¾ x 15 mm	28 x Rp ¾ x 28 mm
16 x Rp ½ x 16 mm*	

1N00.03 Reduced straight compression fitting Tin plated:  
compression x compression

10 x 12 mm	22 x 28 mm
10 x 15 mm	15 x 35 mm
12 x 15 mm	22 x 35 mm
15 x 18 mm*	28 x 35 mm
15 x 22 mm	

1N00.08 Side female Tee compression fitting Tin plated:  
Straight inner thread x compression x compression

Rp ½ x 15 x 15 mm
Rp ½ x 22 x 22 mm
Rp ¾ x 22 x 22 mm

1N00.09 Tee elbow compression fitting Tin plated:  
Compression x compression x compression

15 x 15 x 15 mm
22 x 22 x 22 mm
22 x 22 x 15 mm
22 x 15 x 15 mm

1N00.10 T-compression fitting Tin plated:  
Compression x compression x compression

10 mm	22 mm
12 mm	28 mm
14 mm*	35 mm
15 mm	42 mm
16 mm*	54 mm
18 mm*	

1N00.12 Female Tee compression fitting Tin plated:  
compression x straight inner thread x compression

12 x Rp ½ x 12 mm	16 x Rp ¾ x 16 mm*
14 x Rp ½ x 14 mm*	18 x Rp ½ x 18 mm*
14 x Rp ¾ x 14 mm*	18 x Rp ¾ x 18 mm*
15 x Rp ¼ x 15 mm	22 x Rp ½ x 22 mm
15 x Rp ½ x 15 mm	22 x Rp ¾ x 22 mm
15 x Rp ¾ x 15 mm	28 x Rp ½ x 28 mm
15 x Rp 3/8 x 15 mm	28 x Rp ¾ x 28 mm
16 x Rp ½ x 16 mm*	

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1N00.13 Reduced Tee compression fitting:  
compression x compression x compression

12 x 15 x 12 mm	28 x 15 x 22 mm
15 x 12 x 12 mm	28 x 28 x 22 mm
15 x 15 x 12 mm	28 x 22 x 15 mm
15 x 12 x 15 mm	28 x 22 x 28 mm
18 x 15 x 18 mm*	28 x 28 x 15 mm
15 x 22 x 15 mm	28 x 22 x 22 mm
22 x 15 x 15 mm	28 x 15 x 28 mm
22 x 22 x 15 mm	35 x 15 x 35 mm
22 x 15 x 22 mm	35 x 22 x 35 mm
22 x 18 x 22 mm*	35 x 28 x 35 mm
22 x 28 x 22 mm	

1N00.17 Side male Tee compression fitting:  
Conical outer thread x compression x compression

R ½ x 15 x 15 mm  
R ¾ x 22 x 22 mm  
R 1 x 22 x 22 mm  
R 1 x 28 x 28 mm

1N00.20 Double elbow compression fitting:  
Compression x compression

10 mm	22 mm
12 mm	28 mm
14 mm*	35 mm
15 mm	42 mm
16 mm*	54 mm
18 mm*	

1N00.21 Male elbow compression fitting:  
compression x conical outer thread

R ¼ x 12 mm	R ¾ x 14 mm*
R ¾ x 10 mm	R ¾ x 15 mm
R ¾ x 12 mm	R ¾ x 16 mm*
R ¾ x 15 mm	R ¾ x 18 mm*
R ½ x 10 mm	R ¾ x 22 mm
R ½ x 12 mm	R ¾ x 28 mm
R ½ x 14 mm*	R 1 x 22 mm
R ½ x 15 mm*	R 1 x 28 mm
R ½ x 16 mm*	R 1¼ x 35 mm
R ½ x 18 mm*	R 1½ x 42 mm
R ½ x 22 mm	R 2 x 54 mm
R ¾ x 12 mm	

1N00.13 Reduced Tee compression fitting Tin plated:  
compression x compression x compression

12 x 15 x 12 mm	28 x 15 x 22 mm
15 x 12 x 12 mm	28 x 28 x 22 mm
15 x 15 x 12 mm	28 x 22 x 15 mm
15 x 12 x 15 mm	28 x 22 x 28 mm
18 x 15 x 18 mm*	28 x 28 x 15 mm
15 x 22 x 15 mm	28 x 22 x 22 mm
22 x 15 x 15 mm	28 x 15 x 28 mm
22 x 22 x 15 mm	35 x 15 x 35 mm
22 x 15 x 22 mm	35 x 22 x 35 mm
22 x 18 x 22 mm*	35 x 28 x 35 mm
22 x 28 x 22 mm	

1N00.17 Side male Tee compression fitting Tin plated:  
Conical outer thread x compression x compression

R ½ x 15 x 15 mm  
R ¾ x 22 x 22 mm  
R 1 x 22 x 22 mm  
R 1 x 28 x 28 mm

1N00.20 Double elbow compression fitting Tin plated:  
Compression x compression

10 mm	22 mm
12 mm	28 mm
14 mm*	35 mm
15 mm	42 mm
16 mm*	54 mm
18 mm*	

1N00.21 Male elbow compression fitting Tin plated:  
compression x conical outer thread

R ¼ x 12 mm	R ¾ x 14 mm*
R ¾ x 10 mm	R ¾ x 15 mm
R ¾ x 12 mm	R ¾ x 16 mm*
R ¾ x 15 mm	R ¾ x 18 mm*
R ½ x 10 mm	R ¾ x 22 mm
R ½ x 12 mm	R ¾ x 28 mm
R ½ x 14 mm*	R 1 x 22 mm
R ½ x 15 mm*	R 1 x 28 mm
R ½ x 16 mm*	R 1¼ x 35 mm
R ½ x 18 mm*	R 1½ x 42 mm
R ½ x 22 mm	R 2 x 54 mm
R ¾ x 12 mm	

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1N00.22 Female elbow compression fitting:  
compression x straight inner thread

Rp 3/8 x 10 mm	Rp 3/4 x 14 mm*
Rp 3/8 x 12 mm	Rp 3/4 x 15 mm
Rp 3/8 x 15 mm	Rp 3/4 x 16 mm*
Rp 1/2 x 10 mm	Rp 3/4 x 18 mm*
Rp 1/2 x 12 mm	Rp 3/4 x 22 mm
Rp 1/2 x 14 mm*	Rp 3/4 x 28 mm
Rp 1/2 x 15 mm	Rp 1 x 22 mm
Rp 1/2 x 16 mm*	Rp 1 x 28 mm
Rp 1/2 x 18 mm*	Rp 1 1/4 x 35 mm
Rp 1/2 x 22 mm	Rp 1 1/2 x 42 mm
Rp 3/4 x 12 mm	Rp 2 x 54 mm

1N00.22 Female elbow compression fitting Tin plated:  
compression x straight inner thread

Rp 3/8 x 10 mm	Rp 3/4 x 14 mm*
Rp 3/8 x 12 mm	Rp 3/4 x 15 mm
Rp 3/8 x 15 mm	Rp 3/4 x 16 mm*
Rp 1/2 x 10 mm	Rp 3/4 x 18 mm*
Rp 1/2 x 12 mm	Rp 3/4 x 22 mm
Rp 1/2 x 14 mm*	Rp 3/4 x 28 mm
Rp 1/2 x 15 mm	Rp 1 x 22 mm
Rp 1/2 x 16 mm*	Rp 1 x 28 mm
Rp 1/2 x 18 mm*	Rp 1 1/4 x 35 mm
Rp 1/2 x 22 mm	Rp 1 1/2 x 42 mm
Rp 3/4 x 12 mm	Rp 2 x 54 mm

1N00.23 Wallplate elbow compression fitting:  
compression x straight inner thread

Rp 1/2 x 12 mm	Rp 1/2 x 16 mm
Rp 1/2 x 14 mm*	Rp 3/4 x 15 mm
Rp 1/2 x 15 mm	Rp 3/4 x 22 mm

1N00.23 Wallplate elbow compression fitting Tin plated:  
compression x straight inner thread

Rp 1/2 x 12 mm	Rp 1/2 x 16 mm
Rp 1/2 x 14 mm*	Rp 3/4 x 15 mm
Rp 1/2 x 15 mm	Rp 3/4 x 22 mm

1N00.29 Reduced elbow compression fitting:  
compression x compression

10 x 12 mm	15 x 22 mm
10 x 15 mm	15 x 28 mm
12 x 15 mm	22 x 28 mm
15 x 18 mm*	

1N00.29 Reduced elbow compression fitting Tin plated:  
compression x compression

10 x 12 mm	15 x 22 mm
10 x 15 mm	15 x 28 mm
12 x 15 mm	22 x 28 mm
15 x 18 mm*	

1N00.36 Cross compression fitting:  
compression x compression x compression x compression  
15 x 15 x 15 x 15 mm                      28 x 28 x 28 x 28 mm  
22 x 22 x 22 x 22 mm

1N00.36 Cross compression fitting Tin plated:  
compression x compression x compression x compression  
15 x 15 x 15 x 15 mm                      28 x 28 x 28 x 28 mm  
22 x 22 x 22 x 22 mm

1N00.40 Male cap compression fitting:  
compression

10 mm	28 mm
12 mm	35 mm
15 mm	42 mm
22 mm	54 mm

1N00.40 Male cap compression fitting Tin plated:  
compression

10 mm	28 mm
12 mm	35 mm
15 mm	42 mm
22 mm	54 mm

1N00.B1 Reduced cross compression fitting:  
compression x compression x compression x compression  
22 x 15 x 22 x 15 mm                      22 x 15 x 15 x 15 mm

1N00.B1 Reduced cross compression fitting Tin plated:  
compression x compression x compression x compression  
22 x 15 x 22 x 15 mm                      22 x 15 x 15 x 15 mm

1N00.B2 Wallplate elbow male compression fitting:  
compression  
G 3/4 x 15 mm

1N00.B2 Wallplate elbow male compression fitting Tin plated:  
compression  
G 3/4 x 15 mm

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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
- Manufacturers identity symbol or trademark
- Nominal diameter\*
- Reference to number and part of standard: EN 1254-2\*
- In case of fittings for R220 copper pipes, the marking shall be placed on both fittings and inserts.
- The inserts shall be marked with diameter x wall thickness.
- The words 'Bestand tegen waterstofgas' or 'Hydrogen ready'

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.

\*This can be placed on the smallest packaging

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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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