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Product Certificate

Multilayer pipe system

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

TECE GmbH

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 6 pages.
Publication of the certificate is allowed.

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PRODUCT SPECIFICATION

TECEflex

Multilayer PE-Xc/AL/PE-RT pipe yellow coloured.

Diameters 17x2,75 – 21x3,45 – 26x4,0 – 32x4,0 – 40x4,0 – 50x4,5 – 63x6,0 mm

Material couplers and sleeve: Brass

Couplers for TECEflex pipe system:

Article number	Description
760016	TECEflex tee standard brass, dim. 16 x 16 x 16
760020	TECEflex tee standard brass, dim. 20 x 20 x 20
760025	TECEflex tee standard brass, dim. 25 x 25 x 25
760032	TECEflex tee standard brass, dim. 32 x 32 x 32
760040	TECEflex tee standard brass, dim. 40 x 40 x 40
760504	TECEflex tee reduced standard brass, dim. 16 x 20 x 16
760508	TECEflex tee reduced standard brass, dim. 20 x 16 x 16
760509	TECEflex tee reduced standard brass, dim. 20 x 16 x 20
760511	TECEflex tee reduced standard brass, dim. 20 x 20 x 16
760514	TECEflex tee reduced standard brass, dim. 25 x 16 x 25
760515	TECEflex tee reduced standard brass, dim. 25 x 20 x 25
760516	TECEflex tee reduced standard brass, dim. 25 x 16 x 16
760527	TECEflex tee reduced standard brass, dim. 25 x 25 x 16
760528	TECEflex tee reduced standard brass, dim. 25 x 25 x 20
760517	TECEflex tee reduced standard brass, dim. 25 x 32 x 25
760518	TECEflex tee reduced standard brass, dim. 32 x 20 x 25
760519	TECEflex tee reduced standard brass, dim. 32 x 20 x 32
760520	TECEflex tee reduced standard brass, dim. 32 x 25 x 25
760529	TECEflex tee reduced standard brass, dim. 32 x 32 x 20
760530	TECEflex tee reduced standard brass, dim. 32 x 32 x 25
760521	TECEflex tee reduced standard brass, dim. 20 x 25 x 20
760522	TECEflex tee reduced standard brass, dim. 25 x 20 x 20
760523	TECEflex tee reduced standard brass, dim. 32 x 25 x 32
760524	TECEflex tee reduced standard brass, dim. 40 x 32 x 40
760525	TECEflex tee reduced standard brass, dim. 40 x 32 x 32
760531	TECEflex tee reduced standard brass, dim. 40 x 40 x 32
760526	TECEflex tee reduced standard brass, dim. 50 x 32 x 50
760533	TECEflex tee reduced standard brass, dim. 40 x 25 x 40
760534	TECEflex tee reduced standard brass, dim. 50 x 25 x 50
760528	TECEflex tee reduced standard brass, dim. 50 x 40 x 50

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760536	TECEflex tee reduced standard brass, dim. 40 x 20 x 40
760537	TECEflex tee reduced standard brass, dim. 32 x 16 x 32
760543	TECEflex tee reduced standard brass, dim. 40 x 25 x 32
760544	TECEflex tee reduced standard brass, dim. 25 x 16 x 20
760538	TECEflex tee reduced standard brass, dim. 63 x 50 x 63
763616	TECEflex Eurocone screw connection 3/4" dimension 16 standard brass
763620	TECEflex Eurocone screw connection 3/4" dimension 20 standard brass
765002	TECEflex female connector standard brass, 16 x 1/2" FT
765003	TECEflex female connector standard brass, 20 x 1/2" FT
765004	TECEflex female connector standard brass, 20 x 3/4" FT
765007	TECEflex female connector standard brass, 25 x 3/4" FT
765008	TECEflex female connector standard brass, 32 x 1" FT
765009	TECEflex female connector standard brass, 25 x 1" FT
765010	TECEflex female connector standard brass, 40 x 1 1/2" IT
765116	TECEflex end plugs standard brass, dim. 16
765120	TECEflex end plug standard brass, dim. 20
765130	TECEflex mounting unit with wall disks made of standard brass 150mm 16x1/2"
765135	TECEflex mounting unit with wall disks made of standard brass 120mm 16x3/8"
765147	TECEflex mounting unit with wall disks made of standard brass 150mm 16x1/2"
765502	TECEflex male connector standard brass, 16 x R 1/2"
765503	TECEflex male connector standard brass, 20 x R 1/2"
765504	TECEflex male connector standard brass, 20 x R 3/4"
765506	TECEflex male connector standard brass, 16 x R 3/4"
765507	TECEflex male connector standard brass, 25 x R 3/4"
765508	TECEflex male connector standard brass, 25 x R 1"
765509	TECEflex male connector standard brass, 32 x R 1"
765510	TECEflex male connector standard brass, 32 x R 1 1/4"
765511	TECEflex male connector standard brass, 40 x R 1 1/4"
765512	TECEflex male connector standard brass, 50 x R 1 1/2"
765513	TECEflex male connector standard brass, 63 x R 2"
765514	TECEflex male connector standard brass, 16 x R 3/8"
766016	TECEflex coupling standard brass, 16 x 16
766020	TECEflex coupling standard brass, 20 x 20
766025	TECEflex coupling standard brass, 25 x 25
766032	TECEflex coupling standard brass, 32 x 32
766040	TECEflex coupling standard brass, 40 x 40
766050	TECEflex coupling standard brass, 50 x 50
766063	TECEflex coupling standard brass, 63 x 63
766503	TECEflex coupling reduced standard brass, 20 x 16
766504	TECEflex coupling reduced standard brass, 25 x 16

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766505	TECEflex coupling reduced standard brass, 25 x 20
766506	TECEflex coupling reduced standard brass, 32 x 20
766507	TECEflex coupling reduced standard brass, 32 x 25
766511	TECEflex coupling reduced standard brass, 40 x 25
766508	TECEflex coupling reduced standard brass, 40 x 32
766512	TECEflex coupling reduced standard brass, 50 x 32
766509	TECEflex coupling reduced standard brass, 50 x 40
767016	TECEflex elbow 90° standard brass, 16 x 16
767020	TECEflex elbow 90° standard brass, 20 x 20
767025	TECEflex elbow 90° standard brass, 25 x 25
767032	TECEflex elbow 90° standard brass, 32 x 32
767040	TECEflex elbow 90° standard brass, 40 x 40
767050	TECEflex elbow 90° standard brass, 50 x 50
767063	TECEflex elbow 90°, standard brass, 63 x 63
767125	TECEflex elbow 45° dim. 25 x 25, standard brass
767132	TECEflex elbow 45° dim. 32 x 32, standard brass
767140	TECEflex elbow 45° dim. 40 x 40, standard brass
767501	TECEflex male elbow standard brass, dim. 20 x R 3/4"
767516	TECEflex male elbow standard brass, dim. 16 x R 1/2"
767520	TECEflex male elbow standard brass, dim. 20 x R 1/2"
767525	TECEflex male elbow standard brass, dim. 25 x R 3/4"
767526	TECEflex male elbow standard brass, dim. 25 x R 1"
767532	TECEflex male elbow standard brass, dim. 32 x R 1"
767570	TECEflex screw connection, flat sealing standard brass, dim. 16 x 3/4"
767572	TECEflex screw connection, flat sealing standard brass, dim. 20 x 3/4"
767574	TECEflex screw connection, flat sealing standard brass, dim. 25 x 1"
767576	TECEflex screw connection, flat sealing standard brass, dim. 20 x 1"
767578	TECEflex screw connection, flat sealing standard brass, dim. 16 x 1/2"
767579	TECEflex screw connection, flat sealing standard brass, dim. 16 x 3/8"
768002	TECEflex female elbow standard brass, 20 x Rp 3/4"
768016	TECEflex female elbow standard brass, 16 x Rp 1/2"
768020	TECEflex female elbow standard brass, 20 x Rp 1/2"
768025	TECEflex female elbow standard brass, 25 x Rp 3/4"
768032	TECEflex female elbow standard brass, 32 x Rp 1"
768501	TECEflex double wall disk standard brass
708628	TECEflex Double wall disk long version 16 x Rp 1/2" x 16 long Si Bronze 90°
768502	TECEflex wall disk, long standard brass
768503	TECEflex Wall disk 16 x 1/2" 54 mm
768516	TECEflex wall disk standard brass, dim. 16 x Rp 1/2"
768520	TECEflex wall disk standard brass, dim. 20 x Rp 1/2"

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768525	TECEflex wall disk standard brass, dim. 20 x Rp 3/4"
768526	TECEflex wall disk standard brass, dim. 25 x Rp 3/4"
769516	TECEflex tee female thread standard brass, dim. 16 x Rp 1/2" x 16
709809	TECEflex tee female thread silicon bronze 40 x Rp 3/4" x 40
709810	TECEflex tee female thread silicon bronze 50 x Rp 3/4" x 50
709811	TECEflex tee female thread silicon bronze 63 x Rp 3/4" x 63
769520	TECEflex tee FT standard brass, dim. 20 x Rp 1/2" x 20
769522	TECEflex tee FT standard brass, dim. 25 x Rp 1/2" x 25
769525	TECEflex tee FT standard brass, dim. 25 x Rp 3/4" x 25
769527	TECEflex tee FT standard brass, dim. 32 x Rp 1/2" x 32
769532	TECEflex tee FT standard brass, dim. 32 x Rp 1" x 32
769534	TECEflex tee IT standard brass, dim. 40 x Rp 1/2" x 40
769540	TECEflex tee IT standard brass, dim. 40 x Rp 1" x 40
713805	TECEflex screw connection 16 x copper 15mm
713806	TECEflex screw connection 20 x copper 22mm
762201	TECEflex two-way manifold, 16x3/4" made of standard brass
762202	TECEflex three-way manifold, 16x3/4" made of standard brass

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.

MARKING

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Pipes:

- GASTEC QA, GASTEC QA logo or trademark
- Name manufacturer or trademark: TECE
- Fluid to be conveyed: Gas
- Maximal design pressure (MOP): 5 bar
- Dimensions (nominal outer diameter and nominal wall thickness)
- Material designation; PE-Xc/AL/PE,
- Production period (date/code):
- Standard reference number: ISO 17484.
- The words 'Bestand tegen waterstofgas volgens KE 214' or 'Hydrogen ready according to AR 214'.*

Fittings*:

- GASTEC QA, GASTEC QA logo or trademark
- Name or trademark of the manufacturer: TECE
- Fluid to be conveyed or yellow marking:
- Body material:
- Nominal diameter(s) Dn to which the fitting is intended to joint (corresponding pipe)
- Material classification of pipe(s) including reference to pipe manufacturer
- The words "bestand tegen waterstof gas volgens KE 214" or "Hydrogen ready according to AR 214"

*In case it is not possible to mark the product with all aspects, it is allowed to provide the marking on the smallest package. At least the Production charge or code and manufacturer trade have to be mentioned on the fitting

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.
