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Product Certificate

POM mechanical couplings, type K

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

E. Hawle Armaturenwerke 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 5 pages.
Publication of the certificate is allowed.

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PRODUCT SPECIFICATION

Couplings and transition couplings for:

- PE pipes (approval requirement 8) SDR 17,6 and SDR 11, max. working pressure 8 bar (provided with white clamp rings)
- PE pipe sleeves with copper pipe (approval requirement 5), max. working pressure 8 bar
- Copper pipes (approval requirement 5), max. working pressure 8 bar
- PE coated steel pipes (EN6902), max. working pressure 8 bar
- PVC-HI pipes (approval requirement 10), max. working pressure 200 mbar (provided with red or black clamp rings)

Material: POM

6933K

Red clamp ring

K 6125 Male adaptor PE x outer thread

20 x R ½
 25 x R ¾
 25 x R1 (K6135),
 32 x R 1
 32 x R 1 1/4 (K6135)
 40 x R 1 ¼
 40 x R 2 (K6135)
 50 x R 1 ½
 50 x R 2 (K6135)
 63 x R 2

K 6325 Connector PE x PE:

20 x 20
 25 x 25
 32 x 32
 40 x 40
 50 x 50
 63 x 63

K 6425 Elbow 90° PE x PE:

20 x 20
 25 x 25
 32 x 25 (K 6491)
 32 x 32
 40 x 32 (K 6491)
 40 x 40
 50 x 50
 63 x 63

6933

Black clamp ring

K 6225 Female adaptor PE x inner thread:

20 x Rp ½
 25 x Rp ¾
 32 x Rp 1
 40 x Rp 1 ¼
 50 x Rp 1 ½
 50 x Rp 2
 63 x Rp 2

K 6335 Connector reduced PE x PE:

25 x 20
 32 x 25
 40 x 25
 40 x 32
 50 x 25
 50 x 32
 50 x 40
 63 x 40
 63 x 50

K 6435 Elbow 90° female thread PE x inner thread:

20 x Rp ½
 25 x Rp ¾
 32 x Rp 1
 40 x Rp 1 ¼
 50 x Rp 1 ½
 63 x Rp 2.

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K 6525 T-piece PE x inner thread x PE:

20 x Rp ½ x 20
 25 x Rp ¾ x 25
 32 x Rp 1 x 32
 40 x Rp 1 ¼ x 40
 50 x Rp 1 ½ x 50
 63 x Rp 1 ½ x 63
 63 x Rp 2 x 63

K 6555 T-piece PE x PE x PE:

25 x 25 x 25
 32 x 32 x 32
 40 x 40 x 40
 50 x 50 x 50
 63 x 63 x 63.

K 6226 End cap PE: 20, 25, 32, 40, 50 and 63

K 6365 Connector equal PE x PE coated steel pipe NEN 6902:

25 x 3/4" KB
 32 x 1" KB
 50 x 1 1/2 KB.

K 6375 Connector reduced PE x PE coated steel pipe NEN 6902:

25 x 1" KB
 40 x 1" KB
 50 x 1 ½" KB
 63 x 2" KB

K 6485 Elbow 90° equal PE x PE coated steel pipe NEN 6902:

25 x 3/4" KB
 32 x 1" KB
 40 x 1 1/4" KB
 50 x 1 1/2" KB
 63 x 2" KB

K 6495 Elbow 90° reduced PE x PE coated steel pipe NEN 6902:

25 x 1" KB
 40 x 1"KB.

K 6385 Connector PE x copper pipe KE 5 half-hard:

25 x 15 Cu
 25 x 22 Cu
 32 x 15 Cu
 32 x 22 Cu
 32 x 28 Cu
 40 x 28 Cu
 40 x 35 Cu
 50 x 42 Cu

K 6395 Connector PE x PE pipe sleeve x copper pipe KE 5 half-hard:

32 x 32 x 22 Cu
 32 x 25 x 22 Cu
 40 x 40 x 28 Cu

K 6125 Male adaptor PVC-HI x outer thread

20 x R ½
 25 x R ¾
 25 x R1 (K6135),
 32 x R 1
 32 x R 1 1/4 (K6135)
 40 x R 1 ¼
 40 x R 2 (K6135)
 50 x R 1 ½
 50 x R 2 (K6135)
 63 x R 2

K 6225 Female adaptor PVC-HI x inner thread:

20 x Rp ½
 25 x Rp ¾
 32 x Rp 1
 40 x Rp 1 ¼
 50 x Rp 1 ½
 50 x Rp 2
 63 x Rp 2

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K 6325 Connector PVC-HI x PVC-HI:

20 x 20
25 x 25
32 x 32
40 x 40
50 x 50
63 x 63

K 6335 Connector reduced PVC-HI x PVC-HI:

25 x 20
32 x 25
40 x 25
40 x 32
50 x 25
50 x 32
50 x 40
63 x 40
63 x 50

K 6425 Elbow 90° PVC-HI x PVC-HI:

20 x 20
25 x 25
32 x 25 (K 6491)
32 x 32
40 x 32 (K 6491)
40 x 40
50 x 50
63 x 63

K 6435 Elbow 90° female thread PVC-HI x inner thread:

20 x Rp ½
25 x Rp ¾
32 x Rp 1
40 x Rp 1 ¼
50 x Rp 1 ½
63 x Rp 2.

K 6525 T-piece PVC-HI x inner thread x PVC-HI:

20 x Rp ½ x 20
25 x Rp ¾ x 25
32 x Rp 1 x 32
40 x Rp 1 ¼ x 40
50 x Rp 1 ½ x 50
63 x Rp 1 ½ x 63
63 x Rp 2 x 63

K 6555 T-piece PVC-HI x PVC-HI x PVC-HI:

25 x 25 x 25
32 x 32 x 32
40 x 40 x 40
50 x 50 x 50
63 x 63 x 63.

K 6226 End cap PVC-HI: 20, 25, 32, 40, 50 and 63

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 or GASTEC QA logo or punch mark*
- Name of manufacturer: E. Hawle Armaturenwerke GmbH
- Material: POM;*
- Nominal connection size(s);
- Maximum operating pressure: 8 bar / 200 mbar;*
- Production date or code;*
- $D_{\text{mean}} \times$ wall thickness on separate inserts and packages up to and including 32 mm. From 32 mm D_{mean} and SDR class for PE pipe
- The words 'Bestand tegen waterstofgas volgens KE 214' or 'Hydrogen ready according to AR 214'.*

*This information may be on the product, on a label attached to the product or on the smallest packaging.

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.
