

**CERTIFICATE OF CONFORMITY****23 – НУРВСПСРБ – РЛ – 033 - 46**

Issued pursuant to Art. 14, par.1 and/or par.2 of Ordinance № RD-02-20-1 from 05.02.2015 on the terms and the conditions for the use of construction products in the construction works of the Republic of Bulgaria of the Ministry of Regional Development and Public Works for the construction product

**Fittings from polypropylene (PP)**  
*trademark "Pragma"***STRUCTURED-WALL FITTINGS WITH SMOOTH INTERNAL AND PROFILED  
EXTERNAL SURFACE**  
**System type "B"**

Designed for non-pressure underground drainage and sewerage used both outside and within building structure. Produced from PP, with range, dimensions, ring stiffness and evaluated characteristics in accordance with Annex № 1 to this Certificate

Released on the market by:

**"PIPELIFE BULGARIA" EOOD**  
**3 Industrialna Street, Botevgrad, Bulgaria**

Produced by:

**PIPELIFE POLSKA S.A.**  
**4 Torfowa Str., Kartoszyno, 84-110 Krokowa, Poland**

This Certificate certifies that the product has been evaluated and conforms to the national requirements, defined in

**BDS EN 13476-3:2018 +A1:2020**  
**BDS EN 13476-3:2018 +A1:2020 /NA:2021**

*and point 12 from Annex № 2 to item 2 of Order № ПД-02-14-1329 from 03.12.2015 of the Minister of the Regional Development and Public Works*

The Certificate was issued for the first time on **03.06.2020**, **reissued on 03.06.2023** and remains valid until **02.06.2026**, provided that the producer ensures consistency of product characteristics and the conditions of production or production control have not been changed significantly.

**Place of issuance: Sofia**  
**Date: 03.06.2023**CEO:   
**(Dipl. Ing. Alexander Marinchev)**

*This certificate includes 1 Annex of 4 pages, which is an integral part of the same.*

**Annex №1**

**to Certificate of conformity № 23 – HYPBCПCПБ – PL – 033 – 46**

**issued on 03.06.2023 and valid until 02.06.2026**

**1. Range, ring stiffness and dimensions**

<b>1.1 Pragma sliding repair socket</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>	<b>1.2 Pragma connecting double socket</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>	<b>1.3 PP-B Pragma plug</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>
<b>DN/OD, mm</b>	<b>DN/OD, mm</b>	<b>DN/ Nominal diameter, mm</b>
DN/OD160	DN/OD160	DN/OD 160
DN/OD200	DN/OD200	DN/OD 200
DN/OD250	DN/OD250	DN/OD 250
DN/OD315	DN/OD315	DN/OD 315
DN/OD400	DN/OD400	DN/OD 400
DN/ID500	DN/ID500	DN/ID 500
DN/ID600	DN/ID600	DN/ID 600
DN/ID800	DN/ID800	
	DN/ID1000	

<b>1.4 PP-B Pragma Bend</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>	
<b>DN/ Nominal diameter, mm</b>	<b>Bending in degrees (°)</b>
DN/OD160	15°
DN/OD160	30°
DN/OD160	45°
DN/OD200	15°
DN/OD200	30°
DN/OD200	45°
DN/OD200	90°
DN/OD250	15°
DN/OD250	30°
DN/OD250	45°
DN/OD250	90°
DN/OD315	15°
DN/OD315	30°
DN/OD315	45°
DN/OD315	90°
DN/OD400	15°
DN/OD400	30°
DN/OD400	45°
DN/OD400	90°



DN/ID500	15°
DN/ID500	30°
DN/ID500	45°
DN/ID500	90°
DN/ID600	15°
DN/ID600	30°
DN/ID600	45°
DN/ID600	90°
DN/ID800	15°
DN/ID800	30°
DN/ID800	45°
DN/ID800	90°

1.5 PP-B Pragma Branch		
<i>DN ≤ 500mm: SN4, SN8, SN16</i>		
<i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>		
DN/ Nominal diameter, mm	DN/ Nominal diameter, mm of branch, mm	Bending in degrees (°)
DN/OD160	DN/OD110	DN160/110x45°
DN/OD160	DN/OD160	160/160x45°
DN/OD200	DN/OD160	200/160x45°
DN/OD200	DN/OD200	200/200x45°
DN/OD250	DN/OD160	250/160x45°
DN/OD250	DN/OD200	250/200x45°
DN/OD315	DN/OD160	315/160x45°
DN/OD315	DN/OD200	315/200x45°
DN/OD315	DN/OD250	315/250x45°
DN/OD400	DN/OD160	400/160x45°
DN/OD400	DN/OD200	400/200x45°
DN/OD400	DN/OD250	400/250x45°
DN/OD400	DN/OD315	400/315x45°
DN/ID500	DN/OD160	ID500/160x45°
DN/ID500	DN/OD200	ID500/200x45°
DN/ID500	DN/OD250	ID500/250x45°
DN/ID500	DN/OD315	ID500/315x45°
DN/ID500	DN/OD315	ID500/315x90°
DN/ID500	DN/OD400	ID500/400x45°
DN/ID600	DN/OD160	ID600/160x45°
DN/ID600	DN/OD200	ID600/200x45°
DN/ID600	DN/OD250	ID600/250x45°
DN/ID600	DN/OD315	ID600/315x45°
DN/ID600	DN/OD400	ID600/400x45°
DN/ID600	DN/ID500	ID600/500x45°

<b>1.6 PP-B Pragma Reducer</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>		<b>1.7 PP-B Pragma sealing ring</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>
<b>DN/ Nominal diameter, mm</b>	<b>DN/ Nominal diameter reducer, mm</b>	<b>DN/ Nominal diameter, mm</b>
DN/OD200	DN/OD160	DN/OD 160
DN/OD250	DN/OD200	DN/OD 200
DN/OD315	DN/OD200	DN/OD 250
DN/OD315	DN/OD250	DN/OD 315
DN/OD400	DN/OD250	DN/OD 400
DN/OD400	DN/OD315	DN/ID 500
DN/ID500	DN/ID400	DN/ID 600
DN/ID600	DN/ID400	DN/ID 800
DN/ID600	DN/ID500	DN/ID 1000

<b>1.8 PP-B Pragma Adaptor to PVC (for connecting of Pragma end without a socket with a PVC KG end with a socket)</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>	<b>1.9 PP-B Pragma assembly ring with a seal (for connecting PVC KG end without a socket with a Pragma end with socket)</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>	<b>1.10 A rubber muff for in-situ connection</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>
<b>DN/ Nominal diameter, mm</b>	<b>DN/ Nominal diameter, mm</b>	<b>DN/ For entrance, mm</b>
DN/OD160	DN/OD 160	DN/OD 110
DN/OD200	DN/OD 200	DN/OD 160
DN/OD250	DN/OD 250	DN/OD 200
DN/OD315	DN/OD 315	DN/OD 250
DN/OD400	DN/OD 400	DN/OD 315

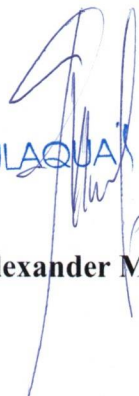
<b>1.11 PP-B Pragma Saddle with a screw</b> <i>DN ≤ 500mm: SN4, SN8, SN16</i> <i>DN &gt; 500mm: SN2, SN4, SN8, SN16</i>	
<b>DN/ Nominal diameter, mm</b>	<b>DN/ D1 Nominal diameter, mm</b>
DN/OD 250	DN/OD 160
DN/OD 315	DN/OD 160
DN/OD 400	DN/OD 160
DN/ID 500	DN/OD 160
DN/ID 600	DN/OD 160
DN/ID 700	DN/OD 160
DN/ID 800	DN/OD 160
DN/ID 1000	DN/OD 160
DN/OD 315	DN/OD 200
DN/OD 400	DN/OD 200
DN/ID 500	DN/OD 200
DN/ID 600	DN/OD 200
DN/ID 700	DN/OD 200
DN/ID 800	DN/OD 200
DN/ID 1000	DN/OD 200



**2. Evaluated characteristics in accordance with the national requirements**

Characteristic	Declaration requirement
Appearance	According to BDS EN 13476-1:2018 item 6.1
Colour	According to BDS EN 13476-1:2018 item 6.2
Geometrical characteristics, mm: - wall thickness - dimensions of spigot - dimensions of socket	According to BDS EN 13476-3:2018 +A1:2020
Effect of heating, %	According to BDS EN 13476-3:2018 +A1:2020
Water tightness	Without leakage According to BDS EN 13476-3:2018 +A1:2020

**Place of issuance: Sofia**  
**Date: 03.06.2023**

BULAQUA STANDART  
  
**CEO:**  
**(Dipl. Ing. Alexander Marinchev)**