

FITTINGS



700 L SERIES

COMPRESSION FITTINGS FOR MULTILAYER PIPES

Site
BRESCIA

1964

**APE RACCORDERIE
IS FOUNDED**

with the name
"Minuterie Metalliche
di Pe Angelo"

Commercial
presence
in over

50
COUNTRIES

Today, with

52,000 m²

it is one of the few
manufacturing companies

APE[®]
RACCORDERIE

on the national
and international market for

almost 60 years

**MANUFACTURERS OF ENTIRE
HEATING AND SANITARY SYSTEMS**

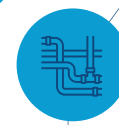
Fittings that
can be tightened
or crimped



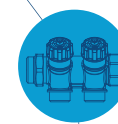
All products
and systems are
certified by major
international bodies



Multilayer
pipe



Distribution
manifolds



Floor, wall and ceiling
radiant systems



FITTINGS

PIPES

GAS

THERM

FITTINGS



700 L SERIES

Compression fittings
for multilayer pipes

700 L SERIES

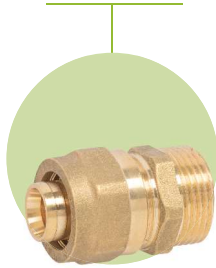
Compression fittings for multilayer pipes

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700 L SERIES

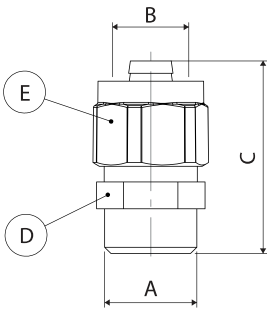
Compression fittings for multilayer pipes

MALE STRAIGHT
ART. 701 L



Code	Size (mm)	Bag (nr)	Box (nr)
3701L01216	1/2" x Ø16 (2.0)	10	140
3701L01218	1/2" x Ø18 (2.0)	10	100
3701L01220	1/2" x Ø20 (2.0)	10	100
3701L03416	3/4" x Ø16 (2.0)	10	100
3701L03418	3/4" x Ø18 (2.0)	10	100
3701L03420	3/4" x Ø20 (2.0)	10	100
3701L03426	3/4" x Ø26 (3.0)	5	60
3701L00126	1" x Ø26 (3.0)	5	50
3701L00132	1" x Ø32 (3.0)	5	40
3701L11432	1 1/4" x Ø32 (3.0)	5	30

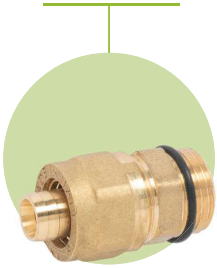
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
3701L01216	G 1/2" ISO 229	Ø16 (2.0)	43	CH 21	CH 24
3701L01218	G 1/2" ISO 228	Ø18 (2.0)	44	CH 25	CH 28
3701L01220	G 1/2" ISO 228	Ø20 (2.0)	44	CH 25	CH 28
3701L03416	G 3/4" ISO 228	Ø16 (2.0)	45	CH 27	CH 24
3701L03418	G 3/4" ISO 228	Ø18 (2.0)	45	CH 27	CH 28
3701L03420	G 3/4" ISO 228	Ø20 (2.0)	45	CH 27	CH 28
3701L03426	G 3/4" ISO 228	Ø26 (3.0)	47,50	CH 33	CH 36
3701L00126	G 1" ISO 228	Ø26 (3.0)	50,50	CH 33	CH 36
3701L00132	G 1" ISO 228	Ø32 (3.0)	54,50	CH 38	CH 42
3701L11432	G 1 1/4" ISO 228	Ø32 (3.0)	56,50	CH 42	CH 42



700 L SERIES

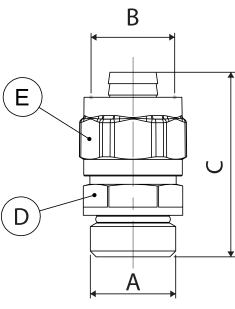
Compression fittings for multilayer pipes

MALE STRAIGHT WITH O-RING
ART. 701 L-CO



Code	Size (mm)	Bag (nr)	Box (nr)
3701L01216CO	1/2" x Ø16 (2.0)	10	120

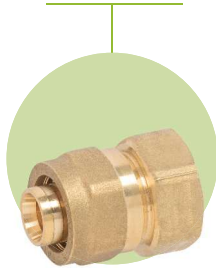
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
3701L01216CO	G 1/2" ISO 228	Ø16 (2.0)	43	CH 21	CH 24



700 L SERIES

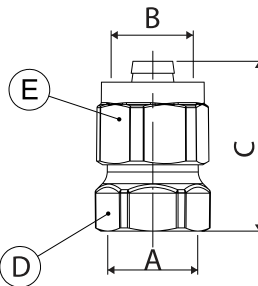
Compression fittings for multilayer pipes

FEMALE STRAIGHT
ART. 702 L



Code	Size (mm)	Bag (nr)	Box (nr)
3702L01216	1/2" x Ø16 (2.0)	10	140
3702L01218	1/2" x Ø18 (2.0)	10	100
3702L01220	1/2" x Ø20 (2.0)	10	100
3702L03416	3/4" x Ø16 (2.0)	10	100
3702L03418	3/4" x Ø18 (2.0)	10	90
3702L03420	3/4" x Ø20 (2.0)	10	90
3702L03426	3/4" x Ø26 (3.0)	5	50
3702L00126	1" x Ø26 (3.0)	5	50
3702L00132	1" x Ø32 (3.0)	5	40

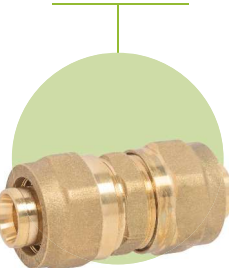
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
3702L01216	G 1/2" ISO 228	Ø16 (2.0)	39	CH 24	CH 24
3702L01218	G 1/2" ISO 228	Ø18 (2.0)	40	CH 25	CH 28
3702L01220	G 1/2" ISO 228	Ø20 (2.0)	40	CH 25	CH 28
3702L03416	G 3/4" ISO 228	Ø16 (2.0)	41	CH 30	CH 24
3702L03418	G 3/4" ISO 228	Ø18 (2.0)	42	CH 30	CH 28
3702L03420	G 3/4" ISO 228	Ø20 (2.0)	42	CH 30	CH 28
3702L03426	G 3/4" ISO 228	Ø26 (3.0)	45	CH 33	CH 36
3702L00126	G 1" ISO 228	Ø26 (3.0)	46	CH 38	CH 36
3702L00132	G 1" ISO 228	Ø32 (3.0)	48,50	CH 38	CH 42



700 L SERIES

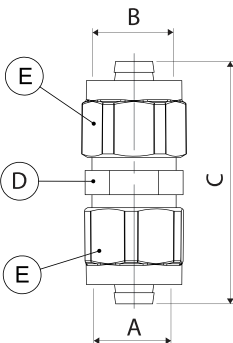
Compression fittings for multilayer pipes

STRAIGHT COUPLING
ART. 703 L



Code	Size (mm)	Bag (nr)	Box (nr)
3703L01616	Ø16 (2.0) x Ø16 (2.0)	10	100
3703L01818	Ø18 (2.0) x Ø18 (2.0)	10	70
3703L02016	Ø20 (2.0) x Ø16 (2.0)	10	80
3703L02020	Ø20 (2.0) x Ø20 (2.0)	10	70
3703L02620	Ø26 (3.0) x Ø20 (2.0)	5	40
3703L02626	Ø26 (3.0) x Ø26 (3.0)	5	40
3703L03226	Ø32 (3.0) x Ø26 (3.0)	5	30
3703L03232	Ø32 (3.0) x Ø32 (3.0)	5	25

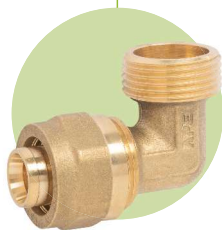
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
3703L01616	Ø16 (2.0)	Ø16 (2.0)	60	CH 21	CH 24
3703L01818	Ø18 (2.0)	Ø18 (2.0)	62	CH 25	CH 28
3703L02016	Ø20 (2.0)	Ø16 (2.0)	61	CH 25	CH 24
3703L02020	Ø20 (2.0)	Ø20 (2.0)	62	CH 25	CH 28
3703L02620	Ø26 (3.0)	Ø20 (2.0)	64,50	CH 33	CH 28
3703L02626	Ø26 (3.0)	Ø26 (3.0)	67	CH 33	CH 36
3703L03226	Ø32 (3.0)	Ø26 (3.0)	72	CH 38	CH 36
3703L03232	Ø32 (3.0)	Ø32 (3.0)	76	CH 38	CH 42



700 L SERIES

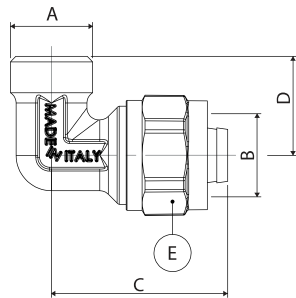
Compression fittings for multilayer pipes

MALE ELBOW
ART. 753 L



Code	Size (mm)	Bag (nr)	Box (nr)
3753L01216	1/2" x Ø16 (2.0)	10	100
3753L01218	1/2" x Ø18 (2.0)	10	80
3753L01220	1/2" x Ø20 (2.0)	10	80
3753L03418	3/4" x Ø18 (2.0)	10	60
3753L03420	3/4" x Ø20 (2.0)	10	70
3753L03426	3/4" x Ø26 (3.0)	5	40
3753L00126	1" x Ø26 (3.0)	5	30
3753L00132	1" x Ø32 (3.0)	5	25
3753L11432	1"1/4 x Ø32 (3.0)	5	20

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
3753L01216	G1/2"ISO 228	Ø16 (2.0)	44	25	CH 24
3753L01218	G1/2"ISO 228	Ø18 (2.0)	44,50	25	CH 28
3753L01220	G1/2"ISO 228	Ø20 (2.0)	44,50	30	CH 28
3753L03418	G3/4"ISO 228	Ø18 (2.0)	45	28	CH 28
3753L03420	G3/4"ISO 228	Ø20 (2.0)	45	28	CH 28
3753L03426	G3/4"ISO 228	Ø26 (3.0)	55	33	CH 36
3753L00126	G1"ISO 228	Ø26 (3.0)	55	34	CH 36
3753L00132	G1"ISO 228	Ø32 (3.0)	63,30	41,5	CH 42
3753L11432	G1"1/4 ISO 228	Ø32 (3.0)	63,20	45,5	CH 42



700 L SERIES

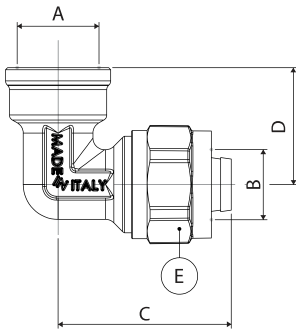
Compression fittings for multilayer pipes

FEMALE ELBOW
ART. 752 L



Code	Size (mm)	Bag (nr)	Box (nr)
3752L01216	1/2" x Ø16 (2.0)	10	80
3752L01218	1/2" x Ø18 (2.0)	10	80
3752L01220	1/2" x Ø20 (2.0)	10	80
3752L03418	3/4" x Ø18 (2.0)	10	60
3752L03420	3/4" x Ø20 (2.0)	10	60
3752L03426	3/4" x Ø26 (3.0)	5	30
3752L00126	1" x Ø26 (3.0)	5	30
3752L00132	1" x Ø32 (3.0)	5	20

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
3752L01216	G1/2"ISO 228	Ø16 (2.0)	44,50	31,50	CH 24
3752L01218	G1/2"ISO 228	Ø18 (2.0)	44,50	30	CH 28
3752L01220	G1/2"ISO 228	Ø20 (2.0)	44,50	30	CH 28
3752L03418	G3/4"ISO 228	Ø18 (2.0)	45,50	30	CH 28
3752L03420	G3/4"ISO 228	Ø20 (2.0)	45,50	30	CH 28
3752L03426	G3/4"ISO 228	Ø26 (3.0)	55	35,50	CH 36
3752L00126	G1"ISO 228	Ø26 (3.0)	55	38	CH 36
3752L00132	G1"ISO 228	Ø32 (3.0)	63,30	45,50	CH 42



700 L SERIES

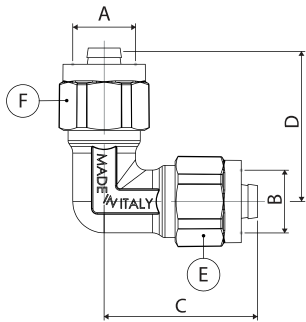
Compression fittings for multilayer pipes

90° EQUAL ELBOW
ART. 751 L



Code	Size (mm)	Bag (nr)	Box (nr)
3751L01616	Ø16 (2.0) x Ø16 (2.0)	10	70
3751L01818	Ø18 (2.0) x Ø18 (2.0)	10	50
3751L02020	Ø20 (2.0) x Ø20 (2.0)	10	50
3751L02626	Ø26 (3.0) x Ø26 (3.0)	5	25
3751L03232	Ø32 (3.0) x Ø32 (3.0)	5	20

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
3751L01616	Ø16 (2.0)	Ø16 (2.0)	44	44	CH 24	CH 24
3751L01818	Ø18 (2.0)	Ø18 (2.0)	45	45,05	CH 28	CH 28
3751L02020	Ø20 (2.0)	Ø20 (2.0)	45	45,05	CH 28	CH 28
3751L02626	Ø26 (3.0)	Ø26 (3.0)	55	55	CH 36	CH 36
3751L03232	Ø32 (3.0)	Ø32 (3.0)	63,30	63,30	CH 42	CH 42



700 L SERIES

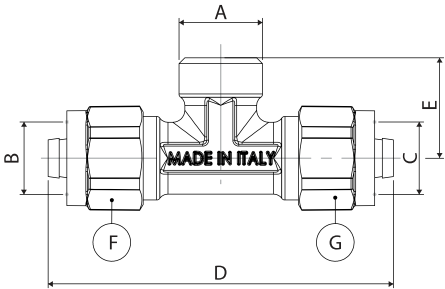
Compression fittings for multilayer pipes

MALE TEE
ART. 733 L



Code	Size (mm)	Bag (nr)	Box (nr)
3733L01216	Ø16 (2.0) x 1/2" x Ø16 (2.0)	10	50
3733L01218	Ø18 (2.0) x 1/2" x Ø18 (2.0)	10	40
3733L01220	Ø20 (2.0) x 1/2" x Ø20 (2.0)	10	50
3733L03420	Ø20 (2.0) x 3/4" x Ø20 (2.0)	10	40
3733L03426	Ø26 (3.0) x 3/4" x Ø26 (3.0)	5	20
3733L00132	Ø32 (3.0) x 1" x Ø32 (3.0)	5	10

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
3733L01216	G1/2"ISO 228	Ø16	Ø16	86	25	CH 24	CH 24
3733L01218	G1/2"ISO 228	Ø18	Ø18	89	25,50	CH 28	CH 28
3733L01220	G1/2"ISO 228	Ø20	Ø20	89	25,50	CH 28	CH 28
3733L03420	G3/4"ISO 228	Ø20	Ø20	94	30	CH 28	CH 28
3733L03426	G3/4"ISO 228	Ø26	Ø26	111,50	33,50	CH 36	CH 36
3733L00132	G1"ISO 228	Ø32	Ø32	126,50	43	CH 42	CH 42



700 L SERIES

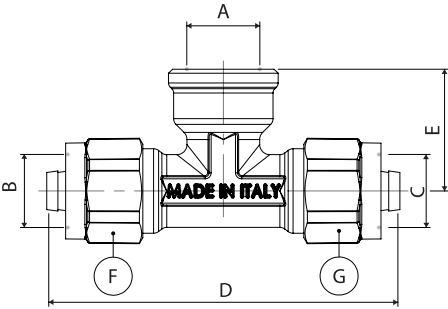
Compression fittings for multilayer pipes

FEMALE TEE
ART. 732 L



Code	Size (mm)	Bag (nr)	Box (nr)
3732L01216	Ø16 (2.0) x 1/2" x Ø16 (2.0)	10	50
3732L01218	Ø18 (2.0) x 1/2" x Ø18 (2.0)	10	40
3732L01220	Ø20 (2.0) x 1/2" x Ø20 (2.0)	10	40
3732L03418	Ø18 (2.0) x 3/4" x Ø18 (2.0)	10	30
3732L03420	Ø20 (2.0) x 3/4" x Ø20 (2.0)	10	30
3732L03426	Ø26 (3.0) x 3/4" x Ø26 (3.0)	5	20
3732L00132	Ø32 (3.0) x 1" x Ø32 (3.0)	5	10

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
3732L01216	G1/2"ISO 228	Ø16	Ø16	87	30	CH24	CH24
3732L01218	G1/2"ISO 228	Ø18	Ø18	89	30	CH28	CH28
3732L01220	G1/2"ISO 228	Ø20	Ø20	89	30	CH28	CH28
3732L03418	G3/4"ISO228	Ø18	Ø18	94	31	CH28	CH28
3732L03420	G3/4"ISO228	Ø20	Ø20	89	30	CH28	CH28
3732L03426	G3/4"ISO228	Ø26	Ø26	111,50	36,50	CH36	CH36
3732L00132	G1"ISO228	Ø32	Ø32	126,50	45,50	CH42	CH42



700 L SERIES

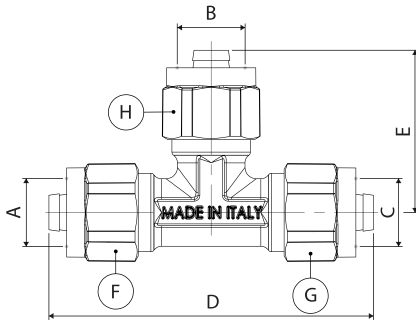
Compression fittings for multilayer pipes

EQUAL TEE
ART. 731 L



Code	Size (mm)	Bag (nr)	Box (nr)
37TL161616	Ø16 (2.0) x Ø16 (2.0) x Ø16 (2.0)	10	50
37TL181818	Ø18 (2.0) x Ø18 (2.0) x Ø18 (2.0)	10	30
37TL202020	Ø20 (2.0) x Ø20 (2.0) x Ø20 (2.0)	10	30
37TL262626	Ø26 (3.0) x Ø26 (3.0) x Ø26 (3.0)	5	15
37TL323232	Ø32 (3.0) x Ø32 (3.0) x Ø32 (3.0)	5	10

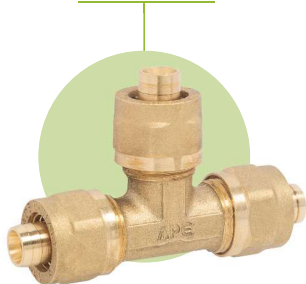
Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
37TL161616	Ø16	Ø16	Ø16	86	43	CH24	CH24	CH24
37TL181818	Ø18	Ø18	Ø18	89	44	CH28	CH28	CH28
37TL202020	Ø20	Ø20	Ø20	89	44	CH28	CH28	CH28
37TL262626	Ø26	Ø26	Ø26	111,50	55,50	CH36	CH36	CH36
37TL323232	Ø32	Ø32	Ø32	126,50	63	CH42	CH42	CH42



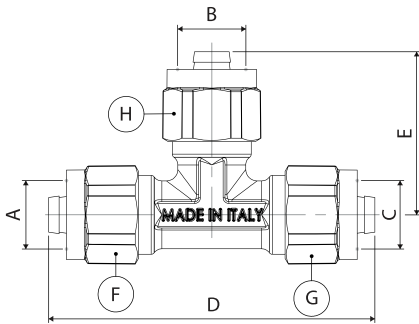
700 L SERIES

Compression fittings for multilayer pipes

REDUCING TEE
ART. 731 L



Code	Size (mm)	Bag (nr)	Box (nr)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
37TL162016	Ø16 (2.0) x Ø20 (2.0) x Ø16 (2.0)	10	40	Ø16 (2.0)	Ø20 (2.0)	Ø16 (2.0)	86,50	44	CH 24	CH 24	CH 28
37TL201616	Ø20 (2.0) x Ø16 (2.0) x Ø16 (2.0)	10	40	Ø20 (2.0)	Ø16 (2.0)	Ø16 (2.0)	88	43	CH 28	CH 24	CH 24
37TL201620	Ø20 (2.0) x Ø16 (2.0) x Ø20 (2.0)	10	40	Ø20 (2.0)	Ø16 (2.0)	Ø20 (2.0)	89	43	CH 28	CH 28	CH 24
37TL202016	Ø20 (2.0) x Ø20 (2.0) x Ø16 (2.0)	10	40	Ø20 (2.0)	Ø20 (2.0)	Ø16 (2.0)	88	44,50	CH 28	CH 24	CH 28
37TL262020	Ø26 (3.0) x Ø20 (2.0) x Ø20 (2.0)	5	20	Ø26 (3.0)	Ø20 (2.0)	Ø20 (2.0)	108	53	CH 28	CH 36	CH 28
37TL262026	Ø26 (3.0) x Ø20 (2.0) x Ø26 (3.0)	5	20	Ø26 (3.0)	Ø20 (2.0)	Ø26 (3.0)	111,50	53	CH 36	CH 36	CH 28
37TL262620	Ø26 (3.0) x Ø26 (3.0) x Ø20 (2.0)	5	15	Ø26 (3.0)	Ø26 (3.0)	Ø20 (2.0)	108	55	CH 36	CH 28	CH 36
37TL322632	Ø32 (3.0) x Ø26 (3.0) x Ø32 (3.0)	5	10	Ø32 (3.0)	Ø26 (3.0)	Ø32 (3.0)	126,50	56	CH 42	CH 42	CH 36



700 L SERIES

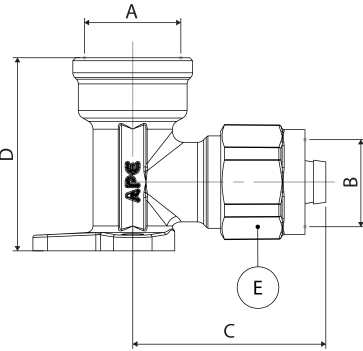
Compression fittings for multilayer pipes

FEMALE ELBOW WITH FLANGE
ART. 754 L

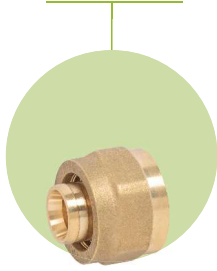


Code	Size (mm)	Bag (nr)	Box (nr)
3754L01216	1/2" x Ø16 (2.0)	10	60
3754L01218	1/2" x Ø18 (2.0)	10	50
3754L01220	1/2" x Ø20 (2.0)	10	50

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
3754L01216	G1/2"ISO 228	Ø16 (2.0)	43,50	43,50	CH 24
3754L01218	G1/2"ISO 228	Ø18 (2.0)	45,50	43,50	CH 28
3754L01220	G1/2"ISO 228	Ø20 (2.0)	45,50	43,50	CH 28

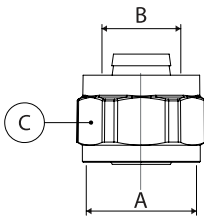


ADAPTERS FOR FITTINGS
ART. 780 L



Code	Size (mm)	Bag (nr)	Box (nr)
3780L01620	Ø16 (2.0)	10	150

Code	A (mm)	B (mm)	C (mm)
3780L01620	M21x1.5 ISO 262	Ø16 (2.0)	CH 24



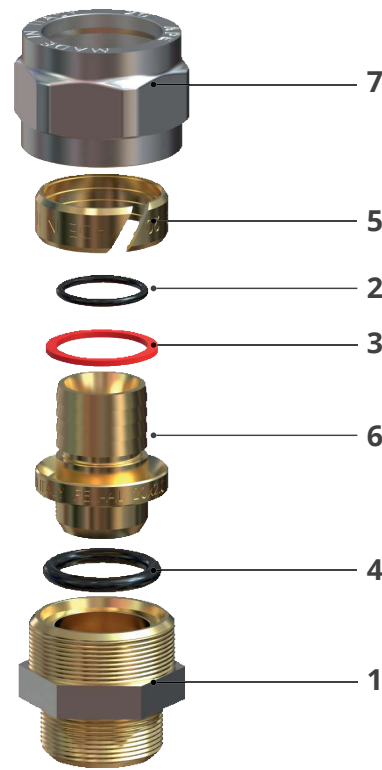
SPECIFICHE TECNICHE

700 L SERIES



INTRODUCTION

The 700L SERIES compression 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 Compressioning 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.	Descrizione	Materiali
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 Compression fittings, they can be reused in case of wrong installation.

SPECIFICHE TECNICHE

700 L SERIES



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.*

INSTALLATION INSTRUCTIONS

700 L SERIES



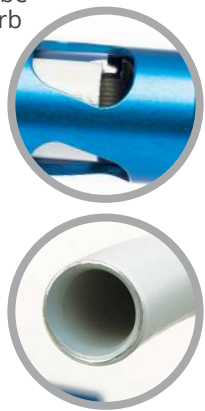
In order to achieve a perfect joint between the pipe and the fitting, we recommend that you carefully follow the following assembly instructions.

CUT

Cut the pipe to the desired length using Ape's special pipe cutter. The cut must be perpendicular to the axis of the pipe.

CALIBRATION AND COUNTERSINKING

This is the most important operation to be performed before inserting the hose barb into the pipe. Insert the pipe calibrator into the pipe and turn it several times until obtaining a perfectly rounded circle. In the meantime the calibrator countersinks the edge of the pipe reshaping it into a truncated cone as a result of the action of three cutters arranged at 120° at the base of the calibrator. Once the pipe is calibrated and flared remove the shavings that formed as a result of these operations. Before using the calibrators check that they are perfectly intact and functional.



1



2



3



LUBRICATION

Before inserting the pipe into the hose fitting, it is strictly necessary to lubricate the inner pipe edge by applying a special silicone-based solution. The lubricant has the dual function of facilitating the pipe insertion and preserving the O-rings over time, protecting them against cuts and/or removal which would compromise their sealing capacity.

4



INSTALLATION OF FITTING

1. First insert the nut and then the split olive on the pipe;
2. Insert the nozzle into the pipe, make the pipe get into contact with the nozzle so that the pipe rests on the PE gasket;
3. Finally introduce the hose barb into the special housing of the fitting and manually Compression the nut as much as possible.

5



TIGHTENING the fitting

Finally tighten the nut using the proper wrenches, STOP TIGHTENING WHEN THE TUBE TENDS TO TURN WITH THE NUT. Warning: The nut must be tightened using two wrenches: one to tighten and the other hold the body of the fitting.

[illegible]



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