



**CERT**

# DVGW type examination certificate

## DVGW-Baumusterprüfzertifikat

**DV-8602CM0021**

Registration Number  
Registriernummer

**Field of Application**  
*Anwendungsbereich*

products of gas and water supply  
Produkte der Gas- und Wasserversorgung

**Owner of Certificate**  
*Zertifikatinhaber*

Georg Fischer Wavin AG  
Ebnatstraße 111, CH-8201 Schaffhausen

**Distributor**  
*Vertreiber*

Georg Fischer Wavin AG  
Ebnatstraße 111, CH-8201 Schaffhausen

**Product Category**  
*Produktart*

plastic fittings and compression fittings: PE-HD fitting with spigot for butt welding, diameter 75 mm up to 225 mm (8607)

**Product Description**  
*Produktbezeichnung*

PE-HD fitting with spigot for butt welding, diameter 75 mm up to 225 mm

**Model**  
*Modell*

MONOLINE (Wavin)

**Test Reports**  
*Prüfberichte*

laboratory control test: K 20 0058.10 from 13.07.2020 (MPD)  
laboratory control test: K 15 0331.14 from 11.11.2015 (MPD)  
type testing: K 11 1959.1 from 03.01.2012 (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**  
*Prüfgrundlagen*

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.**  
*Ablaufdatum / Aktenzeichen*

07.02.2026 / 20-0921-WNV



03.12.2020 Fk A-1/2

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

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.

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



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

| Type<br><i>Typ</i> | Technical Data<br><i>Technische Daten</i> | Remarks<br><i>Bemerkungen</i> |
|--------------------|-------------------------------------------|-------------------------------|
| MONOLINE (Wavin)   | nominal diameter: 75 mm                   |                               |
| MONOLINE (Wavin)   | nominal diameter: 90 mm                   |                               |
| MONOLINE (Wavin)   | nominal diameter: 110 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 125 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 140 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 160 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 180 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 200 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 225 mm                  |                               |

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

parts: angles, T-pieces, reducers, caps, flange adaptors





**CERT**

# DVGW type examination certificate

## DVGW-Baumusterprüfzertifikat

**DV-8602CM0020**

Registration Number  
Registriernummer

**Field of Application**  
*Anwendungsbereich*

products of gas and water supply  
Produkte der Gas- und Wasserversorgung

**Owner of Certificate**  
*Zertifikatinhaber*

Georg Fischer Wavin AG  
Ebnatstraße 111, CH-8201 Schaffhausen

**Distributor**  
*Vertreiber*

Georg Fischer Wavin AG  
Ebnatstraße 111, CH-8201 Schaffhausen

**Product Category**  
*Produktart*

plastic fittings and compression fittings: PE-HD fitting with spigot for butt welding, diameter up to 63 mm (8602)

**Product Description**  
*Produktbezeichnung*

PE-HD fitting with spigot for butt welding, diameter up to 63 mm

**Model**  
*Modell*

MONOLINE (Wavin)

**Test Reports**  
*Prüfberichte*

laboratory control test: K 20 0058.9 from 13.07.2020 (MPD)  
laboratory control test: K 14 0237.10 from 24.03.2015 (MPD)  
type testing: K 11 1959.1 from 03.01.2012 (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**  
*Prüfgrundlagen*

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.**  
*Ablaufdatum / Aktenzeichen*

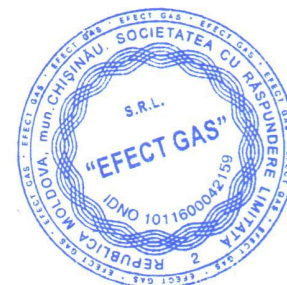
07.02.2026 / 20-0921-WNV

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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**DAkkS**

Deutsche  
Akkreditierungsstelle  
D-ZE-16028-01-05

DVGW CERT GmbH  
Zertifizierungsstelle

Josef-Wirmer-Str. 1-3  
53123 Bonn

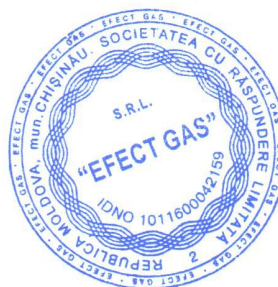
Tel. +49 228 91 88 - 888  
Fax +49 228 91 88 - 993

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

| Type<br>Typ      | Technical Data<br>Technische Daten | Remarks<br>Bemerkungen |
|------------------|------------------------------------|------------------------|
| MONOLINE (Wavin) | nominal diameter: 20 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 25 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 32 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 40 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 50 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 63 mm            |                        |

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

parts: angles, T-pieces, reducers, caps, flange adaptors





CERT

# DVGW type examination certificate

## DVGW-Baumusterprüfzertifikat

**DV-8612CM0022**

Registration Number  
Registriernummer

**Field of Application**  
*Anwendungsbereich*

products of gas and water supply  
Produkte der Gas- und Wasserversorgung

**Owner of Certificate**  
*Zertifikatinhaber*

Georg Fischer Wavin AG  
Ebnatstraße 111, CH-8201 Schaffhausen

**Distributor**  
*Vertreiber*

Georg Fischer Wavin AG  
Ebnatstraße 111, CH-8201 Schaffhausen

**Product Category**  
*Produktart*

plastic fittings and compression fittings: PE-HD fitting with spigot for butt welding, diameter 250 up to 630 mm (8612)

**Product Description**  
*Produktbezeichnung*

PE-HD fitting with spigot for butt welding, diameter 250 up to 630 mm

**Model**  
*Modell*

MONOLINE (Wavin)

**Test Reports**  
*Prüfberichte*

supplement test: K 19 1037 from 21.11.2019 (MPD)  
laboratory control test: K 20 0058.4 from 24.08.2020 (MPD)  
mechanical test: K 09 1433.5 from 06.05.2010 (MPD)  
mechanical test: K 05 1560.6 from 06.01.2006 (MPD)  
type testing: K 16 0297.1+K 16 0297.2 from 24.03.2016 (MPD)  
KTW testing: KR 040/20 from 09.11.2020 (TZW)  
hygienic testing: MO 180/19 from 21.04.2020 (TZW)

**Test Basis**  
*Prüfgrundlagen*

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.**  
*Ablaufdatum / Aktenzeichen*

07.02.2026 / 19-0421-WNV

02.12.2020 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<br><i>Typ</i> | Technical Data<br><i>Technische Daten</i> | Remarks<br><i>Bemerkungen</i> |
|--------------------|-------------------------------------------|-------------------------------|
| MONOLINE (Wavin)   | nominal diameter: 250 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 280 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 315 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 355 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 400 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 450 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 500 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 560 mm                  |                               |
| MONOLINE (Wavin)   | nominal diameter: 630 mm                  |                               |

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

parts: angles, T-pieces, reducers, caps, flange adaptors





**CERT**

# DVGW type examination certificate

## DVGW-Baumusterprüfzertifikat

**DV-8601AR3243**

Registration Number  
Registriernummer

|                                                         |                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Field of Application</b><br><i>Anwendungsbereich</i> | products of gas and water supply<br><i>Produkte der Gas- und Wasserversorgung</i>                                                                                                                                                                                                                                       |
| <b>Owner of Certificate</b><br><i>Zertifikatinhaber</i> | Georg Fischer Wavin AG<br>Ebnetstraße 111, CH-8201 Schaffhausen                                                                                                                                                                                                                                                         |
| <b>Distributor</b><br><i>Vertreiber</i>                 | Georg Fischer Wavin AG<br>Ebnetstraße 111, CH-8201 Schaffhausen                                                                                                                                                                                                                                                         |
| <b>Product Category</b><br><i>Produktart</i>            | plastic fittings and compression fittings: PE-HD electro fusion fitting,<br>diameter up to 63 mm (8603)                                                                                                                                                                                                                 |
| <b>Product Description</b><br><i>Produktbezeichnung</i> | PE-HD electro fusion fitting, diameter up to 63 mm                                                                                                                                                                                                                                                                      |
| <b>Model</b><br><i>Modell</i>                           | MONOLINE (Wavin)                                                                                                                                                                                                                                                                                                        |
| <b>Test Reports</b><br><i>Prüfberichte</i>              | laboratory control test: K 20 0058.1 from 20.07.2020 (MPD)<br>type testing: K 20 0420.1 from 29.06.2020 (MPD)<br>KTW testing: KR 039/20 from 09.11.2020 (TZW)<br>hygienic testing: MO 226/19 from 23.04.2020 (TZW)<br>KTW testing: KR 040/20 from 09.11.2020 (TZW)<br>hygienic testing: MO 180/19 from 21.04.2020 (TZW) |
| <b>Test Basis</b><br><i>Prüfgrundlagen</i>              | DVGW GW 335-B2 (01.09.2004)<br>DVGW GW 335-B2/B1 (01.02.2013)<br>UBA KTW-BWGL (11.03.2019)<br>DVGW W 270 (01.11.2007)                                                                                                                                                                                                   |

**Date of Expiry / File No.** 07.02.2026 / 20-0920-WNV  
**Ablaufdatum / Aktenzeichen**

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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**DAkkS**

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D-ZE-16028-01-05

DVGW CERT GmbH  
Zertifizierungsstelle

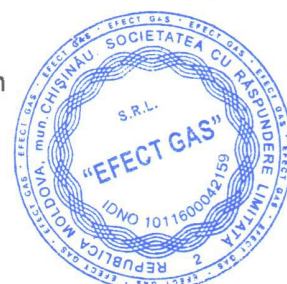
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Fax +49 228 91 88 - 993

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| Type<br>Typ      | Technical Data<br>Technische Daten | Remarks<br>Bemerkungen |
|------------------|------------------------------------|------------------------|
| MONOLINE (Wavin) | nominal diameter: 20 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 25 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 32 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 40 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 50 mm            |                        |
| MONOLINE (Wavin) | nominal diameter: 63 mm            |                        |

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

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





**CERT**

# DVGW type examination certificate

## DVGW-Baumusterprüfzertifikat

**DW-7511CN0263**

Registration Number  
Registriernummer

**Field of Application**  
*Anwendungsbereich*

products of water supply  
*Produkte der Wasserversorgung*

**Distributor**  
*Vertreter*

Georg Fischer Wavin AG  
Ebnatstraße 111, CH-8201 Schaffhausen

**Product Category**  
*Produktart*

material transition fittings: transition on PE-HD for water pipes (7511)

**Product Description**  
*Produktbezeichnung*

material transition adaptor with internal respectively external thread from  
PE 100 to brass respectively steel

**Model**  
*Modell*

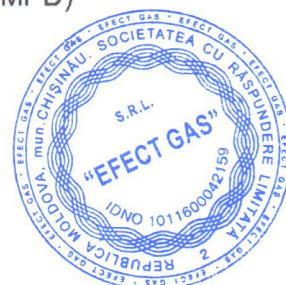
MONOLINE

**Test Reports**  
*Prüfberichte*

laboratory control test: K 19 0092.7 from 14.08.2019 (MPD)  
type testing: K 15 0606.1 from 12.11.2015 (MPD)  
KTW testing: KR 103/19 from 27.11.2019 (TZW)  
hygienic testing: MO 226/19 from 23.04.2020 (TZW)

**Test Basis**  
*Prüfgrundlagen*

DVGW GW 335-B4/(P) (01.04.2014)  
UBA BWGL-Metalle (14.05.2020)  
UBA KTW (07.03.2016)  
DVGW W 270 (01.11.2007)



**Date of Expiry / File No.**  
*Ablaufdatum / Aktenzeichen*

16.10.2025 / 20-0489-WNV



16.07.2020 Fk B-1/2

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

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**DAkkS**

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Akkreditierungsstelle  
D-ZE-16028-01-05

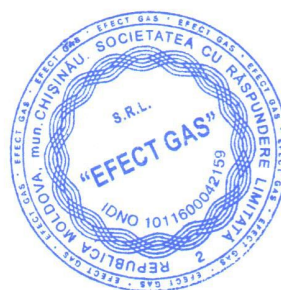
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Zertifizierungsstelle

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53123 Bonn

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

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

| Type<br>Typ | Technical Data<br>Technische Daten | Remarks<br>Bemerkungen                              |
|-------------|------------------------------------|-----------------------------------------------------|
| MONOLINE    | nominal diameter: 20 mm            | with internal/external thread 1/2"                  |
| MONOLINE    | nominal diameter: 25 mm            | with internal/external thread 3/4"                  |
| MONOLINE    | nominal diameter: 32 mm            | with internal/external thread<br>1", 1 1/4", 1 1/2" |
| MONOLINE    | nominal diameter: 40 mm            | with internal/external thread<br>1", 1 1/4", 1 1/2" |
| MONOLINE    | nominal diameter: 50 mm            | with internal/external thread<br>1", 1 1/4", 1 1/2" |
| MONOLINE    | nominal diameter: 63 mm            | with internal/external thread<br>1 1/4", 1 1/2", 2" |





CENTRUL TEHNIC PENTRU SECURITATE  
INDUSTRIALĂ ȘI CERTIFICARE SRL



# CERTIFICAT DE CONFORMITATE

Nr. de înregistrare **OCP<sub>GSP</sub> MD 015 11A 48852-21**

Data emiterii **07 decembrie 2021**

Valabil până la **07 decembrie 2024**

**ORGANISMUL DE CERTIFICARE A PRODUSELOR CU GRAD SPORIT DE PERICOL**  
din cadrul SRL "Centrul Tehnic pentru Securitate Industrială și Certificare", certificat de acreditare OCpr-015,  
MD-2001, mun. Chișinău, str. Meleștiu, 22/A, tel.: 022208156, 022208186

PRIN PREZENTUL DOCUMENT SE CONFIRMĂ FAPTUL, CĂ PRODUSELE IDENTIFICATE ASTFEL:  
**DENUMIREA / DESCRIEREA**

Țevi din polietilenă PE80, PE100, PE100RC pentru conducte de apă  
SDR 11, SDR 13.6, SDR 17, SDR 21, SDR 26,  
gama de diametre: 20mm - 315mm,  
producție în serie

Codul NC MD  
3917

**SUNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN**  
SM EN 12201-2+A1:2016

## PRODUCĂTOR

UNIPLAST SRL  
RM, mun. Chișinău, str. Pădurii, 6/2

Codul țării  
MD

## CLIENT

UNIPLAST SRL  
RM, mun. Chișinău, str. Pădurii, 6/2, tel. 022-558-139

Codul IDNO  
1003600128591

## CERTIFICATUL ESTE ELIBERAT ÎN BAZA

Raportului de evaluare a procesului de producție nr. 348 din 30.11.2021.  
Raportului de evaluare nr. 6/140-ev din 07.12.2021.

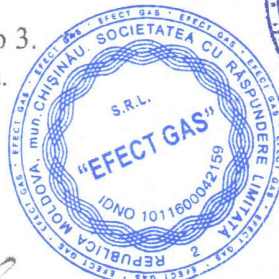
## INFORMAȚIE SUPLIMENTARĂ

Certificatul este eliberat conform schemei de certificare de tip 3.  
Sunt stabilite 2 supravegheri cu periodicitatea de o dată în an.

Seria C nr. **005845**



Conducătorul  
organismului de certificare



Angela Postolache



*În atenția antreprenorilor și organelor de control!*  
Copiile certificatului de conformitate se legalizează în modul stabilit de  
Organismul de Certificare a Produselor cu Grad Sporit de Pericol



CENTRUL TEHNIC PENTRU SECURITATE  
INDUSTRIALĂ ȘI CERTIFICARE SRL



# CERTIFICAT DE CONFORMITATE

Nr. de înregistrare

OCP<sub>GSP</sub> MD 015 13C 48990-21

Data emiterii

23 decembrie 2021

Valabil pînă la

23 decembrie 2022

**ORGANISMUL DE CERTIFICARE A PRODUSELOR CU GRAD SPORT DE PERICOL**  
din cadrul SRL "Centrul Tehnic pentru Securitate Industrială și Certificare", certificat de acreditare OCpr-015, MD-2001, mun. Chișinău, str. Meleștiu, 22/A, tel.: 022208156, 022208186

PRIN PREZENTUL DOCUMENT SE CONFIRMĂ FAPTUL, CĂ PRODUSELE IDENTIFICATE ASTFEL:

## DENUMIREA / DESCRIEREA

Țevi din PVC pentru sisteme de canalizare exterioare, marca comercială OLTGROUP, tipurile, dimensiunile - conform anexei (1 poziție), livrarea conform contractului nr.209 din 02.01.2021, păstrarea: RM, mun. Chișinău, str. Pădurii, 6/2

Codul NC MD  
3917

**SUNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN**  
SM EN 13476-2:2017, p.6, p.7, p.8.1

## PRODUCĂTOR

S.C. PCI TRADING SRL  
jud. Valcea, loc. Rm. Valcea, str. Uzinei, 67, Romania

Codul țării  
RO

## CLIENT

UNIPLAST SRL  
RM, mun. Chișinău, str. Pădurii, 6/2

Codul IDNO  
1003600128591

## CERTIFICATUL ESTE ELIBERAT ÎN BAZA

Raportului de identificare a produselor nr. 6/1113 din 10.12.2021.  
Raportului de încercări nr. 191-T din 21.12.2021,  
eliberat de LÎ ÎM "PALPLAST", certificatul de acreditare nr. LÎ-031.  
Raportului de evaluare nr. 6/147-ev din 23.12.2021.

## INFORMAȚIE SUPLIMENTARĂ

Certificatul este eliberat conform schemei de tip 2.  
Est stabilită o supraveghere cu identificarea de către OC PGSP.  
Certificatul este valabil numai în prezența anexei la certificatul dat



Conducătorul  
organismului de certificare



Angela Postolache



Seria C nr. 0058

*În atenția antreprenorilor și organelor de control!*  
Copiile certificatului de conformitate se legalizează în modul stabilit de  
Organismul de Certificare a Produselor cu Grad Sport de Pericol

CENTRUL TEHNIC PENTRU SECURITATE  
INDUSTRIALĂ ȘI CERTIFICARE SRL

Fila 1 File 1

## Anexă

la certificatul de conformitate

Nr. OC P<sub>GSP</sub> MD 015 13C 48990-21 din 23.12.2021

Lista produselor concrete asupra cărora se extinde acțiunea certificatului de conformitate

| Nr. | Tipuri                   | Dimensiuni, mm |
|-----|--------------------------|----------------|
| 1   | Teava PVC<br>SN2/SN4/SN8 | d 110          |
|     |                          | d 125          |
|     |                          | d 160          |
|     |                          | d 200          |
|     |                          | d 250          |
|     |                          | d 315          |
|     |                          | d 400          |



Seria C nr. 002956



Conducătorul organismului de certificare

Angela Postolache

Anexa nu este valabilă în lipsa certificatului de conformitate

BT Nyloplast GmbH

Oberbernbacher Weg 24

D-86551 Aichach

+49 (0) 8251 - 8995-0

+49 (0) 8251 - 8995-99

Website [www.btnyloplast.com](http://www.btnyloplast.com)

Email [aichach@btnyloplast.com](mailto:aichach@btnyloplast.com)

## National declaration of performance No. 2017.001.001

### 1. The name and trade name of the product:

Fittings made of polyvinyl chloride (PVC-U), diameters:  
DN110, DN125, DN160, DN200, DN250, DN315, DN400

Bends: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400  
Plug: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400  
Coupler: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400  
Reducer: DN 125/110, DN 160/110, DN 160/125, DN 200/160, DN 250/200, DN 315/250, DN 400/315  
Branch: DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160, DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125, DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160, DN 315/200, DN 315/250, DN 315/315, DN 400/160, DN 400/200  
T-piece: DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160, DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125, DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160, DN 315/200, DN 315/250, DN 315/315, DN 400/160.

### 2. Type of product:

Fittings intended to be used outside the building structure, PVC-U, SDR 34 (DN = 110)  
Fittings intended to be used outside the building structure, PVC-U, SDR 41 (DN ≥ 110)

### 3. Intended use or uses:

Drainage and sewerage fittings made of PVC-U, intended to be used outside the building structure (application area code "U") and buried in ground within the building structure and outside the building (marked with "UD").

### 4. Name and address of the producer and place of production of a product::

BT Nyloplast GmbH; Oberbernbacher Weg 24, 86551 Aichach, Germany, plant in Aichach;

### 5. Name and address of the authorized representative if it has been established: not applicable

### 6. The national system used to assess and verification constancy of performance: 4

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## 7. National Technical Specification:

### 7a. Standard:

EN 1401-1:2009

"Plastic piping systems for non-pressure underground drainage and sewerage. Unplasticized poly(vinyl chloride) (PVC-U). Specifications for pipes, fittings and the system"

Name of the accredited certification body, accreditation number and number of national certificate or the name of an accredited laboratory / laboratories and accreditation number:  
not applicable

### 7b. National technical assessment: not applicable

Name of National technical assessment accreditation number and certificate number:  
not applicable

## 8. Declared performance of product:

| Main characteristics of product for the intended use or uses | Declared performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Remarks                                                                                           |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| PVC content                                                  | PVC $\geq$ 85 % in material mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Calculated based on the manufacturer's recipe, EN 1401-1:2009, point. 4.1                         |
| Resistance to internal pressure                              | No failure during the test period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | To be tested in pipe form on DN 50 mm, test conditions in accordance to EN 1401-1:2009, point 4.3 |
| Appearance                                                   | The internal and external surfaces of pipes and fittings shall be smooth, clean and free from grooving, blistering, impurities and pores and any other surface irregularity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                   |
| Colour                                                       | The fittings shall be coloured through the wall.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   |
| Dimensions                                                   | According to the marking on the product:<br>Bends:<br>DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400<br>Plug:<br>DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400<br>Coupler:<br>DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400<br>Reducer:<br>DN 125/110, DN 160/110, DN 160/125, DN 200/160, DN 250/200, DN 315/250, DN 400/315,<br>Branch:<br>DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160, DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125, DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160, DN 315/200, DN 315/250, DN 315/315, DN 400/160, DN 400/200<br>T-piece:<br>DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160, DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125, DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160, DN 315/200, DN 315/250, DN 315/315, DN 400/160 | Dimensional tolerances according to EN 1401-1:2009, point. 6.3 and 6.4                            |
| Mechanical properties                                        | Impact resistance (drop test): no cracks,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test conditions in accordance to EN 1401-1:2009, point 7.2                                        |



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| Main characteristics of product for the intended use or uses | Declared performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remarks                                                                                                                            |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Physical properties                                          | Vicat softening temperature (VST) $\geq 77$ °C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (VST) $\geq 79$ °C -- only for marked with "UD" and DN $\leq 200$ mm<br>Test conditions in accordance to EN 1401-1:2009, point 8.2 |
|                                                              | Effects of heating:<br>- within a radius of 15 times the wall thickness around the injection point(s), the depth of cracks, delamination or blisters shall not exceed 50 % of the wall thickness at that point;<br>- within a distance of 10 times the wall thickness from the diaphragm zone, the depth of cracks, delamination or blisters shall not exceed 50 % of the wall thickness at that point;<br>- within a distance of 10 times the wall thickness from the ring gate, the length of cracks shall not exceed 50 % of the wall thickness at that point;<br>- the weld line shall not have opened more than 50 % of the wall thickness at the line;<br>- in all other parts of the surface the depth of cracks and delaminations shall not exceed 30 % of the wall thickness at that point. Blisters shall not exceed a length 10 times the wall thickness.<br>- After cutting through the fitting, the cut surfaces shall show no foreign particles, when viewed without magnification. | Test conditions in accordance to EN 1401-1:2009 point 8.2                                                                          |
| Leaktightness                                                | Tightness of elastomeric sealing ring joints: no leakage during the water test, tight during the under pressure test (acceptable vacuum change 0.03bar)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test conditions in accordance to EN 1401-1:2009, point 9                                                                           |
|                                                              | Resistance to combined temp. cycling and external loading test: no leakage during the test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Test conditions in accordance to EN 1401-1:2009, point 9                                                                           |

9. The performance of the product identified above are compatible with all listed in Section 8 declared performance. This National declaration of performance is issued in accordance with legal act of 16 April 2004 concerning building products, under the responsibility of the producer.

On behalf of the Producer signed:

*Steffen Kurb*, Teamleader Quality Assurance  
(name, surname and position)

*Aichach, 06.02.2019*

(place and date)

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