



**NARODOWY INSTYTUT ZDROWIA PUBLICZNEGO
- PAŃSTWOWY ZAKŁAD HIGIENY**

**NATIONAL INSTITUTE OF PUBLIC HEALTH
- NATIONAL INSTITUTE OF HYGIENE**

**ZAKŁAD HIGIENY ŚRODOWISKA
DEPARTMENT OF ENVIRONMENTAL HYGIENE**

24 Chocimska 00-791 Warsaw • Phone (22) 5421354; (22) 5421349 • Fax (22) 5421287 • e-mail: sek-zhk@pzh.gov.pl

ATEST HIGIENICZNY

HK/W/0656/01/2015

HYGIENIC CERTIFICATE

ORYGINAL

Wyrób / product: **Hydranty podziemne i nadziemne DN80, DN100, nawiertka przyłączeniowa z opaską DN90-DN225, źródł uliczny, skrzynka przyłączeniowa**

Zawierający / containing: **żeliwo EN-GJL-250, EN-GJS-500-7, mosiądz, stal, stal ocynkowaną, stal nierdzewną/ kwasoodporną, farbę proszkową, HDPE, NBR, EPDM**

Przeznaczone do / destined: **montażu w instalacjach do przesyłania wody przeznaczonej do spożycia przez ludzi i w instalacjach przeciwpożarowych**

Wymieniony wyżej produkt odpowiada wymaganiom higienicznym przy spełnieniu następujących warunków / is acceptable according to hygienic criteria with the following conditions:

- bez zastrzeżeń

Atest nie dotyczy parametrów technicznych wyrobu/Hygienic certificate does not apply to technical parameters of the product.



Wytwórca / producer:

Jarosław Halarewicz, Henryk Bogusz „BOHAMET – ARMATURA” Sp. J.
86-005 Białe Błota
Ciele, ul. Kościelna 2

Niniejszy dokument wydano na wniosek / this certificate issued for:

Jarosław Halarewicz, Henryk Bogusz „BOHAMET – ARMATURA” Sp. J.
86-005 Białe Błota
Ciele, ul. Kościelna 2

Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów przez którąkolwiek stronę. Niniejszy atest traci ważność po 2020-07-09 lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.

The certificate may be corrected or cancelled after appropriate motivation. The certificate loses its validity after 2020-07-09 or in the case of changes in composition or in technology of production.

Data wydania atestu higienicznego: 9 lipca 2015

The date of issue of the certificate: 9th July 2015

Reprodukowanie, kopiowanie, fotografowanie, skanowanie, digitalizacja Atestu Higienicznego w celach marketingowych bez zgody NIZP-PZH jest zabronione.

Kierownik
Zakładu Higieny Środowiska

Bożena Krogulska
dr Bożena Krogulska

prof. T. Podsiady

MINISTERUL SĂNĂTĂȚII AL REPUBLICII MOLDOVA
МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ
РЕСПУБЛИКИ МОЛДОВА
AGENȚIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ
НАЦИОНАЛЬНОЕ АГЕНТСТВО ОБЩЕСТВЕННОГО
ЗДОРОВЬЯ

MD-2028, mun. Chișinău, str. Gheorghe. Asachi, 67 a
Tel. + 373 22 574501, fax + 373 22 729725
IDNO 1018601000021
e-mail: office@ansp.gov.md

DOCUMENTAȚIE MEDICALĂ/ Медицинская документация
FORMULAR/ Форма Nr. 303-2/e
APROBAT DE MS al RM / Утверждена МЗ РМ Nr. 828
от 31.10.11
Centrul de încercări de laborator acreditat de către Centrul
Național de Acreditare din Republica Moldova MOLDAC
Испытательный лабораторный центр аккредитованный
Национальным Аккредитационным Центром РМ MOLDAC
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2026

AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-17041/2023
Санитарное заключение для пищевых и непищевых продуктов
din/от 21 aprilie 2023

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования
Tevi din PE100/PE80 (polietilenă) pentru conducte de apeduct/gazoduct

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))
HG nr.913 din 25.07.2016 Reglementări tehnice cu privire la cerințele minime pentru comercializarea produsele
pentru construcții , HG 278/2013

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер. страна происхождения
UNIPLAST S.R.L., Republica Moldova, mun. Chișinău, sec. Botanica, str. Pădurii, 6/2

Destinatarul avizului sanitar / получатель санитарного заключения
UNIPLAST S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Pădurii, 6/2

Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /
Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило
Demers, certificat de calitate, certificat de conformitate, raport de încercări nr. 51007354 din 21.04.2023
(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:
Parametrii (factorii) / показатели (факторы) **Normativul sanitar / санитарный норматив**
conform rapoartelor încercărilor de laborator nr. 51007354 din 21.04.2023

Domeniu de utilizare / Область применения:
pentru conducte de apeduct/gazoduct

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения,
транспортировки, меры безопасности:
plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 30.04.2026

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Nicolae Jelamschi

Date: 2023.04.21 13:27:21 EEST
Reason: MoldSign Signature
Location: Moldova



AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-17044/2023
Санитарное заключение для пищевых и непищевых продуктов
din/от 21 aprilie 2023

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования
Tevi și fittinguri din PP (polipropilenă)

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))

SF 15787827-001:2020, HG nr.913 din 25.07.2016 Reglementări tehnice cu privire la cerințele minime pentru
comercializarea produsele pentru construcții, HG nr.278 din 24.04.2013

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения

UNIPLAST S.R.L., Republica Moldova, mun. Chișinău, sec. Botanica, str. Pădurii, 6/2

Destinatarul avizului sanitar / получатель санитарного заключения

UNIPLAST S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Pădurii, 6/2

Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /

Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, SF 15787827-001:2020, raport de încercări nr. 51007352 din 21.04.2023

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы)

Normativul sanitar / санитарный норматив

conform rapoartelor încercărilor de laborator nr. 51007352 din 21.04.2023

Domeniu de utilizare / Область применения:

plasarea pe montarea sistemelor de canalizare | piață în condițiile respectării legislației în vigoare în Republica Moldova

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения,
транспортировки, меры безопасности:

plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 30.04.2026

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Date: 2023.04.21 13:29:21 EEST
Reason: MoldSign Signature
Location: Moldova



Nicolae Jelamschi



МІНІСТЕРСТВО ЕКОНОМІЧНОГО РОЗВИТКУ І ТОРГІВЛІ УКРАЇНИ
ДЕРЖАВНА СИСТЕМА СЕРТИФІКАЦІЇ УкрСЕПРО

Серія ВГ

СЕРТИФІКАТ ВІДПОВІДНОСТІ

UA1.044.0204838-13

Зареєстровано в Реєстрі за №
Зареєстровано в Реєстрі

Термін дії з 09 вересня 2013 до 04 вересня 2018
Срок действия с

Продукція
Продукция

Гідранти пожежні надземні та підземні DN 80-125

8481

код УКТ ЗЕД, ТН ЗЕД

код ДКПП ОКП

Відповідає вимогам
Соответствует требованиям

усім обов'язковим ГОСТ 12.2.063-81 'ССБТ. Арматура промышленная трубопроводная. Общие требования безопасности';
ГОСТ 8220-85 'Гидранты пожарные подземные. Технические условия' п.п. 1.1. (табл.1); 2.3; 2.4; 2.5; 2.6; 2.7; 2.18; 2.21

Виробник продукції
Изготовитель продукции

'BOHAMET-ARMATURA' SP. J, Ciele, ul. Koscielna 2, 86-005 Biale Blota, Polska, Польща

Сертифікат видано
Сертификат выдан

'BOHAMET-ARMATURA' SP. J, Ciele, ul. Koscielna 2, 86-005 Biale Blota, Polska, Польща

Додаткова інформація
Дополнительная информация

гідранти пожежні надземні та підземні DN 80-125, що виготовляються серійно з 05.09.2013р. до 04.09.2018р. з проведенням технічного нагляду за сертифікованою продукцією один раз на рік

Сертифікат видано органом з сертифікації
Сертификат выдан органом по сертификации

ДП 'Рівнестандартметрологія', м. Рівне, вул. Замкова, 31, тел. (0362) 225-923, свідоцтво про уповноваження № UA PN .044 від 10.03.2011р.

На підставі
На основании

Протоколів сертифікаційних випробувань № 0509-13-67 від 05.09.2013р., АВЛ 'Тестоп' ТОВ Олбрізсервіс 02093, м. Київ, вул. Російська, 59, атестат акредитації № 2Т 577 від 01.10.2012р., № 311 від 04.09.2013р. АВЛ ДП 'Рівнестандартметрологія', м. Рівне, вул. Замкова, 31, атестат акредитації № 2Н 238 від 30.05.2011р., акту обстеження виробництва № 248-252-Б від 04.09.2013р., звіту № 248-252-Б від 02.09.2013р. за результатами перевірки та оцінки СУЯ

Керівник органу з сертифікації
Руководитель органа по сертификации

М.П.

підпис

А.І. Камінський
ініціали, прізвище

Чинність сертифіката відповідності можна перевірити в Реєстрі системи УкрСЕПРО за тел. (044) 537-35-76

BT Nyloplast GmbH

Oberbernbacher Weg 24

D-86551 Aichach

☎ +49 (0) 8251 - 8995-0

☎ +49 (0) 8251 - 8995-99

Website www.btnyloplast.comEmail 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**

BT Nyloplast GmbH, part of Tessengerlo Group

UST-IDNR.: DE 159.812 055
Registergericht Augsburg HRB 27724
Geschäftsführer: Gabriel Spruijt, Roy Kuipers,
Joep van den Bosch

HypoVereinsbank Augsburg
Kto.-Nr 2 377 543 (BLZ 720 200 70)
IBAN DE24 7202 0070 0002 3775 43
Swift-SIC HYVEDEMM 0B

Münchener Bank eG
Kto.-Nr. 5 715 300 (BLZ 701 900 00)
IBAN DE32 7019 0000 0005 7153 00
Swift-BIC GEN0DEF1M01



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; 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	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

Main characteristics of product for the intended use or uses	Declared performance	Remarks
Physical properties	Vicat softening temperature (VST) ≥ 77 °C.	(VST) ≥ 79 °C – only for marked with "UD" and DN ≤ 200 mm Test conditions in accordance to EN 1401-1:2009, point 8.2
	Effects of heating: <ul style="list-style-type: none"> - 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; - 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; - 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; - the weld line shall not have opened more than 50 % of the wall thickness at the line; - 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. - 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 Kure, Teamleader Quality Assurance

 (name, surname and position)

Aichach, 06.02.2019

(place and date)

BT Nyloplast GmbH
 Oberbernbacher Weg 24
 D-86551 Aichach
 Tel.: +49(0)8251/8995-0 • Fax: +49(0)8251/8995-9
 E-Mail: info@btnyloplast.com
 (signature)

BT Nyloplast GmbH, part of Tessenderlo Group

UST-IDNR.: DE 159.812 055
 Registergericht Augsburg HRB 27724
 Geschäftsführer: Gabriel Spruijt, Roy Kuipers,
 Joep van den Bosch

HypoVereinsbank Augsburg
 Kto.-Nr 2 377 543 [BLZ 720 200 70]
 IBAN DE24 7202 0070 0002 3775 43
 Swift-SIC HYVEDEMM 08

Münchener Bank eG
 Kto.-Nr. 5 715 300 [BLZ 701 900 00]
 IBAN DE32 7019 0000 0005 7153 00
 Swift-BIC GEN0DEF1M01



BT Nyloplast GmbH

Oberbernbacher Weg 24

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☎ +49 (0) 8251 - 8995-99

Website www.btnyloplast.comEmail 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**

BT Nyloplast GmbH, part of Tessengerlo Group

UST-IDNR.: DE 159.812 055
Registergericht Augsburg HRB 27724
Geschäftsführer: Gabriel Spruijt, Roy Kuipers,
Joep van den BoschHypoVereinsbank Augsburg
Kto.-Nr 2 377 543 (BLZ 720 200 70)
IBAN DE24 7202 0070 0002 3775 43
Swift-SIC HYVEDEMM 0BMünchener Bank eG
Kto.-Nr. 5 715 300 (BLZ 701 900 00)
IBAN DE32 7019 0000 0005 7153 00
Swift-BIC GEN0DEF1M01

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; 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	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

Main characteristics of product for the intended use or uses	Declared performance	Remarks
Physical properties	Vicat softening temperature (VST) ≥ 77 °C.	(VST) ≥ 79 °C – only for marked with "UD" and DN ≤ 200 mm Test conditions in accordance to EN 1401-1:2009, point 8.2
	Effects of heating: <ul style="list-style-type: none"> - 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; - 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; - 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; - the weld line shall not have opened more than 50 % of the wall thickness at the line; - 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. - 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 Kure, Teamleader Quality Assurance

 (name, surname and position)

Aichach, 06.02.2019

(place and date)

BT Nyloplast GmbH
 Oberbernbacher Weg 24
 D-86551 Aichach
 Tel.: +49(0)8251/8995-0 • Fax: +49(0)8251/8995-99
 E-Mail: info@btnyloplast.com
 (signature)

BT Nyloplast GmbH, part of Tessenderlo Group

UST-IDNR.: DE 159.812 055
 Registergericht Augsburg HRB 27724
 Geschäftsführer: Gabriel Spruijt, Roy Kuipers,
 Joep van den Bosch

HypoVereinsbank Augsburg
 Kto.-Nr 2 377 543 [BLZ 720 200 70]
 IBAN DE24 7202 0070 0002 3775 43
 Swift-SIC HYVEDEMM 08

Münchener Bank eG
 Kto.-Nr. 5 715 300 [BLZ 701 900 00]
 IBAN DE32 7019 0000 0005 7153 00
 Swift-BIC GEN0DEF1M01



CERTIFICAT DE CONFORMITATE

Nr. de înregistrare

OCP_{GSP} 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. Melestiu, 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



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DV-8601AQ3257

Registration Number
Registriernummer

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

702E-04-A-DE

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 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



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DV-8606AQ3258

Registration Number
Registriernummer

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 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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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

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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: 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



DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DV-8611AQ3259

Registration Number
Registriernummer

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 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 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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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

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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

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
 DANCERT A/S


 Jørgen Baadsgaard-Jensen
 CEO

Date of valid edition

12-11-2020

No.

2038

Date of first issue

16-10-2006

Page

2 of 2

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
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, 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.

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



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DV-8601AQ3257

Registration Number
Registriernummer

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

702E-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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Deutsche
Akkreditierungsstelle
D-ZE-16028-01-05

DVGW CERT GmbH
Zertifizierungsstelle

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53123 Bonn

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Fax +49 228 91 88 - 993

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info@dvgw-cert.com

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



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DV-8606AQ3258

Registration Number
Registriernummer

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 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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D-ZE-16028-01-05

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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



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DV-8611AQ3259

Registration Number
Registriernummer

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 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
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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

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
 DANCERT A/S


 Jørgen Baadsgaard-Jensen
 CEO

Date of valid edition

12-11-2020

No.

2038

Date of first issue

16-10-2006

Page

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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
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, 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.

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
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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

	LABORATORY OF FIRE EXTINGUISHING AGENTS AND EQUIPMENT	
	Scientific and Research centre for fire protection	CNBOP - PIB
	Nadwiślańska Street 213, 05-420 Józefów phone numbers: telephone exchange: +48 22 769 32 00, www.cnbop.pl; secretariat: +48 22 769 33 00, e-mail: cnbop@cnbop.pl fax: +48 22 769 33 56	

TECHNICAL OPINION NO 172/BU/17

13 pages

PRINCIPAL (name and address)	BOHAMET - ARMATURA Sp. J Kościelna Street 2, Ciele 86-005 Białe Błota
TEST SAMPLE'S (product, object), description and identification	UNDERGROUND HYDRANT DN 100 PN 10/16 type HP - M
PRODUCT MANUFACTURER (testing object)	BOHAMET - ARMATURA Sp. J Kościelna Street 2, Ciele 86-005 Białe Błota

Copy of the technical opinion	1
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ZA ZGODNOŚĆ Z ORYGINAŁEM
„BOHAMET-ARMATURA” SP.J.

Henryk Bogusz

„BOHAMET-ARMATURA” SP.J.

14.03.2018
DATA

POŚCISZ

wspólnik „BOHAMET-ARMATURA” s.j.

Specjalista ds. kontroli jakości i nadzoru BHP
Tomasz Chodera

Jarosław Halarewicz, Henryk Bogusz
„BOHAMET-ARMATURA” SP.J.
Ciele, ul. Kościelna 2, 86-005 Białe Błota
NIP 554-23-42-840 • REGON 092535146
KRS 0000109728

Józefów, 12 of May 2017



PROGRAM REGIONALNY
NARODOWA STRATEGIA SPÓJNOŚCI



WOJEWÓDZTWO
KUJAWSKO-POMORSKIE

UNIA EUROPEJSKA
EUROPEJSKI FUNDUSZ
ROZWOJU REGIONALNEGO



Mój region w Europie

CNBOP - PIB	TECHNICAL OPINION nr 172/BU/17	2/13
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1. FORMAL BASIS FOR THE EXAMINATION OF TESTS

The ordering letter of 17 of March 2017.
The agreement no 172/BU/17 of 26 of April 2017.

Henryk Bogusz

wspólnik „BOHAMET-ARMATURA” s.j.

2. TESTING SAMPLES / OBJECTS

2.1. Product/object name, type, size and other indications.

Single-closed underground hydrant DN 100 PN 10/16 type HP
(optional with extra ball seal).

The single-closed underground hydrant DN 100 PN 10/16 type HP (optional with extra ball seal) is intended for the water abstraction with the general purpose pipeline with a diameter of minimum 100 mm.

Hydrants are equipped with single closure (the mushroom valve) and dehydration (drainage) device, located in the valve body.

The upper part of hydrant has a connection in the form of thread 6", which is made of brass and secure the rubber guard with EPDM.

(picture))

Jarosław Halarewicz, Henryk Bogusz
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NIP 554-23-42-840 • REGON 092535146
KRS 0000109728

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14.03.2018
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2.3. The manner of accepting the sample for the test and the method of its storage.

The principal took 1 sample for testing of parti of 1, by the sampling protocol PS/33/30.04.2014 and delivered by forwarding into the lab. According to the sampling protocol, it is representative of the current production process.

The samples were received in the laboratory by the delivery and acceptance protocol on 4 of April 2017.

The manufacturer attached to the samples:

- list of parts and materials
- technical description of the DN 100PN 10 type HP/M underground hydrant B24

- manufacturer's declaration for underground hydrant type HP-M DN 100

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Specjalista ds. kontroli jakości i nadzoru BHP

Tomasz Chodera

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3. TEST AND METHODS OF TESTING

3.1. Methods of testing for single-closed underground hydrant DN 100 PN 10/16 type HP-M

Specjalista ds. kontroli jakości i nadzoru BHF
Tomasz Chodera

Accepted Standard	GOST P53961 – 2010 underground fire hydrants	
L.p.	Feature tested	Technical requirements. Testing methods. ⁽¹⁾
1	General technical requirements.	5.1
2	Basic parameters and characteristics.	5.2.1, 5.2.2
3	Construction requirements.	
4	Ergonomics requirements	
5	Mechanical strength of the hydrants.	
6	Requirements for materials and semi-finished products	
7	Completeness.	
8	Marking (signing)	
9	Packaging, storage and transport	

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Verification of the requirements on the basis of documentation and declarations provided by the manufacturer.

¹⁾ The tests for this Technical Opinion are non-accredited by PCA.

3.3 The date of the test.

Tests were done on days 09-12 of May 2017.

Henryk Bogusz

wspólnik „BOHAMET-ARMATURA” s.j.

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4. TESTS RESULT.

Single-closed underground hydrant DN 100 PN 10/16 type A.

L.P.	FEATURE TESTED	Requirements according to GOST P 53961-2010	Result	statement of compliance/non-compliance with the requirements
1	Hydrant produced in accordance with the requirements of this standard.	5.1.	positive	compatible
2	1. Operating pressure Pp' Mpa (kgf*cm-2), no more than	5.2.1	PN 10 till PN 16	compatible
	2. the height of the hydrant H, mm		from 500 to 3500 inclusive	
	3. Inner diameter of the body DN		107	
	4. Valve adaptors, mm		from 24 to 30 inclusive	
	5. shank clearance based on by the axis, no more than		0,4	
	6. number of spindle revolutions to fully open the hydrant		14	
	7. hydraulic resistance in a hydrant S, c2*m-5 , no more than*, with H=1000 mm			
	8. hydrant mass at H=1000 mm, kg, not more		35	
Change of hydraulic resistance for every 250 mm of height, no more than 0,05*103*c2 *m-5				
The weight change for every 250 mm height - no more than 10 kg				
The hydrant corresponds to the following reliability indicators:		5.2.2	10 years not less than a year not less than 200 cycles	compatible
full work period				
- preservation of paramenters during storage throughout the period				
fixed quantity of efficient work feasibility (cycles of action)				
3.	The hydrant body construction provides durability at hydraulic pressures exceeding 1.5 times the working pressure	5.3.1	positive no signs of cracking	compatible

Henryk Bogusz
 Wspólnik BOHAMET-ARMATURA s.j.

Jarosław Halarewicz, Henryk Bogusz
BOHAMET-ARMATURA
 Ciele, ul. Kościelna 2, 86-005 Białe Błota
 WP 554-23-42-840 - REGON 14109728
 KRS 0000109728

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BOHAMET-ARMATURA SP.
 Specjalista ds. kontroli jakości i nadzoru BI
 Tomasz Chodera

CNBOP - PIB	TECHNICAL OPINION nr 172/BU/17	5/13
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The hydrant construction in place keeps hermetic connections and seals under operating pressure	5.3.2	no signs of leakage or dripping of liquids through the walls of the body parts, as well as in places of movable connections and by sealing the stem/ positive result	compatible
Hydrant construction	5.3.3	ensures its opening and closing during the whole working pressure range	compatible
Hydrant equipped with a device for draining water left after work	5.3.4	quantity remaining water 0,00 ml / positive result	compatible
hydrant valve and hydrant drive	5.3.5	can withstand axial force not less than 3*104 H (3*103kgf)	compatible
construction and fixing of the hydrant connector	5.3.6	excludes turning the fitting when screwing in the fire rack in accordance with the National Standard P 53250 positive result	compatible
threaded part of the hydrant connector	5.3.7	Equipped with a hinged lid. The construction of the lid does not interfere with the free installation of the fire protection rack positive result	compatible

"BOHAMET-ARMATURA" SP.J.

Specjalista ds. kontroli jakości i nadzoru BHP
Tomasz Chodera

Henryk Bogusz

ZA ZGODNOŚĆ Z ORYGINAŁEM
"BOHAMET-ARMATURA" SP.J.

14.03.2018
 DATA

wspólnik „BOHAMET-ARMATURA” s.j.

Jarosław Halarewicz, Henryk Bogusz
"BOHAMET-ARMATURA" SP.J.
 Ciele, ul. Kościelna 2, 86-005 Białe Błota
 tel. 2-840 • REGON 092535146
 KRS 0000109728



PROGRAM REGIONALNY
 NARODOWA STRATEGIA SPÓJNOŚCI



WOJEWÓDZTWO
 KUJAWSKO-POMORSKIE

UNIA EUROPEJSKA
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Mój region w Europie

CNBOP - PIB	TECHNICAL OPINION nr 172/BU/17	6/13
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	The square of stem for connecting the hydrant with the fire rack key	5.3.8	22 x 22 mm; square dimensions - accurate to the 12th degree of accuracy of the State Standard 25347. The square surface has a hardness of ~28HRC.	compatible
4.	Controls for closing devices.	5.4.1	The hydrant moves smoothly when working within a set range. Positive result.	compatible
	Open / close force of the hydrant valve with the fire rack key (or threaded valve with a special key).	5.4.2	Does not exceed 90 Nm. Positive result.	compatible
5.	Production under specific climatic conditions.	5.5.1	Temperate and cold climate, State Standard 15150 category 1.1. Positive result.	compatible
	Sets and parts of a hydrant: the cycle should be understood as: full opening of the hydrant; work within no less than 1 min at operating pressure; full hydrant closure; draining the water through the drain valve.	5.5.2	Manufactured from materials with mechanical and anti-corrosive properties that ensure the ability to work with water when operating under specified operating conditions. Positive result.	compatible
	The hydrant valve ring.	5.5.3	Manufactured from frost-proof NBR rubber with an increased hardness of 70± Sh according to the State Standard 7338. Positive result.	compatible

"BOHAMET-ARMATURA" SP.J.

Specjalista ds. kontroli jakości i nadzoru

Tomasz Chodera

ZA ZGODNOŚĆ Z ORYGINAŁEM
"BOHAMET-ARMATURA" SP.J.

14.03.2018
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	Arrangements with the orderer.	5.5.4	The manufacturer does not use additional protective coatings (painting with powder varnish).	compatible
	Varnish coatings of the external surface of the hydrant.	5.5.5	<p>In accordance with National Standard 9.032, with a class not lower than VI for operating conditions in temperate and cold climates, 4 according to the State Standard 9.104.</p> <p>Preparation of metal surfaces before painting - according to the National Standard 9.402.</p> <p style="text-align: center;">Positive result.</p>	compatible
	<p>Welding of hydrant flanges.</p> <p>Other welded joints of steel structures</p>	5.5.6	<p>In accordance with State Standard 16037, In accordance with State Standard 5264 and Manufacturer's Technical Documentation</p> <p>Sticking, spouts of welds, flooding, arson, shifting of welded parts, as well as other defects that affect the quality and reliability of hydrants do not occur.</p> <p style="text-align: center;">Positive result.</p>	compatible

"BOHAMET-ARMATURA" SP.J.

Specjalista ds. kontroli jakości i nadzoru BHP
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Mój region w Europie

CNBOP - PIB	TECHNICAL OPINION nr 172/BU/17	8/13
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6.	Supplied materials and products used in the production of hydrant parts.	5.6.1	Accepted by the input control with checking their quality and necessary documentation. Positive result.	compatible
	Materials used. Chemical-physical properties of starting materials, hardness and roughness of their surface.	5.6.2	They have certificates or labels confirming their compliance with standards, technical conditions or other normative documentation. They correspond to the standards, technical conditions of their production, as well as the purpose and conditions of work of the parts of hydrants produced from them. Positive result.	compatible
	Moulding (casting) hydrant. Deviations in the dimensions and weight of gray cast iron castings	5.6.3	According to the State Standard 26358. According to the 3rd class accuracy of State Standards P 53464. Positive result.	compatible
	On the friction surfaces are machined die-cast parts (flanges, bodies, connector, valve body).	5.6.4	No occurrence of dentures, slag impurities, cracks and other defects of the cast.	compatible

"BOHAMET-ARMATURA" SP.J.

Specjalista ds. kontroli jakości i nadzoru BHP

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PROGRAM REGIONALNY
NARODOWA STRATEGIA SPÓJNOŚCI

ZA ZGODNOŚĆ Z ORYGINAŁEM
"BOHAMET-ARMATURA" SP.J.

14.03.2018
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WOJEWÓDZTWO
KUJAWSKO-POMORSKIE

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Mój region w Europie

CNBOP - PIB	TECHNICAL OPINION nr 172/BU/17	9/13
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Mechanical and anti-corrosion properties, material of the threaded part of the junction.	5.6.5	They have the same good properties as the "LK1" brass properties of the State Standard or the "Br 05C5S5" bronze of the State Standard. Positive result.	compatible
Material of the hydrant stem.	5.6.6	Steel 1.4021 is just as good as marji steel 30x13 State Standard 5632.	compatible
Valve seals (bead seat).	5.6.7	Made of a material with basic properties not lower than that of the "LK1" brand of the State Standard or bronze standard brand "Br 05C5S5" of the State Standard.	compatible
Production technology of hydrantes with one typical size.	5.7	It secures full volatility of it's assembly units and parts.	compatible
Hydrants's components.	5.8	No traces of corrosion, dents, dints, cracks and other mechanical damage. Acute angles and the edges of the parts are polished.	compatible

"BOHAMET-ARMATURA" SP.J.

Specjalista ds. kontroli jakości i nadzoru BHP
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PROGRAM REGIONALNY
 NARODOWA STRATEGIA SPÓJNOŚCI

ZA ZGODNOŚĆ Z ORYGINAŁEM
 „BOHAMET-ARMATURA” SP.J.

14.03.2018
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	<p>Metric threads:</p> <p>Internal threads – 7H</p> <p>External threads -8 g; (trapezoidal threads)</p>	5.9	<p>Made in accordance with the 24705 State Standard with tolerance fields according to the 16093 State Standard.</p> <p>Made in accordance with the 24705 State Standard with tolerance fields according to the 16093 State Standard.</p> <p>Made in accordance with the 24738 State Standard.</p> <p>Cracks, local interruptions and irregularities on the surface of the threads do not occur if their depth goes beyond the limits of the average thread diameter and their overall length exceeds half the length of the convolution.</p>	compatible
	Fastening of individual parts, assembly units.	5.10	Excludes their automatic loosening and unscrewing when using a hydrant.	compatible
7.	The complete delivery of the hydrant includes:	5.11	Assembly products, provided for in the Product Technical Documentation, certificate, technical description, operating manual or one document replacing them, prepared in accordance with the State Standard. Positive result.	compatible

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 „BOHAMET-ARMATURA” SP
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„BOHAMET-ARMATURA” SP.J.
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	TECHNICAL OPINION nr 172/BU/17 tel. +48 (52) 581 67 52	

8.	Labeling.	5.12.1	The hydrants's labeling corresponds to the requirements of the manufacturer's Technical Documentation. Positive result.	compatible
	The label should contain the following information: Manufacturer's name or trade mark; contractual hydrant designation, according to the procudent system; Serial number; Height of the hydrant, mm; Inner diameter of the DN body; Year of production; Producer's country name	5.12.2	BOHAMET - ARMATURA UNDERGROUND HYDRANT DN 100 PN 10/16 type HP - M cat. no 11.291.100-1250 1250 mm DN 100 2017 Poland Positive result.	compatible
9.	Cleansing and drying.	5.13.1	Before packaging, the hydrant is cleaned, the flue liners are dried.	compatible
	Exposed threads and unpainted surfaces of metal parts.	5.13.2	Covered with Press-Solidol, in accordance with the 4366 State Standard, variant of protection B3-I, B3-2. The period of validity of the hydrant maintenance is 24 months. The usage documentation should include: date of maintenance, set period of protection without re-maintenance and degreasing method. Positive result.	compatible

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 Specjalista ds. kontroli jakości i nadzoru BI
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PROGRAM REGIONALNY
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Maintenance.	5.13.3	The top hole is covered with a plug and the bottom opening remains open for easier assembly.	compatible
Packing.	5.13.4	The hydrant is wrapped in a scrim foil, sealed with tape, and then placed on a pallet with wooden spacers. Other packaging may be used to ensure product safety during transport and storage. Packing is done to exclude shifting of the hydrant in the packaging during loading, transport and unloading.	compatible
Package.	5.13.5	It has the labeling in accordance with the requirements of the 14192 State Standards.	compatible
Technical and operational documentation.	5.13.6	Placed in a watertight container with a hydrant with the inscription: "Documentation".	compatible

"BOHAMET-ARMATURA" SP. J. SPÓŁNOŚĆ Z ORYGINAŁEM
"BOHAMET-ARMATURA" SP. J.
 Specjalista ds. kontroli jakości i nadzoru BHP
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 DATA 03.10.18
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PROGRAM REGIONALNY
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Mój region w Europie

CNBOP - PIB	TECHNICAL OPINION nr 172/BU/17	13/13
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5. DECLARATIONS AND RESERVATIONS

The test results refer only to the tested sample of the product / test object. Without the written permission of the Laboratories Team, the report may not be reproduced (copied), otherwise than in its entirety.

The test report has been prepared in 3 copies.

THE END.

Technical documentation was prepared by:	tech. Krzysztof Bocian	12.05.2017
	qualification, name and surname	date and signature
The person approving the technical opinion:	inż.. Daria Kubis	12.05.2017
	qualification, name and surname	date and signature

"BOHAMET-ARMATURA" SP.J.

Specjalista ds. kontroli jakości i nadzoru BHP

Tomasz Chodera

ZA ZGODNOŚĆ Z ORYGINAŁEM
"BOHAMET-ARMATURA" SP.J.

14.03.2018
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PROGRAM REGIONALNY
 NARODOWA STRATEGIA SPÓJNOŚCI



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Mój region w Europie



MINISTERUL AFACERILOR INTERNE
AL REPUBLICII MOLDOVA

INSPECTORATUL GENERAL PENTRU SITUAȚII DE URGENȚĂ

CERTIFICAT

de apărare împotriva incendiilor la materiale de construcție și la construcții

seria CSI nr. 049-17 din 18.12.2017
Termen de valabilitate nelimitat

Solicitant: SRL „UNIPLAST”, mun. Chișinău, str. Padurii, 6/2.

Scopul: determinarea stării de funcționare a hidrantului subteran „DN 100 PN 10/16 tip HP-M”, producător „Bohamet-Armatura”, Polonia.

Materialul: hidrant subteran „DN 100 PN 10/16 tip HP-M”, producător „Bohamet-Armatura”, Polonia.

Prezentul certificat confirmă că, **hidrantul subteran „DN 100 PN 10/16 tip HP-M”, producător „Bohamet-Armatura”, Polonia**, prezentat de către SRL „UNIPLAST”, mun. Chișinău, str. Padurii, 6/2, **este funcționabil** conform standardelor în vigoare din Republica Moldova și **poate fi utilizat pe teritoriul Republicii Moldova**.

Domeniul de folosire conform „Normativului în Construcții. Protecția împotriva incendiilor a clădirilor și instalațiilor” NCM E. 03.02-2014.

Certificatul este eliberat în conformitate cu art. 32 a Legii nr. 267-XIII „Privind apărarea împotriva incendiilor” în baza „Сертифікат Відповідності” nr.UA1.044.0204838-13, prezentat în Secția Laboratorului experimental antiincendiar a IGSU al MAI RM.

Șeful adjunct IGSU
Șeful Direcției salvatori și pompieri
colonel al s/intern



Anatolie Viniciuc
L. Ș.

Anatolie Viniciuc

ex. S. Chircu, V. Gașpar
tel. 022-25-14-90

seria CSI nr. 049-17



**MINISTERUL AFACERILOR INTERNE
AL REPUBLICII MOLDOVA**

**SERVICIUL PROTECȚIEI CIVILE ȘI
SITUAȚILOR EXCEPȚIONALE**

CERTIFICAT

**de apărare împotriva incendiilor la materiale de construcție și la construcții
seria CSI nr. 017-17 din 25.04.2017
Termen de valabilitate nelimitat**

Solicitant: SRL „UNIPLAST”, mun. Chișinău, str. Padurii, 6/2.

Scopul: determinarea stării de funcționare a hidrantului subteran „HP6 DN 80
PN16”, producător „Bohamet-Armatura”, Polonia.

Materialul: hidrant subteran „HP6 DN 80 PN16”, producător „Bohamet-
Armatura”, Polonia.

Prezentul certificat confirmă că, hidrantul subteran „HP6 DN 80
PN16”, producător „Bohamet-Armatura”, Polonia, prezentat de către SRL
„UNIPLAST”, mun. Chișinău, str. Padurii, 6/2, este funcționabil conform
standardelor în vigoare din Republica Moldova și poate fi utilizat pe teritoriul
Republicii Moldova cu condiția respectării prevederilor pct. 4.3 și pct. 8.14
din „Normativului în Construcții. Protecția împotriva incendiilor a
clădirilor și instalațiilor” NCM E. 03.02-2014.

Certificatul este eliberat în conformitate cu art. 32 a Legii nr. 267-XIII
„Privind apărarea împotriva incendiilor” în baza Certificatului de Constatere a
Performanței nr. 1438-CPR-0344, prezentat în Secția Laboratorului experimental
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Șeful adjunct SPC și SE
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seria CSI nr. 017-17



CERTIFICAT DE CONFORMITATE

Nr. de înregistrare

13 C001747-21

Data emiterii: 06 mai 2021

Valabil pînă la: 06 mai 2022

CertMatCon

ORGANISMUL DE CERTIFICARE

CERTMATCON mun. Chișinău, str. Uzinelor, 4/2, etaj 4, of. 4, MD2023, tel. 022-903-001; cell. 078-191-001,
e-mail: office@certmatcon.md, WWW.CERTMATCON.MD.

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

Valve de mixare și părți pentru ele, robinete sferice, armatură conform catalogului
"Remer Rubinetterie" Spa, Italia.

Contract Nr. 660068 din 19.01.2005 cu "Remer Rubinetterie" Spa, Italia.

Codul NCM

8481

SÎNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN:

RNI 06-5.3.35:2001 pct. 2.2; SM EN 817:2017 pct. 6.2 tab.3, pct. 6.3 tab. 4, pct. 6.4 tab. 5.

PRODUCĂTOR

"Remer Rubinetterie" Spa, Italia.

Codul țării

IT

SOLICITANT

"DAKON" S.A.
str. Pădurii, 6, mun. Chișinău, Republica Moldova.

IDNO

1003600089672

CERTIFICATUL ESTE ELIBERAT ÎN BAZA:

Raport de evaluare final Nr. 972 din 05.05.2021, eliberat de OC "CertMatCon", mun. Chișinău,
str. Uzinelor, 4/2, etaj 4, of. 4, MD 2023; Raport de încercări Nr. 53 din 22.04.2021, eliberat de
Centrul de Încercări, Expertiză și Cercetare (CÎEC) din cadrul "CERTMATCON" SRL, mun. Chișinău,
str. Feredeului, 12, MD 2005; Raport de încercări Nr. 041/3 din 27.04.2021, eliberat de Centrul de Încercări,
Expertiză și Cercetare (CÎEC) din cadrul "CERTMATCON" SRL, mun. Chișinău, str. Feredeului, 12, MD 2005.

INFORMAȚIISUPLIMENTARĂ:

Schema 2, conform SM SR EN ISO/CEI 17067:2014. Certificatul este valabil doar în cazul asigurării cu
informație în limba de stat la fiecare ambalaj de produs conform legislației în vigoare. Certificare benevolă.
Domeniu nereglementat. Contract de prestări servicii Nr. 21/2019 din 25.02.2019.

Seria V № 000561



Conducătorul OC

PUHA Ion



În atenția antreprenorilor și organelor de control!
Copiile certificatelor de conformitate se legalizează în modul stabilit de
OC „CERTMATCON“, informații pe www.certmatcon.md

Falsificarea certificatelor se pedepsește conform legislației



acreditat pentru
CERTIFICARE



SR EN ISO/CEI 17021-1:2015
CERTIFICAT DE ACREDITARE
SM 004



C E R T I F I C A T

SRAC certifică organizația/ certifies the organization

UNIPLAST SRL

Str. Pădurii, 6/2, Chișinău, Republica Moldova

**pentru următoarele activități/
for the following fields of activities**

Fabricarea țevilor din material plastic

Plastic pipe manufacturing

că are implementat și menține un
sistem de managementul calității
conform condițiilor din standardul

which has implemented and maintains a
quality management system
which fulfils the requirements of the standard

SR EN ISO 9001:2015 (ISO 9001:2015)



Valabilitatea certificatului este condiționată de
efectuarea supravegheților anuale până la data de:



12-
2025

12-
2026

nr. certificat/ certificate registration no. **13068**
data inițială a certificării/ initial certification date **05 decembrie 2024**
data recertificării/ recertification date -
data ultimei actualizări/ last update -
valabil până la/ valid until **04 decembrie 2027** (cu condiția vizării anuale)
SRAC CERT SRL, Str. Vasile Pârvan Nr. 14, Sector 1, București www.srac.ro

Director General
Ing. Mihaela Cristea





Building trust together.

Certificate

SRAC has issued an IQNET recognized certificate that the organization:

UNIPLAST SRL

Str. Pădurii, 6/2, Chişinău, Republica Moldova

has implemented and maintains a
Quality Management System

for the following scope:

Plastic pipe manufacturing

which fulfils the requirements of the following standard:

ISO 9001 : 2015

Issued on: 2024 - 12 - 05
First issued on: 2024 - 12 - 05
Expires on: 2027 - 12 - 04

Registration Number: RO – 13068

Alex Stoichitoiu
President of IQNET

eng. Mihaela Cristea
SRAC General Manager



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**ДЕКЛАРАЦИЯ ПРОИЗВОДИТЕЛЯ НА ГИДРАНТ ПОДЗЕМНЫЙ ТИП НР-М DN100 В
СООТВЕТСТВИИ С НОРМАМИ ГОСТ ГОСУДАРСТВЕННОГО СТАНДАРТА Р
53961-2010**

Гидрант подземный НР-М DN100

5 Общие технические требования

5.1 Гидрант изготавливается в соответствии с требованиями настоящего стандарта.

5.2 Основные показатели и характеристики

5.2.1 Показатели назначения гидранта имеют значения, соответствующие указанным в таблице 1.

Таблица 1

Наименование параметра	Значение		
1. Рабочее давление P_p МПа ($\text{кгс} \cdot \text{см}^{-2}$), не более	До PN16		
2. Высота гидранта Н, мм	От 500 до 3500 включительно		
3. Внутренний диаметр корпуса DN	107		
4. Ход клапана, мм	От 24 до 30 включительно		
5. Люфт шпинделя в опоре по оси, мм, не более	0,4		
6. Число оборотов штанги (штока) до полного открытия гидранта	14		
7. Гидравлическое сопротивление в гидранте S , $\text{с}^2 \cdot \text{м}^{-5}$, не более чем, при $H = 1000$ мм	$1,3 \cdot 10^3$	$1,2 \cdot 10^3$	$1,1 \cdot 10^3$
8. Масса гидранта при $H = 1000$ мм, кг, не более чем	35		
* Изменение гидравлического сопротивления на каждые 250 мм высоты - не более чем $0,05 \cdot 10^3 \cdot \text{с}^2 \cdot \text{м}^{-5}$			
** Изменение массы на каждые 250 мм высоты - не более чем 10кг			

5.2.2 Гидрант соответствует следующим показателям надежности:

- полный срок службы - 10 лет;
- срок сохраняемости показателей во время хранения - не менее 1 год;
- установленная безотказная наработка - не менее 200 циклов* .

5.3 Требования к конструкции

5.3.1. Конструкция корпуса гидранта обеспечивает прочность при гидравлическом давлении, в 1,5 раза превышающем рабочее давление. При таком давлении не появляются разрывы и другие заметные остаточные деформации.

5.3.2 Конструкция гидранта в сборе сохраняет герметичность соединений и уплотнений при рабочем давлении. Не появляются подтеки и каплеобразование через стенки корпуса и задвижки, а также в местах неподвижных соединений и через уплотнение шпинделя.

5.3.3 Конструкция гидранта обеспечивает его открытие и закрытие во всем рабочем диапазоне давления.

5.3.4 Гидрант оснащен устройством для слива оставшейся после работы воды. Количество оставшейся воды в гидранте после работы не должно превышать 100 мл (в такого типа гидранте количество оставшейся воды равняется 0 мл).

5.3.5 Клапан гидранта и его привод выдерживают осевую нагрузку не менее $3 \cdot 10^4$ Н ($3 \cdot 10^3$ кгс).

5.3.6 Конструкция и крепление ниппеля гидранта исключают возможность проворачивания ниппеля при накручивании колонки пожарной по Государственному Стандарту [ГОСТ] Р 53250.

5.3.7 Резьбовая часть ниппеля гидранта оснащена откидной крышкой. Конструкция крышки не препятствует свободному наворачиванию колонки пожарной.

5.3.8. Квадрат штанги для соединения гидранта с ключом колонки пожарной (штока для открытия и закрытия задвижки гидранта специальным ключом) - 22 x22 мм; размеры квадрата - с точностью по 12-му качеству Государственного Стандарта [ГОСТ] 25347.

Поверхность квадрата имеет твердость от ~28 HRC.

5.4 Требования эргономики

5.4.1 Органы управления запорными устройствами гидранта плавно перемещаются при работе в установленном диапазоне.

5.4.2 Усилие открытия (закрытия) клапана гидранта ключом колонки пожарной (либо задвижки специальным ключом) не превышает 90 Нм.

5.5 Требования стойкость к внешним воздействиям

5.5.1 Гидрант изготавливается в климатическом исполнении - умеренный и прохладным климат, категория 1.1 по Государственному Стандарту [ГОСТ] 15150.

5.5.2 Основные узлы и детали гидранта изготавливаются из материалов с механическими и антикоррозийными свойствами, обеспечивающими работоспособность изделий при работе на воде в заданных условиях эксплуатации.

* Циклом следует считать: полное открытие гидранта; работу в течении не менее 1 мин. При рабочем давлении; полное закрытие гидранта; слив воды через клапан.

5.5.3 Кольцо клапана гидранта изготовлено из морозостойкой резины повышенной твердости 70 ± 5 Sh по Государственному Стандарту [ГОСТ] 7338.

5.5.4 Не используется никакое дополнительное покрытие кроме покраски порошковой краской.

5.5.5 Лакокрасочные покрытия наружных поверхностей гидрантов - по Государственному Стандарту [ГОСТ] 9.032 класса не ниже VI для условий эксплуатации при умеренном и прохладном климате 4 по Государственному Стандарту [ГОСТ] 9.104. Подготовка металлических поверхностей перед окрашиванием - по Государственному Стандарту [ГОСТ] 9.402. Толщина покрытия составляет 250 μ m.

5.5.6 Сварку фланцев гидранта производится по Государственному Стандарту [ГОСТ] 16037, остальные сварные соединения стальных конструкций - по Государственному Стандарту [ГОСТ] 5264 и Технической Документацией производителя. Непровары, подрезы, наплывы, поджоги, смещение свариваемых деталей, а также другие дефекты, влияющие на качество и надежность гидрантов, не допускаются.

5.6 Требования к поставляемым материалам и изделиям

5.6.1 Поставляемые материалы и изделия, применяемые для изготовления деталей гидрантов, должны быть приняты входным контролем с проверкой их качества и сопроводительной документации.

5.6.2 Применяемые материалы должны иметь сертификаты или ярлыки, подтверждающие их соответствие стандартам, техническим требованиям или другой нормативной документации.

Физико-химические свойства исходных материалов, твердость, шероховатость их поверхностей должны соответствовать стандартам, техническим условиям на их

изготовление, а также назначению и условиям работы изготавливаемых из них деталей гидрантов.

5.6.3 Отливки гидранта - по Государственному Стандарту [ГОСТ] 26358. Отклонения размеров и массы отливок из серого чугуна - по 3-му классу точности по Государственному Стандарту [ГОСТ] Р 53464.

5.6.4 На обработанных трущихся поверхностях литых деталей (патрубок, корпус, ниппель, корпус клапана) наличие раковин, шлаковых включений, трещин и других дефектов литья не допускается .

5.6.5 Учитывая механические и антикоррозионные свойства материал резьбовой части ниппеля М058 не должен уступать свойствам латуни ЛК1 по Государственному Стандарту [ГОСТ] 1020 или бронзы „Br 05С5S5” по Государственному Стандарту [ГОСТ] 613.

5.6.6 Материал шпинделя гидранта не должен уступать стали марки 30Х13 по Государственному Стандарту [ГОСТ] 5632.

5.6.7.Седло клапана (посадочное место клапана) изготовлено из материала с основными свойствами не ниже, чем у латуни марки ЛК1 по Государственному Стандарту [ГОСТ] 1020 или бронзы „Br 05С5S5” по Государственному Стандарту [ГОСТ] 613.

5.6.8 Допускается замена материалов и выбора комплектующих изделий на другие, механические и антикоррозионные свойства которых и технические характеристики не уступают указанным, а также удовлетворяют условиям эксплуатации гидрантов.

Технология продукции гидранта одного типоразмера обеспечивает полную взаимозаменяемость его сборочных единиц и деталей.

5.8 На деталях гидранта не появляются следы коррозии, забоины, вмятины, трещины и другие механические повреждения. Острые углы и кромки на деталях притуплены.

5.9 Метрические резьбы выполняются по Государственному Стандарту [ГОСТ] 24705 с полями допусков по Государственному Стандарту [ГОСТ] 16093: для внутренних резьб -7Н; для наружных резьб - 8g; трапецеидальные – по Государственному Стандарту [ГОСТ] 24738.

Выкрашивания, местные срывы и неровности на поверхности резьб не наблюдаются, если они по глубине выходят за пределы среднего диаметра резьбы и их общая протяженность по длине превышает половину длины витка.

5.10 Крепление отдельных деталей, сборочных единиц должно исключать их самопроизвольное ослабление и отвинчивание при эксплуатации гидранта.

5.11 Комплектность

В комплект поставки гидранта входят комплектующие изделия, предусмотренные в Технической Документации на изделие, паспорт, техническое описание, инструкция по эксплуатации или единый документ, заменяющий их, оформленный в соответствии с Государственным Стандартом [ГОСТ] 2.601.

5.12 Маркировка

5.12.1 На каждый гидрант наносится маркировка. Маркировка надписей на гидранте соответствует требованиям Технической Документации изготовителя.

5.12.2 Маркировка содержит следующие данные:

- наименование или товарный знак предприятия-изготовителя (Бохамет-Арматура);
- условное обозначение гидранта по системе предприятия-изготовителя (НР-М);
- заводской номер (дата изготовления);
- высота гидранта, мм;
- внутренний диаметр корпуса DN (DN 100);
- год выпуска;
- название страны -изготовителя (Made in Poland).

5.12.3 Метод нанесения маркировки обеспечивает ее сохранность в течении срока службы гидранта.

5.13 Упаковка

5.13.1 Перед упаковкой гидранты подлежат очистке, внутренние полости осушаются.

5.13.2 Открытая резьба и неокрашенные поверхности металлических деталей гидрантов покрываются смазкой марки Press-Solidol по Государственному Стандарту [ГОСТ] 4366, вариант защиты ВЗ-1, ВЗ-2. Срок действия консервации гидранта 24 месяца. В эксплуатационной документации указываются: дата консервации и установленный срок защиты без переконсервации, а также способ обезжиривания.

5.13.3 После консервации верхнее отверстие закрывается заглушкой, а нижнее остается открытым с целью облегчения монтажа.

5.13.4 Гидрант обматывается эластичной пленкой, заклеивается клейкой лентой, а затем размещается на поддоне с помощью деревянных прокладок. Возможно использование другой упаковки, обеспечивающей сохранность изделия при транспортировке и хранении. Упаковка проводится таким образом, чтобы исключить перемещение гидранта в упаковке при погрузке, транспортировании и выгрузке.

5.13.5 Упаковка имеет маркировку в соответствии с требованиями Государственного Стандарта [ГОСТ] 14192.

5.13.6 Техническая и эксплуатационная документация вложена во влагонепроницаемый пакет и прилагается вместе с гидрантом с указанием: «Документация».

Челе, 08.05.2017