Introduction

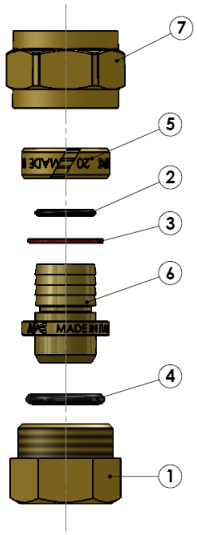
The **700L SERIES** screw fittings for multilayer pipes are in CW617N brass made in compliance with Italian Ministerial Decree No. 174. They have been designed and manufactured to ensure high reliability over time. Since they do not require any special assembly equipment, installation is made much easier for the installer. Featuring an O-ring which ensures tightness together with the serrated profile of the hose barb connector and a PE ring to eliminate any stray currents, they are used for all types of plumbing systems and are available in a diversified range of figures in diameters from Ø16 to Ø32.

The seal between the hose and the fitting is guaranteed by the serrated anti-slip profile of the hose barb connector **[6]** and by the presence of an O-ring **[2]** located on the hose barb connector itself.

The hose is coupled by compression: a radial compression produced by the screwing up of the nut **[7]** which determines the tightening of the cut olive **[5]** around the pipe, and an axial compression which compresses the O-ring **[4]** on the body.

This coupling system, by making the brass work in compression, prevents the occurrence of possible micro cracks and ensures the seal in any operating condition.

The presence of the PE washer **[3]** insulates the aluminium of the pipe and the brass of the fitting avoiding the occurrence of any type of corrosion.



N.	Description	Materials and conformity
1	**Body**	Brass CW617N
2	**O-ring**	Peroxide EPDM 70 SCH
3	**Washer**	PE
4	**O-ring**	NBR 70 SCH
5	**Nut**	Brass CW614N
6	**Tang for brass adapter**	Brass CW617N
7	**Nut**	Brass CW617N

The ease of installation of the 700 L Series is due to the fact that standard spanners can be used and that the thread is standardized (GAS ISO 228); as screw fittings, they can be reused in case of wrong installation.

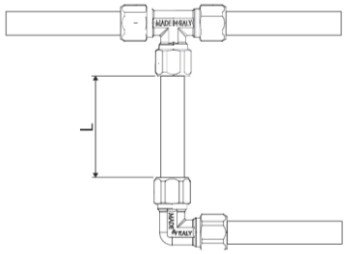
Technical specifications

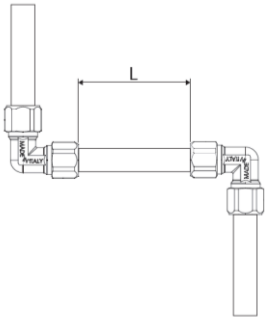
Field of application:	Heating and hot water systems
Fluids carried:	Drinking water, water for technical purposes and water containing glycol
Temperature range:	from 5 °C to 80 °C
Operating pressure:	max. 10 bar
Type of pipe:	Multilayer PE-Xb/AL/PE-Xb (compliant with UNI 21003)

* If operating temperatures below 5 °C are required, use glycol in the percentages indicated by the supplier.

OVERALL FITTING DIMENSIONS

The minimum installation distances between the fittings of the 700 F Series are shown below:





Diameter	L (mm)
Ø16 (2.0)	70
Ø20 (2.0)	70
Ø26 (2.0)	70
Ø26 (3.0)	80

It is recommended to prevent the fittings from moving by creating a number of anchor points, especially in case of long lines, so pipe expansion is not discharged onto the fittings.

IMPORTANT:

When coupling with other fittings, DO NOT USE HEMP, but only the specific sealant Art. URL1010002.

APE Raccorderie recommends the following tightening torques to be used when installing 700F Series:

Max tightening torque 50 N*m

Nominal tightening torque 40 N*m

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