



Strojírenský zkušební ústav, s.p.
(Engineering Test Institute, Public Enterprise), Authorized Body 202
Hudcova 424/56b, Brno, Czech Republic
Authorization Decision 4/2017 of 16 January 2017

PRODUCT CERTIFICATE

No. 202/C5/2018/B-30-00631-18

In compliance with the provisions of Section 5 (2) of Government Regulation 163/2002 Coll., laying down technical requirements for selected construction products, as amended by Government Regulation 312/2005 Coll. and Government Regulation 215/2016 Coll., the Authorized Body hereby confirms that for the following construction products

1. Compression fittings with O-ring for PE pipes
2. Internal reinforcement

Type designation: **COBRARING**
Versions: see Pages 2 to 6

Manufacturer: **TIEMME RACCORDERIE S.p.A.**
Via Cavallera, 6/A, 25045 Castegnato (BS)
Italy

it has reviewed the background materials submitted by the Manufacturer, carried out the initial product type test on sample, the initial audit at the manufacturing plant and has assessed the factory production control system and ascertained that the said products meet the requirements related to essential requirements of the abovementioned Government Regulation laid down in technical regulations and in Construction Technical Certificate STO-30-00580-18 of 2018-05-09 issued by Authorized Body 202 and valid until 2021-05-31, and that the factory production control system is consistent with the relevant technical documentation and ensures that the products placed on the market meet the requirements laid down by the aforesaid technical regulations and Construction Technical Certificate and are consistent with the technical documentation pursuant to Section 4 (3) of the abovementioned Government Regulation.

An integral part of this Certificate is Final Report 30-13825 of 2018-05-31, which contains the conclusions drawn from the ascertainment, verifications, test results and essential description of the certified product, necessary for its identification.

This Certificate was first issued on 2018-05-31 and will remain valid as long as the requirements that are laid down by the technical regulations and Construction Technical Certificate, to which reference is made, or the production conditions at the manufacturing plant or the factory production control system remain substantially unchanged, unless this Certificate is amended or cancelled by the Authorized Body.

At least once every 12 months, the Authorized Body performs surveillance of proper operation of the factory production control system at the Manufacturer's premises pursuant to Section 5 (4) of the abovementioned Government Regulation, takes samples of the products at the manufacturing plant, tests these samples and assesses whether the characteristics of the products comply with the technical regulations and Construction Technical Certificate. The Authorized Body shall issue a report on evaluation of the surveillance and pass it to the Manufacturer.

Brno, 2018-05-31




Ing. Aleš Onderek
Deputy Director

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Basic technical data and specifications of versions:

Basic technical data:

Maximum operating pressure:	Water:	PN 10 (1.0 MPa)
	Gas:	MOP 5 (0.5 MPa)
Ambient temperature:	Water:	Up to 110 °C
		Up to 80 °C for POM compression rings
	Gas:	From -20 °C to 60 °C

Specifications of versions:

1. Compression fittings with O-ring for PE pipes

Art. 3460W ÷ 3465W; 3467W ÷ 3469W

Operating liquid: Water, also water for human consumption according to Ministry of Health Decree 409/2005 Coll., heating water, non-aggressive liquids; compressed air, non-aggressive gases

Connections:

Outer diameter of PE pipes(D):	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
Thread dimensions (G):	½	¾	¾*, 1	1*, 1 ¼	1 ½	2
Corresponding nominal bore DN	15	20	20*, 25	25*, 32	40	50

*Note: * ... only Art. 3460W*

Materials:

- Body, nut, clamping and thrust ring: Brass CW617N (CuZn40Pb2)
- Sealing ring: Rubber NBR

Art.	Design	Throughway connection	Branch connection
3460W	Straight, reduction adapter PE x outer thread (ISO 228-1)	20 x ½ to 63 x 2	---
3461W	Straight, coupling PE x PE	20 to 63	---
3462W	Straight, reduction adapter PE x inner thread (ISO 228-1)	20 x ½ to 63 x 2	---
3463W	Elbow, coupling PE x PE	20 to 63	---
3464W	Elbow, reduction adapter PE x outer thread (ISO 228-1)	20 x ½ to 63 x 2	---
3465W	Elbow, reduction adapter PE x inner thread (ISO 228-1)	20 x ½ to 63 x 2	---
3467W	T-shape, coupling PE	20 to 63	20 to 63
3468W	T-shape, throughway coupling PE, branch reduction adapter, outer thread (ISO 228-1)	20 to 63	½ to 2
3469W	T-shape, throughway coupling PE, branch reduction adapter, inner thread (ISO 228-1)	20 to 63	½ to 2





Art. 3460CR + 3471CR

Operating liquid: Water, also water for human consumption according to Ministry of Health Decree 409/2005 Coll., heating water, non-aggressive liquids;
gaseous fuels of 1st, 2nd, 3rd family acc. to ČSN EN 437+A1:2009, oils;
compressed air, non-aggressive gases

Connections:

- Outer diameter of PE pipes(D):	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
- Thread dimensions (Rp):	1/2	3/4	3/4*, 1	1*, 1 1/4	1 1/2	2
- Corresponding nominal bore DN:	15	20	20*, 25	25*, 32	40	50

Note: * ... only Art. 3460CR

Materials:

- Body, clamping nut: Brass CW617N (CuZn40Pb2)
- Clamping and thrust ring: Brass CW617N (CuZn40Pb2)
- Sealing ring: Rubber NBR for water or gas

Art.	Design	Throughway connection	Branch connection
3460CR	Straight, reduction adapter PE x outer thread (ISO 7-1)	20 x 1/2 to 63 x 2	---
3461CR	Straight, coupling PE x PE	20 to 63	---
3462CR	Straight, reduction adapter PE x inner thread (ISO 7-1)	20 x 1/2 to 63 x 2	---
3463CR	Elbow, coupling PE x PE	20 to 63	---
3464CR	Elbow, reduction adapter PE x outer thread (ISO 7-1)	20 x 1/2 to 63 x 2	---
3465CR	Elbow, reduction adapter PE x inner thread (ISO 7-1)	20 x 1/2 to 63 x 2	---
3466CR	Elbow, wall-mounted, reduction adapter PE x inner thread (ISO 7-1)	20 x 1/2 to 32 x 1	---
3467CR	T-shape, coupling PE	20 to 63	20 to 63
3468CR	T-shape, throughway coupling PE, branch reduction adapter, outer thread (ISO 7-1)	20 to 63	1/2 to 2
3469CR	T-shape, throughway coupling PE, branch reduction adapter, inner thread (ISO 7-1)	20 to 63	1/2 to 2
3470CR	Elbow 45° reduction adapter PE x outer thread (ISO 7-1)	25 x 3/4 to 63 x 2	---
3471CR	Straight, extended coupling PE x PE	32 to 63	---



Art. 1460 ÷ 1465; 1467 ÷ 1469

Operating liquid: Water, also water for human consumption according to Ministry of Health Decree 409/2005 Coll., heating water, non-aggressive liquids; compressed air, non-aggressive gases;

Connections:

- Outer diameter of PE pipes(D):	75 mm	90 mm	110 mm
- Thread dimensions (G):	2*, 2½	2 ½*, 3	4
Corresponding nominal bore DN:	50*, 65	65*, 80	100

Note: * ... only Art. 1460

Materials:

- Body, clamping flange: Brass CW617N (CuZn40Pb2)
- Clamping and thrust ring: Brass CW617N (CuZn40Pb2)
- Sealing ring: Rubber NBR for water

Art.	Design	Throughway connection	Branch connection
1460	Straight, reduction adapter PE x outer thread (ISO 228-1)	75 x 2 to 110 x 4	---
1461	Straight, coupling PE x PE	75, 90, 110	---
1462	Straight, reduction adapter PE x inner thread (ISO 228-1)	75 x 2½ to 110 x 4	---
1463	Elbow, coupling PE x PE	75; 90	---
1464	Elbow, reduction adapter PE x outer thread (ISO 228-1)	75 x 2½; 90 x 3	---
1465	Elbow, reduction adapter PE x inner thread (ISO 228-1)	75 x 2½; 90 x 3	---
1467	T-shape, coupling PE	75, 90	75, 90
1468	T-shape, throughway coupling PE, branch reduction adapter, inner thread (ISO 228-1)	75, 90	2, 2½
1469	T-shape, throughway coupling PE, branch reduction adapter, outer thread (ISO 228-1)	75, 90	2½, 3



**Art. 3460 ÷ 3469****Operating liquid:**

Water, also water for human consumption according to Ministry of Health Decree 409/2005 Coll., heating water, non-aggressive liquids; gaseous fuels of 1st, 2nd, 3rd family acc. to ČSN EN 437+A1:2009 (city gas, natural gas, propane-butane), oils; compressed air, non-aggressive gases

Connections:

- Outer diameter of PE pipes(D):	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
- Thread dimensions (G):	½	¾	¾*, 1	1*, 1 ¼	1 ½	2
- Corresponding nominal bore DN:	15	20	20*, 25	25*, 32	40	50

Note: * ... only Art. 3460

Materials:

- Body, clamping nut: Brass CW617N (CuZn40Pb2)
- Clamping and thrust ring: Polyoxymethylene (POM)
- Sealing ring: Rubber NBR for water or gas

Art.	Design	Throughway connection	Branch connection
3460	Straight, reduction adapter PE x outer thread (ISO 228-1)	20 x ½ to 63 x 2	---
3461	Straight, coupling PE x PE	20 to 63	---
3462	Straight, reduction adapter PE x inner thread (ISO 228-1)	20 x ½ to 63 x 2	---
3463	Elbow, coupling PE x PE	20 to 63	---
3464	Elbow, reduction adapter PE x outer thread (ISO 228-1)	20 x ½ to 63 x 2	---
3465	Elbow, reduction adapter PE x inner thread (ISO 228-1)	20 x ½ to 63 x 2	---
3466	Elbow, wall-mounted, reduction adapter PE x inner thread (ISO 228-1)	20 x ½ to 32 x 1	---
3467	T-shape, coupling PE	20 to 63	20 to 63
3468	T-shape, throughway coupling PE, branch reduction adapter, outer thread (ISO 228-1)	20 to 63	½ to 2
3469	T-shape, throughway coupling PE, branch reduction adapter, inner thread (ISO 228-1)	20 to 63	½ to 2



Art. 3460DR ÷ 3467DR; 3469DR; 3471DR; 3491; 3493

Operating liquid: Water, except water for human consumption, heating water, non-aggressive liquids;
compressed air, non-aggressive gases

Connections:

- Outer diameter of PE pipes (D):	20 mm	25 mm	32 mm	40 mm	50 mm	63 mm
- Thread dimensions (Rp):	½	¾	1	1 ¼	1 ½	2
Corresponding nominal bore DN:	15	20	25	32	40	50

Materials:

- Body, nut, clamping and thrust ring: Brass CW602N (CuZn36Pb2As)
- Sealing ring: Rubber NBR

Art.	Design	Throughway connection	Branch connection
3460DR	Straight, reduction adapter PE x outer thread (ISO 7-1)	20 x ½ to 63 x 2	---
3461DR	Straight, coupling PE x PE	20 to 63	---
3462DR	Straight, reduction adapter PE x inner thread (ISO 7-1)	20 x ½ to 63 x 2	---
3463DR	Elbow, coupling PE x PE	20 to 63	---
3464DR	Elbow, reduction adapter PE x outer thread (ISO 7-1)	20 x ½ to 63 x 2	---
3465DR	Elbow, reduction adapter PE x inner thread (ISO 7-1)	20 x ½ to 63 x 2	---
3466DR	Elbow, wall-mounted, reduction adapter PE x inner thread (ISO 7-1)	20 x ½ to 32 x 1	---
3467DR	T-shape, coupling PE	20 to 63	20 to 63
3469DR	T-shape, throughway coupling PE, branch reduction adapter, inner thread (ISO 7-1)	20 to 63	½ to 2
3471DR	Straight, extended coupling PE x PE	32 to 63	---
3491	Straight, Reduction adapter PE x reduction adapter, copper pipe	40 x 2.4 – ø28	---
3493	Elbow, reduction adapter PE x reduction adapter, copper pipe	40 x 2.4 – ø28	---

2. Internal reinforcement

Art 1475, 1476

Operating liquid: Gaseous fuels of 1st, 2nd, 3rd family acc. to ČSN EN 437+A1:2009;
compressed air, non-aggressive gases

Dimensions of PE pipes:

Art. 1475 – Brass internal reinforcement for PE pipes:

- Outside diameter (D - mm):	20	25	32	40	50	63	75	90	110
- Thickness (s - mm):	2.8	3.0	3.0	3.7	4.6	5.8	6.8	8.2	10

Art. 1476 – Brass internal reinforcement with sealing rings for multiple-layer pipes:

- Outside diameter (D - mm):	40	50	63
- Thickness (s - mm):	3.5	4.0	4.5

Material:

- Internal reinforcement: Brass CW617N (CuZn40Pb2)
- Sealing rings: Rubber NBR for water or gas, POM

