Introduction

The Series 200 compression screw fittings with O-ring for copper pipe, manufactured in accordance with UNI EN 1254-2 and DM 174, have been designed and manufactured in order to increase sealing characteristics and reduce assembly time, thus facilitating the installation work.

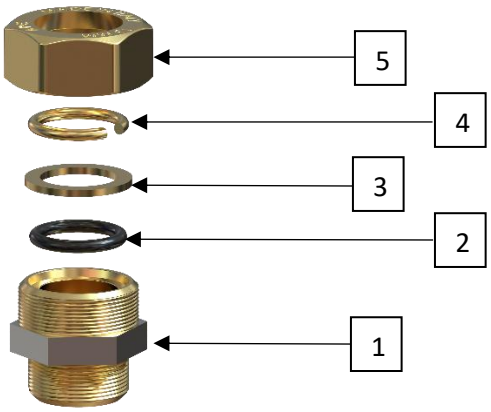
They consist of:

- fitting body;
- locking nut;
- compression washer;
- snap ring;
- sealing O-ring.

The fittings are made of CW617N brass in order to comply with DM174, are used in both plumbing/heating and gas systems, and are available in a wide range of shapes in diameters from Ø12 to Ø28.

The seal between copper pipe and fitting is achieved by compression of the O-ring [2], which, with the interposition of a ring [3], is applied by the nut [5] through tightening on the body. Installation is particularly easy; even in case of disassembly and subsequent re-use, you only need to replace the O-ring in order to restore the correct functionality.

The products have been tested at the Istituto Giordano laboratories (ref. no. 226101).



N.	Description	Materials
1	**Body**	CW617N
2	**O-ring**	NBR 70 SCH
3	**Snap ring**	OT 63
4	**Washer**	CW617N
5	**Locking nut**	CW617N

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TECHNICAL FEATURES

Field of application:	Plumbing/heating and gas systems
	Gas supply plants for domestic use
Operating fluid:	Drinking water, technical water and glycol water
	1st - 2nd -3rd families acc. to UNI EN 437 (manufactured gas, natural gas and LPG)
Temperature range:	5°C to 80 °C
	-20°C to 80°C
Operating pressure:	max 10 bar
	MOP 0,5
Type of piping:	copper

ASSEMBLY INSTRUCTIONS

To achieve a perfect joint between pipe and fitting, we strongly recommend that you carefully follow the following assembly instructions

CUTTING

Cut the tube to the desired length using special shears: the cut must be perpendicular to the axis of the tube. CAUTION: do not use a hacksaw as it creates burrs that will cut the O-ring.

INSTALLATION

Installation must comply with UNI 7129 standard, which covers gas systems with a heat input not greater than 35 kW.

The greatest attention must be paid to the following sequence of operations:

1. First insert the nut [5] and then the snap ring [3], and finally the washer [4] and the O-ring [2] on the copper pipe in succession.

2. Bring the pipe to the end stop on the fitting itself;

3. Finally, tighten observing the tightening torques indicated in the table.



TIGHTENING

Tighten the nut using the appropriate spanners.

Caution: the nut must be tightened using two spanners, one for pulling and the other as a contrast.

APE Raccorderie recommends the following tightening torques when installing 200 Series fittings.

PIPE DIAMETER mm	NOMINAL TIGHTENING Nm	MAX TIGHTENING TORQUE Nm
12	30	35
14	35	40
16	35	40
18	35	40
22	40	45
28	55	60

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