



CERT

DVGW-Baumusterprüfzertifikat

DVGW type examination certificate

DV-8611AQ3259

Registriernummer
registration number

| | |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Anwendungsbereich <i>field of application</i> | Produkte der Gas- und Wasserversorgung <i>products of gas and water supply</i> |
| Zertifikatinhaber <i>owner of certificate</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Vertreiber <i>distributor</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Produktart <i>product category</i> | Formteile und Klemmverbinder aus Kunststoffen: PE-HD-Formstücke zum Heizwendelschweißen, Durchmesser 250 bis 630 mm (8613) |
| Produktbezeichnung <i>product description</i> | Formstücke aus PE-HD (PE 100) zum Heizwendelschweißen, Durchmesser 250 bis 630 mm |
| Modell <i>model</i> | ELGEF-Plus (Georg Fischer +GF+) |
| Prüfberichte <i>test reports</i> | Kontrollprüfung Labor: K 20 0058.11 vom 20.07.2020 (MPD) Kontrollprüfung Labor: K 20 0058.3 vom 20.07.2020 (MPD) Ergänzungsprüfung: K 17 0287.1 vom 20.03.2017 (MPD) Ergänzungsprüfung: K 17 0287.2 vom 17.03.2017 (MPD) Kontrollprüfung Labor: K 15 0331.18 vom 11.11.2015 (MPD) Mechanikprüfung: K 12 0040.3 vom 08.03.2012 (MPD) Baumusterprüfung: K 05 1560.3 vom 06.01.2006 (MPD) |
| Prüfgrundlagen <i>test basis</i> | DVGW GW 335-B2 (01.09.2004) DVGW GW 335-B2/B1 (01.02.2013) UBA KTW (07.03.2016) DVGW W 270 (01.11.2007) |
| Ablaufdatum / AZ <i>date of expiry / file no.</i> | 07.02.2026 / 20-0920-WNV |

70028-04-A-DE

03.12.2020 Fk A-1/2

Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle
date, issued by, sheet, head of certification body

DVGW CERT GmbH ist von der DAkkS nach DIN EN ISO/IEC 17065:2013 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.

DVGW CERT GmbH is an accredited body by DAkkS according to DIN EN ISO/IEC 17065:2013 for certification of products for energy and water supply industry.



Deutsche
Akkreditierungsstelle
D-ZE-16028-01-05

DVGW CERT GmbH
Zertifizierungsstelle

Josef-Wirmer-Str. 1-3
53123 Bonn

Tel. +49 228 91 88 - 888
Fax +49 228 91 88 - 993

www.dvgw-cert.com
info@dvgw-cert.com

| Typ <i>type</i> | Technische Daten <i>technical data</i> | Bemerkungen <i>remarks</i> |
|------------------------------------|--------------------------------------------------|--------------------------------------|
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 250 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 280 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 315 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 355 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 400 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 450 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 500 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 560 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 630 mm | |

Verwendungshinweise / Bemerkungen*hints of utilization / remarks*

Bauteile: Muffen, Winkel, T-Stücke, Reduktionen, Endkappen, Schellen



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| Distributor <i>Vertreiber</i> | Georg Fischer Wavin AG Ebnetstraße 111, CH-8201 Schaffhausen |
| Product Category <i>Produktart</i> | plastic fittings and compression fittings: PE-HD electro fusion fitting, diameter 250 up to 630 mm (8613) |
| Product Description <i>Produktbezeichnung</i> | PE-HD electro fusion fitting, diameter 250 up to 630 mm |
| Model <i>Modell</i> | ELGEF-Plus (Georg Fischer +GF+) |
| Test Reports <i>Prüfberichte</i> | laboratory control test: K 20 0058.11 from 20.07.2020 (MPD) laboratory control test: K 20 0058.3 from 20.07.2020 (MPD) supplement test: K 17 0287.1 from 20.03.2017 (MPD) supplement test: K 17 0287.2 from 17.03.2017 (MPD) laboratory control test: K 15 0331.18 from 11.11.2015 (MPD) mechanical test: K 12 0040.3 from 08.03.2012 (MPD) type testing: K 05 1560.3 from 06.01.2006 (MPD) |
| Test Basis <i>Prüfgrundlagen</i> | DVGW GW 335-B2 (01.09.2004) DVGW GW 335-B2/B1 (01.02.2013) UBA KTW (07.03.2016) DVGW W 270 (01.11.2007) |
| Date of Expiry / File No. <i>Ablaufdatum / Aktenzeichen</i> | 07.02.2026 / 20-0920-WNV |

7028-04-A-DE

03.12.2020 Fk A-1/2

Date, Issued by, Sheet, Head of Certification Body
Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle

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Fax +49 228 91 88 - 993

www.dvgw-cert.com
info@dvgw-cert.com

| Type <i>Typ</i> | Technical Data <i>Technische Daten</i> | Remarks <i>Bemerkungen</i> |
|------------------------------------|--------------------------------------------------|--------------------------------------|
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 250 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 280 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 315 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 355 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 400 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 450 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 500 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 560 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 630 mm | |

Hints of Utilization / Remarks

Verwendungshinweise / Bemerkungen

parts: sockets, angles, T-pieces, reducers, caps, clamp saddles



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|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Anwendungsbereich <i>field of application</i> | Produkte der Gas- und Wasserversorgung <i>products of gas and water supply</i> |
| Zertifikatinhaber <i>owner of certificate</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Vertreiber <i>distributor</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Produktart <i>product category</i> | Formteile und Klemmverbinder aus Kunststoffen: PE-HD-Formstücke zum Heizwendelschweißen, Durchmesser 75 bis 225 mm (8608) |
| Produktbezeichnung <i>product description</i> | Formstücke aus PE-HD (PE 100) zum Heizwendelschweißen, Durchmesser 75 bis 225 mm |
| Modell <i>model</i> | ELGEF-Plus (Georg Fischer +GF+) |
| Prüfberichte <i>test reports</i> | Kontrollprüfung Labor: K 20 0058.2 vom 20.07.2020 (MPD) Kontrollprüfung Labor: K 20 0058.13 vom 20.07.2020 (MPD) Baumusterprüfung: K 20 0420.2+K 20 0420.3 vom 29.06.2020 (MPD) KTW-Prüfung: KR 039/20 vom 09.11.2020 (TZW) Mikrobiologische Prüfung: MO 226/19 vom 23.04.2020 (TZW) KTW-Prüfung: KR 040/20 vom 09.11.2020 (TZW) Mikrobiologische Prüfung: MO 180/19 vom 21.04.2020 (TZW) |
| Prüfgrundlagen <i>test basis</i> | DVGW GW 335-B2 (01.09.2004) DVGW GW 335-B2/B1 (01.02.2013) UBA KTW-BWGL (11.03.2019) DVGW W 270 (01.11.2007) |
| Ablaufdatum / AZ <i>date of expiry / file no.</i> | 07.02.2026 / 20-0920-WNV |

70029-04-A-DE

03.12.2020 Fk A-1/2

Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle
date, issued by, sheet, head of certification body

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53123 Bonn

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Fax +49 228 91 88 - 993

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info@dvgw-cert.com

| Typ type | Technische Daten technical data | Bemerkungen remarks |
|------------------------------------|--------------------------------------------|--------------------------------|
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 75 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 90 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 110 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 125 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 140 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 160 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 180 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 200 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 225 mm | |

Verwendungshinweise / Bemerkungen**hints of utilization / remarks**

Bauteile: Muffen, Winkel, T-Stücke, Reduktionen, Endkappen, Anbohrschellen, Anbohrschellen für gasfreies Anbohren



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| Owner of Certificate <i>Zertifikatinhaber</i> | Georg Fischer Wavin AG Ebnetstraße 111, CH-8201 Schaffhausen |
| Distributor <i>Vertreiber</i> | Georg Fischer Wavin AG Ebnetstraße 111, CH-8201 Schaffhausen |
| Product Category <i>Produktart</i> | plastic fittings and compression fittings: PE-HD electro fusion fitting, diameter 75 up to 225 mm (8608) |
| Product Description <i>Produktbezeichnung</i> | PE-HD electro fusion fitting, diameter 75 up to 225 mm |
| Model <i>Modell</i> | ELGEF-Plus (Georg Fischer +GF+) |
| Test Reports <i>Prüfberichte</i> | laboratory control test: K 20 0058.2 from 20.07.2020 (MPD) laboratory control test: K 20 0058.13 from 20.07.2020 (MPD) type testing: K 20 0420.2+K 20 0420.3 from 29.06.2020 (MPD) KTW testing: KR 039/20 from 09.11.2020 (TZW) hygienic testing: MO 226/19 from 23.04.2020 (TZW) KTW testing: KR 040/20 from 09.11.2020 (TZW) hygienic testing: MO 180/19 from 21.04.2020 (TZW) |
| Test Basis <i>Prüfgrundlagen</i> | DVGW GW 335-B2 (01.09.2004) DVGW GW 335-B2/B1 (01.02.2013) UBA KTW-BWGL (11.03.2019) DVGW W 270 (01.11.2007) |
| Date of Expiry / File No. <i>Ablaufdatum / Aktenzeichen</i> | 07.02.2026 / 20-0920-WNV |

70026-04-A-DE

03.12.2020 Fk A-1/2

Date, Issued by, Sheet, Head of Certification Body
Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle

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| Type <i>Typ</i> | Technical Data <i>Technische Daten</i> | Remarks <i>Bemerkungen</i> |
|------------------------------------|--------------------------------------------------|--------------------------------------|
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 75 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 90 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 110 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 125 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 140 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 160 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 180 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 200 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 225 mm | |

Hints of Utilization / Remarks

Verwendungshinweise / Bemerkungen

parts: sockets, angles, T-pieces, reducers, caps, saddles, saddles for gas-free drilling



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| Anwendungsbereich <i>field of application</i> | Produkte der Gas- und Wasserversorgung <i>products of gas and water supply</i> |
| Zertifikatinhaber <i>owner of certificate</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Vertreiber <i>distributor</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Produktart <i>product category</i> | Formteile und Klemmverbinder aus Kunststoffen: PE-HD-Formstücke zum Heizwendelschweißen, Durchmesser bis 63 mm (8603) |
| Produktbezeichnung <i>product description</i> | PE-HD-Formstücke zum Heizwendelschweißen, Durchmesser bis 63 mm |
| Modell <i>model</i> | ELGEF-Plus (Georg Fischer +GF+) |
| Prüfberichte <i>test reports</i> | Kontrollprüfung Labor: K 20 0058.1 vom 20.07.2020 (MPD) Baumusterprüfung: K 20 0420.1 vom 29.06.2020 (MPD) KTW-Prüfung: KR 039/20 vom 09.11.2020 (TZW) Mikrobiologische Prüfung: MO 226/19 vom 23.04.2020 (TZW) KTW-Prüfung: KR 040/20 vom 09.11.2020 (TZW) Mikrobiologische Prüfung: MO 180/19 vom 21.04.2020 (TZW) |
| Prüfgrundlagen <i>test basis</i> | DVGW GW 335-B2 (01.09.2004) DVGW GW 335-B2/B1 (01.02.2013) UBA KTW-BWGL (11.03.2019) DVGW W 270 (01.11.2007) |
| Ablaufdatum / AZ <i>date of expiry / file no.</i> | 07.02.2026 / 20-0920-WNV |

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| Typ type | Technische Daten technical data | Bemerkungen remarks |
|------------------------------------|--------------------------------------------|--------------------------------|
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 20 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 25 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 32 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 40 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 50 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | Nenndurchmesser: 63 mm | |

Verwendungshinweise / Bemerkungen**hints of utilization / remarks**

Bauteile: Muffen, Winkel, T-Stücke, Reduktionen, Endkappen, Schellen, Anbohrschellen für gasfreies Anbohren



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| Field of Application <i>Anwendungsbereich</i> | products of gas and water supply <i>Produkte der Gas- und Wasserversorgung</i> |
| Owner of Certificate <i>Zertifikatinhaber</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Distributor <i>Vertreiber</i> | Georg Fischer Wavin AG Ebnatstraße 111, CH-8201 Schaffhausen |
| Product Category <i>Produktart</i> | plastic fittings and compression fittings: PE-HD electro fusion fitting, diameter up to 63 mm (8603) |
| Product Description <i>Produktbezeichnung</i> | PE-HD electro fusion fitting, diameter up to 63 mm |
| Model <i>Modell</i> | ELGEF-Plus (Georg Fischer +GF+) |
| Test Reports <i>Prüfberichte</i> | laboratory control test: K 20 0058.1 from 20.07.2020 (MPD) type testing: K 20 0420.1 from 29.06.2020 (MPD) KTW testing: KR 039/20 from 09.11.2020 (TZW) hygienic testing: MO 226/19 from 23.04.2020 (TZW) KTW testing: KR 040/20 from 09.11.2020 (TZW) hygienic testing: MO 180/19 from 21.04.2020 (TZW) |
| Test Basis <i>Prüfgrundlagen</i> | DVGW GW 335-B2 (01.09.2004) DVGW GW 335-B2/B1 (01.02.2013) UBA KTW-BWGL (11.03.2019) DVGW W 270 (01.11.2007) |
| Date of Expiry / File No. <i>Ablaufdatum / Aktenzeichen</i> | 07.02.2026 / 20-0920-WNV |

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| Type Typ | Technical Data Technische Daten | Remarks Bemerkungen |
|------------------------------------|--------------------------------------------------|--------------------------------------|
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 20 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 25 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 32 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 40 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 50 mm | |
| ELGEF-Plus (Georg Fischer +GF+) | nominal diameter: 63 mm | |

Hints of Utilization / Remarks**Verwendungshinweise / Bemerkungen**

parts: sockets, angles, T-pieces, reducers, caps, saddles, saddles for gas-free drilling

Date of valid edition 25-05-2020 **No.** 2039
Date of first issue 16-10-2006 **Page** 1 of 2

Name and address of certificate holder

Georg Fischer Wavin Ltd.
 Ebnatstrasse 111
 CH-8201 Schaffhausen
 Switzerland

Conformity marks covered by the certificate



Marks regarding products in contact with drinking water

·DK-VAND· * DS's certification rules of 11 June 2008

Information regarding the certificate holder/manufacturer

| | |
|-------------------------------------------------|---------------------------------------------------------------------------------------|
| Contact person Patric Haas | Telephone +41 52 631 3965 |
| | Email patric.haas@georgfischer.com |
| Manufacturer Georg Fischer Wavin Ltd. | Place of manufacture Industriestrasse 24 CH-4553 Subingen Switzerland |

Product covered by the certificate

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| Type of product Plastics piping systems for water supply and for drainage and sewerage under pressure - Polyethylene (PE) | Standard Normative document EN 12201-3 | Specific rules INSTA-CERT SBC EN 12201 |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|

Specification of product

Electrofusion fittings and spigot fittings, PE 100 (specified on page 2)
 1 ($16 \leq d_h < 75$ mm), SDR 11
 2 ($75 \leq d_h < 250$ mm), SDR 11, 17
 3 ($250 \leq d_h < 710$ mm), SDR 11, 17

Approved raw materials are specified in Annex 1 which is confidential.

The certificate holder above is hereby given permission to use the INSTA-CERT mark on or in connection with products, which fulfil the requirements of the standard or the normative document specified above (what is said in this document about INSTA-CERT mark will also be valid for marks defined in relevant SBC). The certificate is valid on the condition that the certificate holder complies with "General rules for certification by partners of INSTA-CERT" (GRC) and the specific rules applying to certification of products of the type mentioned. The certificate holder is obliged to indemnify INSTA-CERT partners of any claim for damages or any other expenses to which partners may become liable as a result of injuries caused by a product manufactured or sold by the certificate holder. This also applies to defective or faulty products.

Unless terminated, the certificate will be automatically extended for one year at a time. The certificate will be re-issued with a new "date of valid edition" only if the content and/or conditions of the certificate have been changed. Termination may take place to the end of a year subject to three months notice on the part of the certificate holder and the certification body. Information on valid certificates is available on INSTA-CERT's homepage, www.insta-cert.net. The certificate is not transferable.

MEMBER OF INSTA-CERT
 DANCERT A/S

Jørgen Baadsgaard-Jensen
 CEO

Date of valid edition
25-05-2020**No.**
2039**Date of first issue**
16-10-2006**Page**
2 of 2

The table below specifies the approved types and sizes.

| Electrofusion fittings and spigot fittings, PE 100 | Fitting group | Size group | SDR | Brand |
|---------------------------------------------------------------|--------------------------|-----------------------|------------|--------------|
| Electrofusion Tee 90°, d90-250 | A | 2, 3 | 11 | GF, WA |
| Spigot Tee 90°, d20-225 (SDR 11), d110-225 (SDR 17) | C | 1, 2 | 11, 17 | GF, WA |
| Electrofusion elbow 90°, d90-250 | A | 2, 3 | 11 | GF, WA |
| Spigot elbow 90° d20-225 (SDR 11), d110-225 (SDR 17) | C | 1, 2 | 11, 17 | GF, WA |
| Electrofusion elbow, 45° d90-250 | A | 2, 3 | 11 | GF, WA |
| Spigot elbow, 45° d20-225 (SDR 11), d110-225 (SDR 17) | C | 1, 2 | 11, 17 | GF, WA |
| Electrofusion reducer, d90-250 | A | 2, 3 | 11 | GF, WA |
| Spigot reducer d20-225 (SDR 11), d110-225 (SDR 17) | C | 2 | 11, 17 | GF, WA |
| Spigot endcap d20-225 (SDR 11), d110-225 (SDR 17) | C | 1, 2 | 11, 17 | GF, WA |
| Electrofusion coupler, d20-315 | A | 1, 2, 3 | 11 | GF, WA |
| Electrofusion coupler, d160-315 | A | 2, 3 | 17 | GF, WA |

Certificate holder
Georg Fischer Wavin Ltd.
Ebnatstrasse 111
CH-8201 Schaffhausen
Switzerland

The table below specifies the approved raw materials.

| Raw material | Size group | SDR | DK-VAND Valid until | Reports |
|--------------------------------------------------------|------------|--------|------------------------|-----------------------------------------------|
| Electrofusion fittings and spigot fittings, PE 100: | | | | DS licence No. 1593 and additional testing |
| ELTEX TUB 121 ·DK-VAND· * | 1, 2, 3 | 11, 17 | 06.05.2023 | DTI 489679 DTI 575669 DHI 11819080 |
| HOSTALEN CRP 100 ·DK-VAND· * | 1, 2, 3 | 11, 17 | 06.05.2023 | DHI 11824564-Ed.2B DHI 11824564-Ed.1B |

Date of valid edition 12-11-2020 **No.** 2038
Date of first issue 16-10-2006 **Page** 1 of 2

Name and address of certificate holder

Georg Fischer Wavin Ltd.
 Ebnatstrasse 111
 CH-8201 Schaffhausen
 Switzerland

Conformity marks covered by the certificate



Marks for products in contact with drinking water

·DK-VAND· * DS's certification rules of 11 June 2008

Information regarding the certificate holder/manufacturer

| | |
|-------------------------------------------------|----------------------------------------------------------------------------------------|
| Contact person Patric Haas | Telephone +41 52 631 3965 |
| | Email patric.haas@georgfischer.com |
| Manufacturer Georg Fischer Wavin Ltd. | Place of manufacture Ebnatstrasse 111 CH-8201 Schaffhausen Switzerland |

Product covered by the certificate

| Type of product | Standard Normative document | Specific rules |
|-----------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------|
| Plastics piping systems for water supply and for drainage and sewerage under pressure - Polyethylene (PE) | EN 12201-3 | INSTA-CERT SBC EN 12201 |

Specification of product

Electrofusion fittings, PE 100 (specified on page 2)
 1 ($16 \leq d_h < 75$ mm), SDR 11
 2 ($75 \leq d_h < 250$ mm), SDR 11, 17
 3 ($250 \leq d_h < 710$ mm), SDR 11, 17
 4 ($710 \leq d_h = 800$ mm), SDR 11, 17

Approved raw materials are specified in Annex 1 which is confidential.

The certificate holder above is hereby given permission to use the INSTA-CERT mark on or in connection with products, which fulfil the requirements of the standard or the normative document specified above (what is said in this document about INSTA-CERT mark will also be valid for marks defined in relevant SBC). The certificate is valid on the condition that the certificate holder complies with "General rules for certification by partners of INSTA-CERT" (GRC) and the specific rules applying to certification of products of the type mentioned. The certificate holder is obliged to indemnify INSTA-CERT partners of any claim for damages or any other expenses to which partners may become liable as a result of injuries caused by a product manufactured or sold by the certificate holder. This also applies to defective or faulty products.

Unless terminated, the certificate will be automatically extended for one year at a time. The certificate will be re-issued with a new "date of valid edition" only if the content and/or conditions of the certificate have been changed. Termination may take place to the end of a year subject to three months notice on the part of the certificate holder and the certification body. Information on valid certificates is available on INSTA-CERT's homepage, www.insta-cert.net. The certificate is not transferable.

MEMBER OF INSTA-CERT
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 Jørgen Baadsgaard-Jensen
 CEO

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The table below specifies the approved types and sizes

| Electrofusion fittings, PE 100 | Fitting group | Size group | SDR | Brand |
|---------------------------------------|----------------------|-------------------|------------|--------------|
| Electrofusion Tee 90°, d20-63 | A | 1 | 11 | GF, WA |
| Electrofusion elbow 90°, d20-63 | A | 1 | 11 | GF, WA |
| Electrofusion reducer, d20-63 | A | 1 | 11 | GF, WA |
| Electrofusion elbow 45°, d32-63 | A | 1 | 11 | GF, WA |
| Electrofusion endcap, d20-63 | A | 1 | 11 | GF, WA |
| Tapping saddle, d40/20-d63/32 | B | 1 | 11 | GF, WA |
| Branch fitting, d110/90-d250/125 | B | 2, 3 | 11 | GF, WA |
| Electrofusion coupler, d20-160 | A | 1, 2 | 11 | GF, WA |
| Electrofusion coupler, d160-315 | A | 2, 3 | 11, 17 | GF, WA |
| Electrofusion coupler, d355-800 | A | 3,4 | 11, 17 | GF, WA |
| Saddle kit, d63/20-d315/63 | B | 1, 2, 3 | 11 | GF |
| Repair saddle, d63-315 | B | 1, 2, 3 | 11 | GF |
| Branch saddle, d63/63-d315/63 | B | 1, 2, 3 | 11 | GF |
| Tapping Tee, d63/20-d225/63 | B | 1, 2 | 11 | GF |

Certificate holder
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Switzerland

The table below specifies the approved raw materials.

| Raw material | Size group | SDR | DK-VAND Valid until | Reports |
|-----------------------------------------------------|------------|--------|---------------------|-----------------------------------------------|
| Electrofusion fittings, PE 100: | | | | DS licence No. 1593 and additional testing |
| ELTEX TUB 121 ·DK-VAND· * | 1, 2, 3 | 11, 17 | 05.05.2023 | DTI 489679 DTI 575669 DHI 11819080 |
| HOSTALEN CRP 100 ·DK-VAND· * | 1, 2, 3 | 11, 17 | 02.10.2023 | DHI 11824564-Ed.2A DHI 11824564-Ed.1A |
| ELTEX TUB 121 N3000 ¹ ·DK-VAND· * | 3 | 11, 17 | 02.10.2023 | DHI 11824564-Ed.3A DHI 11824564-Ed.4A |

¹ Approved only for electrofusion coupler d355-800 (pipe in pipe construction) except d355 which is made of Hostalen CRP 100.