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Product Certificate

Ductile cast iron wide range 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

Georg Fischer Waga N.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 June 2019.

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 3 pages.
Publication of the certificate is allowed.

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CERTIFICATE

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PRODUCT SPECIFICATION

Model numbers ended with "0" are non-restraint, PN 8 bar

Model numbers ended with "7" are restraint, PN 8 bar (50 – 300 mm) and PN 5 bar (350 – 400 mm)

Temperature class A (-5 °C – 30 °C)

All diameters are 50 – 400 mm.

- MULTI/Joint® 3000 and 3007 Plus Coupling
- MULTI/Joint® 3050 and 3057 Plus Flange adaptor
- MULTI/Joint® 3100 and 3107 Plus Reduced coupling
- MULTI/Joint® 3150 and 3157 Plus Reduced flange adaptor
- MULTI/Joint® 3200 and 3207 Plus End-cap blind
- MULTI/Joint® 3200 and 3207 Plus End-cap threaded
- MULTI/Joint® 3400 and 3407 Plus Bend
- MULTI/Joint® 3450 and 3457 Plus Duckfoot
- MULTI/Joint® 3550 and 3557 Plus Reduced duckfoot
- MULTI/Joint® 3060 and 3067 Plus PE adaptor
- MULTI/Joint® 3080 and 3087 Plus Spigot-end
- MULTI/Joint® 3180 and 3187 Plus Reduced spigot-end

To be applied with pipe material:

- Ductile iron
- Grey iron
- Steel
- Fiber-cement
- PVC-U
- PVC-HI
- PE

APPLICATION AND USE

The product is intended to be used in distribution systems for gas conform the Regulations gas quality for low caloric gas to be used up to and including 16 bar* with an admixture up to and including 100% hydrogen gas. The maximum pressure and operation temperature are mentioned in the approval requirement for the product for GASTEC QA certification.

MARKING

- GASTEC QA or GASTEC QA logo or punchmark
- Manufacturer's name or trademark: +GF+;
- Identification of the ductile cast iron: EN 1663, EN-GJS-450;
- DN and PN range of the flanges when applicable;
- The minimum and maximum outside diameter;
- MOP of the fitting;
- Production or assembling date of the product.
- The words 'Bestand tegen waterstofgas' and 'Hydrogen ready'.

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RECOMMENDATIONS FOR END USERS

Check at the time of delivery whether:

- the producer has delivery 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.
