



3460W / 3460 / 3460CR / 3460DR / 1460

"COBRARING" COMPRESSION FITTINGS WITH O-RING FOR PE / PE-HD / PEX PIPE



DESCRIPTION

Tiemme compression fittings with O-ring seals for PE, PE-HD and PEX pipes adapt to any type of heating/cooling and sanitation system, with application in residential, commercial, industrial and agricultural sectors, with compressed air and, in general, with any kind of non-corrosive fluid.

The 3460CR series fittings are also suitable for use with natural gas and LPG. However, for this type of application, the use of reinforcing bushing Art. 1475 is required. For further details, see the "INSTRUCTIONS FOR CORRECT ASSEMBLY" section of this data sheet.

They are characterised by their sealing mechanism which is created by tightening the nut on the fitting body.

When the nut is tightened, the internal cut ferrule is compressed between the nut and the main body of the fitting;

The latter, via the seal-press, compresses the O-ring seal onto the body of the fitting, to guarantee sealing against the hydraulic pressure of the system.

ADVANTAGES / STRENGTHS

- Wide variety of installation applications: ideal paired with PE (PE-40), PE-HD (PE-80 and PE-100), PEX pipes.
 Also suitable for multilayer pipe of 40 50 63 75 and 90 mm diameter if the reinforcement bushing Art. 1476 (mandatory) with dielectric function is used.
- Suitable for the transport of natural gas and LPG (3460CR series)
- Wide range available, for every installation need:
 - Connection diameters from 20 to 110 mm.
 - Compact series / Standard series.
 - Series made in CW602N anti-dezincification brass: this alloy has the property of inhibiting the dissolution of the zinc contained in it, to offer greater structural reliability of the fitting over time, while preventing the distribution of external metals into the water being conveyed. RINA certified series, also suitable for applications in shipbuilding.

PRODUCTION RANGE

Compression fittings with O-ring seals for PE, PE-HD, PEX pipes are available in a wide range of sizes (from \emptyset 20 to \emptyset 110 mm), different configurations (straight, curved, T-shaped, etc.), with different types of connections (female threaded connections, male threaded connections, intermediate connections etc...), and in different versions (compact version, standard version, version with ferrule in acetal resin and a version made of CW602N anti-dezincification brass), to meet all kinds of plant engineering requirements.

See the MASTER catalogue for the full range.



ΕN

CW617N Brass CW617N Brass

CONSTRUCTION SPECIFICATIONS

3460	W Series	(compact version)
	(1) Fitting	body:
	(2) Nut:	
	(0) -	

	(3) Ferrule:	CW617N Brass
	(4) Seal-press:	CW617N Brass
	(5) O-ring seal:	NBR
	Threads:	F ISO 228
		M ISO 228
<u>3460</u>	Series (compact version / ferrule and seal-pre	ess in acetal re

3 resin)

(1) Fitting body:	CW617N Brass
(2) Nut:	CW617N Brass
(3) Ferrule:	POM
(4) Seal-press:	POM
(5) O-ring seal:	NBR
Threads:	F ISO 228
	M ISO 228

3460CR Series (standard version / suitable for the transport of natural gas and LPG)

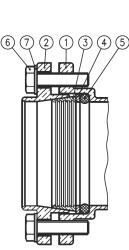
(1) Fitting body: CW617N Brass (2) Nut: CW617N Brass (3) Ferrule: CW617N Brass . (4) Seal-press: CW617N Brass . (5) O-ring seal: NBR Threads: F ISO 7/1 (EN 10226) Cylindrical RP M ISO 7/1 (EN 10226) Conical R

3460DR Series (version made of CW602N anti-dezincification brass)

(1) Fitting body:	CW602N Anti-dezincification brass
(2) Nut:	CW617N Brass
(3) Ferrule:	CW617N Brass
(4) Seal-press:	CW617N Brass
(5) O-ring seal:	NBR
Threads:	F ISO 7/1 (EN 10226) Cylindrical RP
	M ISO 7/1 (EN 10226) Conical R

1460 Series (large diameter version: Ø75 - 90 - 110 mm)

(1) Fitting body:	CW617N Brass
(2) Flange:	CW617N Brass
(3) Ferrule:	CW617N Brass
(4) Seal-press:	CW617N Brass
(5) O-ring seal:	NBR
(6) Bolts:	Steel
(7) Washers:	Steel
Threads:	F ISO 228
	M ISO 228



TECHNICAL SPECIFICATIONS

Compatibility:

- Maximum working temperature:
- Minimum working temperature: . .

+ 110 °C

Maximum working pressure (with water):

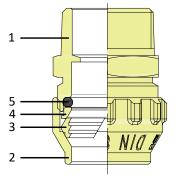
(compressed air):

- 20 ° C (provided that the fluid remains in the liquid phase) 30 bar * (3460W / 3460CR / 3460DR Series) 25 bar * (1460/3460 Series) 10 bar (3460W / 3460 / 3460CR / 3460DR Series) 7 bar (1460 Series) MOP5 (Serie 3460CR) Drinking water, water and glycol solutions (maximum percentage of glycol 30%)

compressed air, natural gas and LPG (3460CR Series) non corrosive fluids **

- * Maximum pressure permitted in the "system" (pipe fitting) in accordance with the characteristics of the pipe used.
- ** To check compatibility with fluids or other substances not listed, please contact the Tiemme Technical Dept.

(with gas):



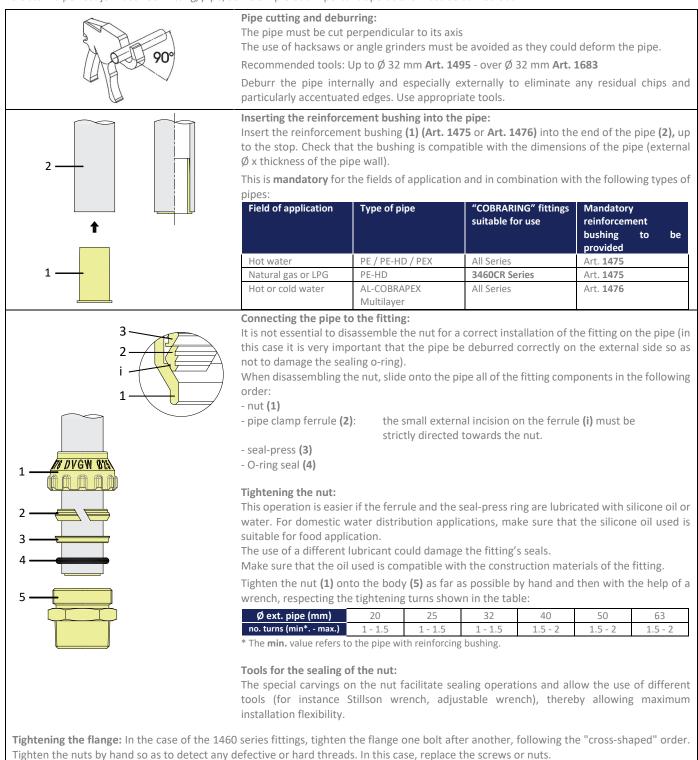
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INSTRUCTIONS FOR CORRECT ASSEMBLY

To obtain a perfect join between fitting/pipe, some simple but important operations must be carried out:



Turn the torque wrench clockwise. The optimal tightening torque value is **50 Nm.**

IMPORTANT: Carrying out the following operations incorrectly, may compromise the tightness of the joint.

NEVER:

- Use incompatible or harmful substances.

- Use these fittings for chased installation.

- Connect plastic pipe directly to boilers, water heaters or any other source of heat: we recommended using a joint with a metal pipe for a length of at least one metre to protect the plastic pipe from any malfunction of heat generators.

- Connection to the multilayer pipe without bushing art. 1476



SOME POSSIBLE CAUSES OF LEAKS:

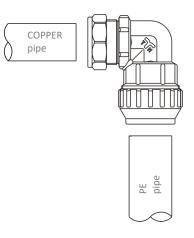
- Incorrect tightening of the nut onto the fitting (comply with the indications provided by Tiemme on the number of tightening turns).
- Excessive force used when tightening the nut.
- Presence of external scratches on the pipe.
- Connection with other incompatible products.
- Incompatible fluids.
- Excessive use of sealants (e.g. hemp, PTFE tape etc...) on male/female threads could generate tension in the fittings.
- Freezing of the system or excessive internal pressure.
- Storage of materials in unsuitable environments.
- Unpredictable external causes, such as accidental impacts or inappropriate movements.

TIEMME RACCORDERIE S.p.A. will accept no responsibility for breakages and/or accidents resulting from failure to comply with these indications and from improper use of the system. The information shown does not exempt the user from scrupulously following current regulations and good technical standards.

SPECIAL VERSIONS: COMBINED FITTINGS FOR PE PIPE / COPPER PIPE

In order to provide maximum versatility in installations, Tiemme offers a range of fittings that allow for the connection of Ø40 mm PE PIPE with Ø28 mm copper pipe.

These fittings are supplied complete with reinforcement bushing Art. 1475



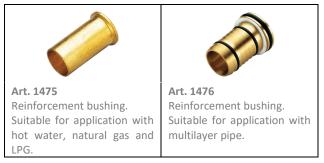
Nut tightening table			
Ø ext. pipe (mm)	40	28	
	(PE pipe)	(COPPER pipe)	
no. turns (min* max.)	1.5 - 2	1	

* The min. value refers to the pipe with reinforcing bushing.



See the product catalogue for order codes / further details. For technical specifications regarding connection on the copper pipe side, see the technical data sheet of the **1000 and 1100 Series** fittings.

ACCESSORIES



See the product catalogue for order codes / further details.



ITEM SPECIFICATIONS

3460W Series

Compact compression fitting with O-ring for PE, PE-HD and PEX multilayer pipe, made up of: body in CW617N brass, nut in CW617N brass, ferrule in CW617N brass, seal-press in CW617N brass, O-ring in NBR, ISO 228 threads. Maximum working temperature: + 110 °C. Minimum working temperature: - 20 °C (provided that the fluid remains in the liquid phase). Maximum working pressure: 30 bar (with water), 10 bar (with compressed air).

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Compatibility: Drinking water, water and glycol solutions (maximum percentage of glycol 30%), compressed air.

Production range: from \emptyset 20 to \emptyset 63 mm, different configurations (straight, curved, T-shaped etc.) and with different types of connections (Female threaded connections, Male threaded connections, intermediate compression connections).

3460 Series

Compact compression fitting with O-ring for PE, PE-HD and PEX multilayer pipe, made up of: CW617N brass body, CW617N brass nut, POM ferrule, POM seal-press, NBR O-ring seal, ISO 228 threads.

Maximum working temperature: + 110 °C. Minimum working temperature: - 20 °C (provided that the fluid remains in the liquid phase). Maximum working pressure: 25 bar (with water), 10 bar (with compressed air).

Compatibility: Drinking water, water and glycol solutions (maximum percentage of glycol 30%), compressed air.

Production range: from \emptyset 20 to \emptyset 63 mm, different configurations (straight, curved, T-shaped etc.) and with different types of connections (Female threaded connections, Male threaded connections, intermediate compression connections).

3460CR Series

Compact compression fitting with O-ring for PE, PE-HD and PEX multilayer pipe, made up of: body in CW617N brass, nut in CW617N brass, ferrule in CW617N brass, seal-press in CW617N brass, O-ring in NBR, ISO 7/1 (EN 10226) threads.

Maximum working temperature: + 110 °C. Minimum working temperature: - 20 °C (provided that the fluid remains in the liquid phase). Maximum working pressure: 30 bar (with water), 10 bar (with compressed air). MOP 5 (with natural gas or LPG).

Compatibility: Drinking water, water and glycol solutions (maximum percentage of glycol 30%), compressed air, natural gas and LPG.

Production range: from \emptyset 20 to \emptyset 63 mm, different configurations (straight, curved, T-shaped etc.) and with different types of connections (Female threaded connections, Male threaded connections, intermediate compression connections).

3460DR Series

Compression fitting with O-ring for PE, PE-HD and PEX multilayer pipe, made up of: body in CW602N anti-dezincification brass, nut in CW617N brass, ferrule in CW617N brass, seal-press in CW617N brass, sealing O-ring in NBR, ISO 7/1 (EN 10226) threads.

Maximum working temperature: + 110 °C. Minimum working temperature: - 20 °C (provided that the fluid remains in the liquid phase). Maximum working pressure: 30 bar (with water), 10 bar (with compressed air).

Compatibility: Drinking water, water and glycol solutions (maximum percentage of glycol 30%), compressed air.

Production range: from \emptyset 20 to \emptyset 63 mm, different configurations (straight, curved, T-shaped etc.) and with different types of connections (Female threaded connections, Male threaded connections, intermediate compression connections).

1460 Series

Compression fitting with O-ring for PE, PE-HD and PEX multilayer pipe, made of: body in CW617N brass, flange in CW617N brass, ferrule in CW617N brass, seal-press in CW617N brass, sealing O-ring in NBR, steel bolts and washers, ISO 228 threads.

Maximum working temperature: + 110 °C. Minimum working temperature: - 20 °C (provided that the fluid remains in the liquid phase). Maximum working pressure: 25 bar (with water), 7 bar (with compressed air).

Compatibility: Drinking water, water and glycol solutions (maximum percentage of glycol 30%), compressed air.

Production range: from \emptyset 75 to \emptyset 110 mm, different configurations (straight, curved, T-shaped etc.) and with different types of connections (Female threaded connections, Male threaded connections, intermediate compression connections).



ΕN

CERTIFICATIONS

3460W - 3460 - 1460 series



3460CR series



3460DR series

