

### / Product type

Press fittings for domestic hot water supply systems.  
Press fittings for heating and cooling systems.

### / Description

SEMPITER press fittings for multi-layer pipes are designed for use both in domestic hot water supply systems and in heating and cooling systems.

SEMPITER press fittings differ from traditional products of this kind because they are implemented applying precautions that safeguard the health of users. This is done through a careful selection of the materials and processing operations aimed at keeping potentially dangerous substances from being released in potable water.

SEMPITER press fittings are easy to install. The materials used to make SEMPTER fittings comply with the strictest standards of safety applied to materials that come into contact with water used for human consumption.

Used in combination with multi-layer pipes, SEMPTER fittings constitute a **SAFE, FAST and COST-EFFECTIVE** press system.



### / Product range

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● Thread ISO 228-1.

### / Press system

SEMPITER press fittings are designed for installation making use of the radial pressing method.

This type of joint has become increasingly popular as a result of the simplicity and speed with which it is installed. The fitting is also perfectly water-tight, even when subjected to high pressures and temperatures.

The clamp, made specifically to fit any diameter size of the multi-layer pipes utilized, presses against the stainless steel bearing that secures the pipe to the fitting.

The mechanical seal is ensured by the particular body gauge of the fitting and by the relative steel bearing, which have been designed for pressing with three different clamp gauges; **these gauges are: TH - H - U.**

The wet seal is ensured by two O-rings.

After pressing, SEMPITER fittings form a connection between the pipe and fitting so as to provide maximum stability and wear. This makes them especially suitable for trace heater installation.



### / Technical characteristics

Pressing clamp gauges:	TH - H - U
Fluids to be used:	Water and glycol solutions
Maximum percentage of glycol:	50%
Maximum temperature:	95°C
Maximum operating pressure:	10 bar
Max test pressure for locating any unpressed fittings:	3 bar

### / Design details

**1) BODY** – All the brass body parts of the SEMPITER fittings undergo surface treatments

**2) BEARING** – The bearings are made of stainless steel and undergo a hardening process that makes them particularly resistant to the effects of alkali contained in cement and to those of anhydride plaster.

Engraved on each bearing is the size of the multi-layer pipe with which it is to be used.

The bearings are hooked on to the body through a ring nut coupling.

**3) RING NUTS** – The nylon ring nuts perform four important functions, they:

- keep bearings connected to the fitting;
- make it possible to check that the pipe has been correctly inserted in the fitting before proceeding with the pressing stage. The pipe must be inserted in the fitting as far as possible and must be visible through the ring nut slots;
- function as guides for correct positioning of jaws during pressing;
- create a dielectric coating between the aluminum portion of the multi-layer pipe and the brass body, thus preventing corrosion.

**4) O-RING** – The O-Rings mounted on all the fittings of the SEMPITER series are made of peroxy EPDM, a material that is certified for use in pipes that come into contact with potable water; they are mounted on the fittings without using any grease. The O-Rings utilized are completely free of defects and are tested by applying the same rules that regulate the automotive sector; final checks to verify the correct mounting of O-rings is performed on 100% of the fittings produced.

The SEMPITER series of fittings provides that the fitting **LEAKS IF NOT PRESSED**. This condition exists in order to prevent possible errors caused by distraction during installation, resulting in additional fixing times and costs. This is made possible thanks to precision machining.

## / What surface treatment do our brasses undergo?

All the brass body parts of the SEMPITER fittings undergo surface treatments.

The treatment creates a uniform surface coating throughout all the fitting surfaces, both the external and internal surfaces, and covers even the most internal areas of the fitting.

The coating gives the external surfaces of the fittings good surface hardness making them resistant to the corrosive effects of the additives contained in the tail-in slurry. This is why they are especially suitable for trace heater installations. The treatment reduces the surface roughness of the internal surfaces of fittings, which guarantees lower load losses and prevents limestone deposits.

The treatment also makes fittings completely non-toxic: brass, generally utilized to manufacture fittings for water supply systems, contains small amounts of lead, zinc and arsenic (even if only in small amounts); these are harmful to human health. The surface treatment keeps these elements from being released in the water when the pipes are used to carry water for human consumption.

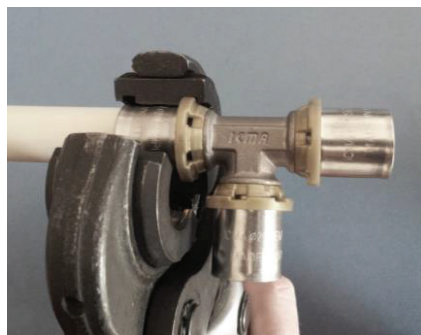
The surface treatment provides a permanent guarantee of quality. Ageing tests performed in the laboratory have shown that the treated brass does not peel and does not deteriorate over time.

***The fittings treated observe the limits set by current international regulations.***

## / Installation

SEMPITER fittings can be pressed making use of electrical or battery-driven pressing machines with jaws or inserts that apply one of the following gauges: **TH – H – U.**

To ensure correct pressing, make sure that the pressing machine is in good condition and that it functions perfectly, according to manufacturer specifications



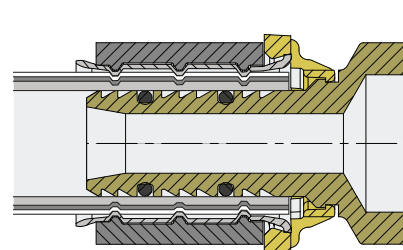
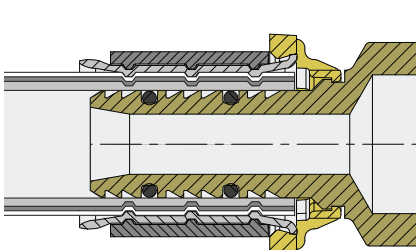
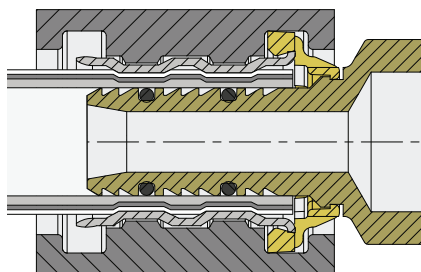
**PROFILE TH**



**PROFILE H**



**PROFILE U**

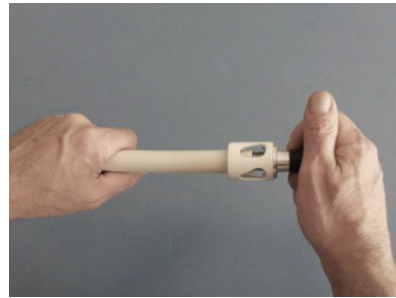


The above figures indicate the gauges of the fittings pressed with the three different jaws. The different positions of the jaws on the steel bearings are clearly noticeable as compared to the plastic ring nuts.

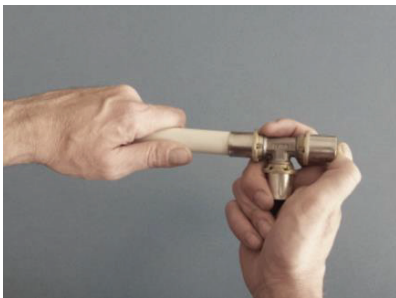
### / Pressing operations



1) Cut



2) Calibrate



3) Insert



4) Press

### / Description of pressing operations

**1) CUT** – Cut the pipe making use of appropriate shears. The cut should be perpendicular to the pipe axis for correct pressing.

**2) CALIBRATE** – Calibrate and trim the pipe using the appropriate tool. This operation is performed to prepare the pipe for insertion inside the fitting. Calibration serves to straighten the pipe in case it has been warped, even slightly, during cutting. The trimming operation makes it easier to insert the fitting without damaging the O-rings.

**3) INSERT** – Insert the pipe inside the fitting as far as possible. The pipe has been correctly inserted if the end portion is visible through the slots on the plastic ring nuts.

**4) PRESS** – SEMPITER fittings can be pressed making use of jaws or inserts that have one of the following gauges: TH – H – U. Place the press jaws at the end of the fitting to be pressed, as shown in the above diagrams. The TH type jaw should be placed so that the plastic ring nut fits into the appropriate slot located on the same jaw section. The H and U type jaws are placed on the steel bearing by bringing one side of the jaw close to the plastic ring nut. Before pressing, always check that the pipe is correctly positioned through the slots on the plastic ring nut.

The fitting is correctly blocked only when the clamps are completely closed. Once the pressing operation has been completed, always check that the pipe is correctly positioned through the slots on the plastic ring nut.

If pressing has not been performed correctly, it is necessary to cut the pipe and repeat the operation applying a new fitting.

### / Leaks if not pressed

The SEMPITER series of fittings provides that the fitting **LEAKS IF NOT PRESSED**. It has been conceived this way so as to prevent errors from occurring through carelessness, during installation, possibly resulting in the need to perform additional costly, time consuming operations. Checks to ensure that fittings have been correctly pressed should be carried out each time an installation, or even a part of an installation, is implemented, to avoid wasting time needlessly after the installation has been completed.

***To verify that the fittings installed have been correctly pressed, simply fill the system with water and apply pressure; even low pressure values are sufficient for this purpose. This test should never exceed 3 bar.***

## / Final system inspection

Once the system has been completed with the installation of pipes and fittings, it is necessary to perform final inspection of the system before definitively walling in the parts which should remain hidden, as provided by the provisions in force. The following reference standards are in force in Italy as of the date of preparation of these specifications:

<b>UNI 5364:1976</b>	<b>Hot-water heating systems. Rules for submitting offer and for performing inspection.</b> In particular, item 3.1.8 requires the performance of a sealing test by bringing the system to a pressure higher than 10 kgf/cm <sup>2</sup> compared to its normal operating pressure, and maintaining this pressure for 6 consecutive hours.
<b>UNI 9182:2014</b>	<b>Cold and hot water supply and distribution systems. Design, installation and testing.</b> Reference is made to the UNI EN 806-4 standard, item 26.2.1 for the cold water sealing test and to item 26.2.2 for the hot water sealing test.
<b>UNI EN 806-4:2010</b>	<b>Specifications relative to systems installed inside buildings for the conveying of water for human consumption – Installation.</b> In particular, item 6.1.3 describes the procedures for testing pipes made of plastic materials (including multi-layer pipes).
<b>UNI EN 1264-4:2009</b>	<b>Water fed radiating systems for the integrated heating and cooling of buildings – Installation.</b> In particular, item 4.3 describes the pressure seal test (performed) at a minimum pressure two times higher than the maximum pressure, with minimum of 6 bar.

For details, specific reference is made to the above standards. Always observe the standards in force in the country in which the system is installed.

## / Warnings

The temperature of water intended for human consumption and in contact with the product must not exceed 65°C for public health reasons. From a health point of view, we see no obstacles to the use of water at higher temperatures for thermal disinfection, **provided that the water used for thermal disinfection is not intended for human consumption.**

Scope of product application: drinking water supply, domestic hot water supply.

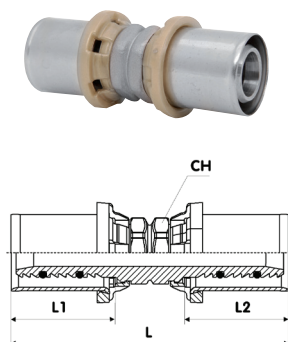
Instructions for cleaning and disinfecting the product (including the designation of the suitable disinfectant) must be clearly communicated to the customer by the manufacturer or distributor!

The water supply line containing the product must be filled with drinking water and hot water for at least one day. Rinse water must be discharged into the sewerage system and may not be used for domestic purposes. Only after this step can the intended use of the section of the water supply containing the product begin.

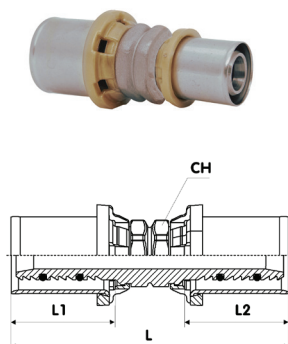
In the first few weeks after application of the product, the release of metallic and organic materials can be expected, which can cause taste and odour problems, excessive bacterial growth and an increased need for chlorine. This phenomenon is temporary and can be reduced by more frequent washing operations.

## / Codes and sizes

### Series 400 .....

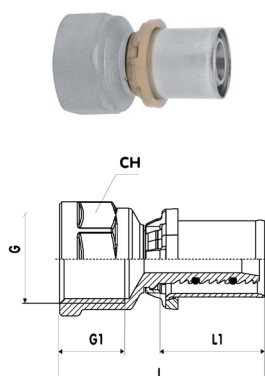


		Straight fitting					
PIPE SIZE		L	L1	L2	CH	CODE	
16x2	16x2	66	25	25	15	81400GH06	
18x2	18x2	67	24	24	20	81400GJ06	
20x2	20x2	67	25	25	20	81400BQ06	
25x2,5	25x2,5	70	25	25	23	81400GO06	
26x3	26x3	70	25	25	23	81400GP06	
32x3	32x3	68	25	25	29	81400GQ06	
40x3,5	40x3,5	88	36	36	-	81400GS06	
50x4	50x4	89	38	38	-	81400GT06	



		Straight reduced fitting					
PIPE SIZE		L	L1	L2	CH	CODE	
18x2	16x2	67	24	25	20	81400GJGH06	
20x2	16x2	67	25	25	20	81400BQGH06	
20x2	18x2	67	25	24	23	81400BQJ06	
25x2,5	16x2	68	25	25	23	81400GOGH06	
25x2,5	20x2	68	25	25	23	81400GOBQ06	
26x3	16x2	68	25	25	23	81400GPGH06	
26x3	18x2	68	26	24	23	81400GPGJ06	
26x3	20x2	68	25	25	23	81400GPBQ06	
32x3	16x2	67	25	25	29	81400GQGH06	
32x3	20x2	67	25	25	29	81400GQBQ06	
32x3	25x2,5	69	25	25	29	81400GQGO06	
32x3	26x3	69	25	25	29	81400GQGP06	
40x3,5	26x3	77	36	25	-	81400GSGP06	
40x3,5	32x3	77	36	25	-	81400GSGQ06	
50x4	40x3,5	90	38	36	-	81400GTGS06	

### Series 401 .....

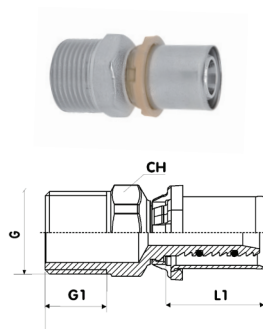


		Straight female thread fitting						
PIPE SIZE		L	L1	G	G1	CH	CODE	
16x2	1/2"	49	25	1/2"	16	24	81401ADGH06	
16x2	3/4"	51	25	3/4"	17	31	81401AEGH06	
18x2	1/2"	47	24	1/2"	16	24	81401ADGJ06	
18x2	3/4"	50	24	3/4"	17	31	81401AEGJ06	
20x2	1/2"	48	25	1/2"	16	24	81401ADBQ06	
20x2	3/4"	51	25	3/4"	17	31	81401AEBQ06	
25x2,5	3/4"	51	25	3/4"	17	31	81401AEGO06	
25x2,5	1"	55	25	1"	18	38	81401AFGO06	
26x3	3/4"	51	25	3/4"	17	31	81401AEGP06	
26x3	1"	55	25	1"	18	38	81401AFGP06	
32x3	1"	52	25	1"	18	38	81401AFGQ06	
32x3	1"1/4	54	25	1"1/4	18	47	81401AGGQ06	
40x3,5	1"1/4	70	36	1"1/4	22	48	81401AGGS06	
50x4	1"1/2	69	38	1"1/2	22	54	81401AHGT06	

Thread ISO 228-1.



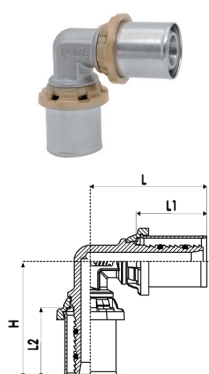
## Series 402 .....



Straight male thread fitting							
PIPE SIZE		L	L1	G	G1	CH	CODE
16x2	1/2"	55	25	1/2"	16	22	81402ADGH06
16x2	3/4"	57	25	3/4"	17	27	81402AEGH06
18x2	1/2"	47	24	1/2"	16	24	81402ADGJ06
18x2	3/4"	50	24	3/4"	17	31	81402AEGJ06
20x2	1/2"	54	25	1/2"	16	22	81402ADBQ06
20x2	3/4"	57	25	3/4"	17	27	81402AEBQ06
25x2,5	3/4"	57	25	3/4"	17	27	81402AEGO06
25x2,5	1"	61	25	1"	18	34	81402AFGO06
26x3	3/4"	57	25	3/4"	17	27	81402AEGP06
26x3	1"	61	25	1"	18	34	81402AFGP06
32x3	1"	59	25	1"	18	34	81402AFGQ06
32x3	1"1/4	63	25	1"1/4	18	43	81402AGGQ06
40x3,5	1"1/4	78	36	1"1/4	22	43	81402AGGS06
50x4	1"1/2	78	38	1"1/2	22	54	81402AHGT06

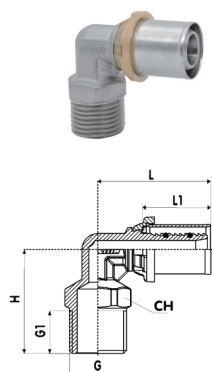
Thread ISO 228-1.

## Series 403 .....



Curved fitting						
PIPE SIZE		L	L1	L2	H	CODE
16x2	16x2	41	25	25	41	81403GH06
18x2	18x2	42	24	24	42	81403GJ06
20x2	20x2	43	25	25	43	81403BQ06
25x2,5	25x2,5	47	25	25	47	81403GO06
26x3	26x3	47	25	25	47	81403GP06
32x3	32x3	49	25	25	49	81403GQ06
40x3,5	40x3,5	72	36	36	72	81403GS06
50x4	50x4	72	38	38	72	81403GT06

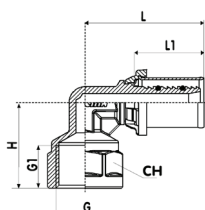
## Series 404 .....



Curved male fitting								
PIPE SIZE		L	L1	H	G	G1	CH	CODE
16x2	1/2"	41	25	38	1/2"	16	22	81404ADGH06
16x2	3/4"	44	25	39	3/4"	17	27	81404AEGH06
18x2	1/2"	40	24	38	1/2"	16	22	81404ADGJ06
18x2	3/4"	44	24	39	3/4"	18	27	81404AEGJ06
20x2	1/2"	41	25	38	1/2"	16	22	81404ADBQ06
20x2	3/4"	44	25	39	3/4"	17	27	81404AEBQ06
25x2,5	3/4"	45	25	42	3/4"	17	27	81404AEGO06
25x2,5	1"	49	25	43	1"	18	34	81404AFGO06
26x3	3/4"	45	25	42	3/4"	17	27	81404AEGP06
26x3	1"	49	25	43	1"	18	34	81404AFGP06
32x3	1"	48	25	46	1"	18	34	81404AFGQ06
32x3	1"1/4	53	25	46	1"1/4	18	43	81404AGGQ06
40x3,5	1"1/4	72	36	63	1"1/4	22	54	81404AGGS06
50x4	1"1/2	72	38	63	1"1/2	22	54	81404AHGT06

Thread ISO 228-1.

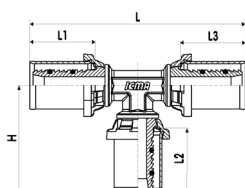
## Series 405 .....



		Curved female fitting						
PIPE SIZE		L	L1	H	G	G1	CH	CODE
16x2	1/2"	45	25	25	1/2"	16	24	81405ADGH06
16x2	3/4"	46	25	31	3/4"	17	31	81405AEGH06
18x2	1/2"	46	24	31	1/2"	16	24	81405ADGJ06
18x2	3/4"	46	24	31	3/4"	17	31	81405AEGJ06
20x2	1/2"	45	25	31	1/2"	16	24	81405ADBQ06
20x2	3/4"	46	25	31	3/4"	17	31	81405AEBQ06
25x2,5	3/4"	47	25	35	3/4"	17	31	81405AEGO06
25x2,5	1"	51	25	33	1"	18	38	81405AFGO06
26x3	3/4"	47	25	35	3/4"	17	31	81405AEP06
26x3	1"	51	25	33	1"	18	38	81405AFGP06
32x3	1"	50	25	40	1"	18	38	81405AFGQ06
32x3	1"1/4	55	25	36	1"1/4	18	47	81405AGGQ06
40x3,5	1"1/4	72	36	52	1"1/4	22	54	81405AGGS06
50x4	1"1/2	72	38	54	1"1/2	22	54	81405AHGT06

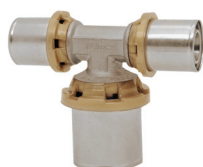
Thread ISO 228-1.

## Series 406 .....



			"T" fitting					
PIPE SIZE			L	L1	L2	L3	H	CODE
16x2	16x2	16x2	82	25	25	25	41	81406GH06
18x2	18x2	18x2	84	24	24	24	42	81406GJ06
20x2	20x2	20x2	85	25	25	25	43	81406BQ06
25x2,5	25x2,5	25x2,5	94	25	25	25	47	81406GO06
26x3	26x3	26x3	94	25	25	25	47	81406GP06
32x3	32x3	32x3	98	25	25	25	49	81406GQ06
40x3,5	40x3,5	40x3,5	144	36	36	36	72	81406GS06
50x4	50x4	50x4	144	38	38	38	72	81406GT06

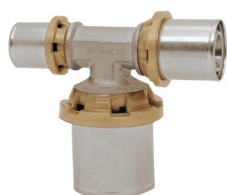
			Reduced or expanded centre "T" fitting					
PIPE SIZE			L	L1	L2	L3	H	CODE
16x2	18x2	16x2	82	25	24	25	42	81406GHGJGH06
16x2	20x2	16x2	85	25	25	25	43	81406GHBQGH06
18x2	16x2	18x2	84	24	25	24	43	81406GJGHGJ06
20x2	16x2	20x2	85	25	25	25	43	81406BQGHBQ06
20x2	18x2	20x2	85	25	24	25	42	81406BQGBQ06
20x2	25x2,5	20x2	91	25	25	25	46	81406BQGOBQ06
20x2	26x3	20x2	91	25	25	25	46	81406BQGPBQ06
25x2,5	16x2	25x2,5	94	25	25	25	46	81406GOGHGO06
25x2,5	20x2	25x2,5	94	25	25	25	46	81406GOBQGO06
25x2,5	32x3	25x2,5	100	25	25	25	49	81406GOGQGO06
26x3	16x2	26x3	94	25	25	25	46	81406GPGHGP06
26x3	20x2	26x3	94	25	25	25	46	81406GPBQGP06
26x3	32x3	26x3	100	25	25	25	49	81406GPGQGP06
32x3	16x2	32x3	98	25	25	25	49	81406GQGHGQ06
32x3	20x2	32x3	98	25	25	25	49	81406GQBQGQ06
32x3	25x2,5	32x3	98	25	25	25	50	81406GQGOGQ06
32x3	26x3	32x3	98	25	25	25	50	81406GQGPGQ06
40x3,5	26x3	40x3,5	140	36	25	36	58	81406GSGPGS06
40x3,5	32x3	40x3,5	140	36	25	36	58	81406GSGQGS06
50x4	32x3	50x4	145	36	25	36	60	81406GTGQGT06
50x4	40x3,5	50x4	144	38	36	38	72	81406GTGSGT06





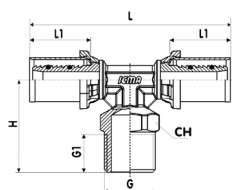


Reduced or expanded on one side "T" fitting								
PIPE SIZE			L	L1	L2	L3	H	CODE
16x2	16x2	20x2	85	25	25	25	43	81406GHGHBQ06
16x2	16x2	25x2,5	93	25	25	25	46	81406GHGHHGO06
16x2	16x2	26x3	93	25	25	25	46	81406GHGHGP06
16x2	25x2,5	25x2,5	93	25	25	25	47	81406GHGOGO06
18x2	18x2	16x2	84	24	24	25	42	81406GJGJGH06
20x2	20x2	16x2	85	25	25	25	43	81406BQBQGH06
20x2	20x2	18x2	85	25	25	24	43	81406BQBQJ06
20x2	20x2	25x2,5	93	25	25	25	46	81406BQBQGO06
20x2	20x2	26x3	93	25	25	25	46	81406BQBQGP06
20x2	20x2	32x3	98	25	25	25	49	81406BQBQGO06
25x2,5	25x2,5	20x2	93	25	25	25	47	81406GOGOBQ06
25x2,5	25x2,5	32x2	99	25	25	25	50	81406GOGOGQ06
26x3	26x3	16x2	93	25	25	25	47	81406GPGPGH06
26x3	26x3	20x2	93	25	25	25	47	81406GPGPBQ06
26x3	26x3	32x3	99	25	25	25	50	81406GPGPGQ06
32x3	32x3	20x2	98	25	25	25	49	81406GQGQBQ06
25x2,5	32x3	32x3	99	25	25	25	49	81406GOGQGQ06
32x3	32x3	26x3	99	25	25	25	49	81406GQGQGP06



T fitting for three different pipes								
PIPE SIZE			L	L1	L2	L3	H	CODE
16x2	20x2	25x2,5	93	25	25	25	46	81406GHBQGO06
16x2	20x2	26x3	93	25	25	25	46	81406GHBQGP06
20x2	16x2	25x2,5	93	25	25	25	46	81406BQBQGHGO06
20x2	25x2,5	32x3	98	25	25	25	50	81406BQBQGOQ06
20x2	16x2	26x3	93	25	25	25	46	81406BQBQGHGP06
20x2	26x3	32x3	98	25	25	25	50	81406BQBQPGQ06
25x2,5	20x2	32x3	99	25	25	25	49	81406GOBQGGQ06
26x3	20x2	32x3	99	25	25	25	49	81406GPBQGGQ06

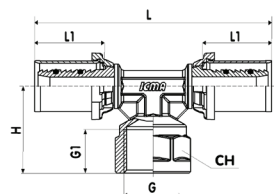
## Series 407 .....



Male "T" fitting									
PIPE SIZE			L	L1	H	G	G1	CH	CODE
16x2	1/2"	16x2	82	25	38	1/2"	16	22	81407ADGH06
16x2	3/4"	16x2	88	25	39	3/4"	17	27	81407AEGH06
18x2	1/2"	18x2	81	24	38	1/2"	16	22	81407ADGJ06
18x2	3/4"	18x2	87	24	39	3/4"	17	27	81407AEGJ06
20x2	1/2"	20x2	82	25	38	1/2"	16	22	81407ADBQ06
20x2	3/4"	20x2	88	25	39	3/4"	17	27	81407AEBQ06
25x2,5	3/4"	25x2,5	91	25	42	3/4"	17	27	81407AEGO06
26x3	3/4"	26x3	91	25	42	3/4"	17	27	81407AEPG06
26x3	1"	26x3	98	25	43	1"	18	34	81407AFGP06
32x3	1"	32x3	96	25	46	1"	18	34	81407AFGQ06
32x3	1"1/4	32x3	107	25	46	1"1/4	18	43	81407AGGQ06
40x3,5	1"1/4	40x3,5	144	36	63	1"1/4	22	54	81407AGGS06
50x4	1"1/2	50x4	144	38	63	1"1/2	22	54	81407AHGT06

Thread ISO 228-1.

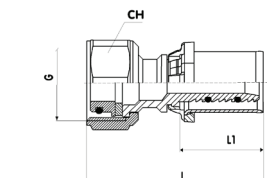
## Series 408 .....



Female "T" fitting									
PIPE SIZE			L	L1	H	G	G1	CH	CODE
16x2	1/2"	16x2	85	25	31	1/2"	16	24	81408ADGH06
16x2	3/4"	16x2	92	25	31	3/4"	17	31	81408AEGH06
18x2	1/2"	18x2	84	24	31	1/2"	16	24	81408ADGJ06
20x2	1/2"	20x2	85	25	31	1/2"	16	24	81408ADBQ06
20x2	3/4"	20x2	92	25	31	3/4"	17	31	81408AEBQ06
25x2,5	3/4"	25x2,5	95	25	35	3/4"	17	31	81408AEGO06
26x3	3/4"	26x3	95	25	35	3/4"	17	31	81408AEGP06
26x3	1"	26x3	103	25	34	1"	18	38	81408AFGP06
32x3	1"	32x3	101	25	43	1"	21	38	81408AFGQ06
32x3	1"1/4	32x3	111	25	36	1"1/4	18	47	81408AGGQ06
40x3,5	1"1/4	40x3,5	144	36	52	1"1/4	22	54	81408AGGS06
50x4	1"1/2	50x4	144	38	54	1"1/2	22	54	81408AHGT06

Thread ISO 228-1.

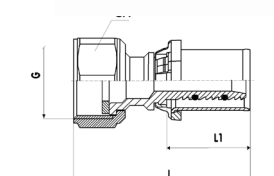
## Series 415 .....



Fitting with revolving nut for by-passes						
PIPE SIZE		L	L1	G	CH	CODE
16x2	1/2"	50	25	1/2"	24	81415ADGH06
16x2	M24x1,5	50	25	M24x1,5	27	81415RAGH06
20x2	M24x1,5	50	25	M24x1,5	27	81415RABQ06
16x2	3/4" EUROCONUS	50	25	3/4"	30	81415AEGH06
20x2	3/4" EUROCONUS	50	25	3/4"	30	81415AEBQ06

Thread ISO 228-1.

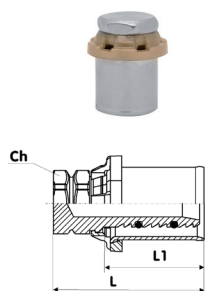
## Series 416 .....



Flat seat fitting with revolving nut						
PIPE SIZE		L	L1	G	CH	CODE
16x2	1/2"	50	25	1/2"	24	81416ADGH06
16x2	3/4"	50	25	3/4"	30	81416AEGH06
20x2	1/2"	51	25	1/2"	24	81416ADBQ06
20x2	3/4"	50	25	3/4"	30	81416AEBQ06
26x3	3/4"	59	25	3/4"	30	81416AEGP06
26x3	1"	60	25	1"	36	81416AFGP06
32x3	1"	61	25	1"	36	81416AFGQ06

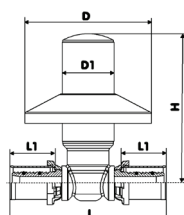
Thread ISO 228-1.

### Series 417 .....



Plug for closing multi-layer pipe				
PIPE SIZE	L	L1	CH	CODE
16x2	38	25	-	81417GH06
20x2	39	25	-	81417BQ06
26x3	40	25	23	81417GP06
32x3	40	25	29	81417GQ06

### Series 409 .....



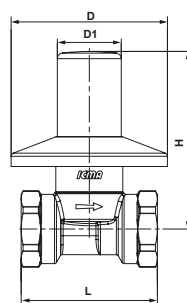
Compact concealed piping valve							
PIPE SIZE		L	L1	H	D	D1	CODE
16x2	16x2	86	25	82	70	29	81409GH06
20x2	20x2	86	25	82	70	29	81409BQ06

#### Extension for built-in tap art. 409



ARTICLE	CODE
431	81431GH06

### Series 515 .....



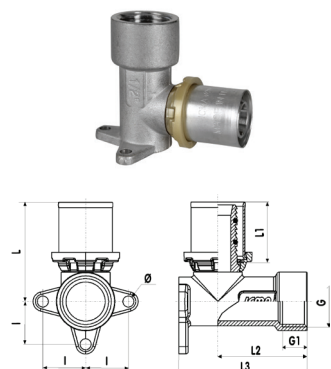
Full bore cock for built-in installation					
PIPE SIZE	L	H	D	D1	CODE
1/2"	61	76	70	29	81515AD06
3/4"	65	76	70	29	81515AE06

#### Extension for built-in tap art. 515



ARTICLE	CODE
414	81414GH06

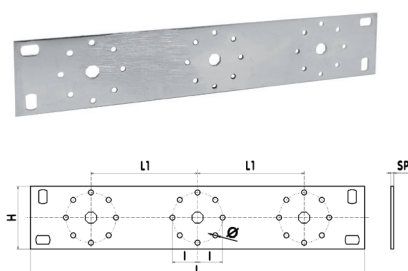
## Series 410 .....



Wall fitting										
PIPE SIZE		L	L1	L2	L3	G	G1	I	Ø	CODE
16x2	1/2"	41	25	36	52,5	1/2"	16	17.5	4.5	81410ADGH06
16x2	1/2"	41	25	36	40	1/2"	16	17.5	4.5	81410ADGH0640
18x2	1/2"	40	24	36	52,5	1/2"	16	17.5	4.5	81410ADGJ06
20x2	1/2"	41	25	36	52,5	1/2"	16	17.5	4.5	81410ADBQ06

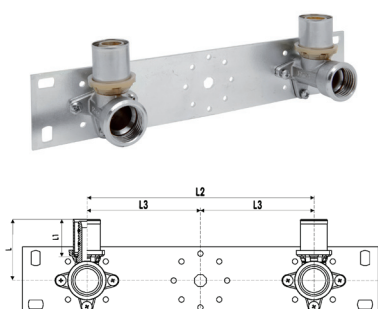
Thread ISO 228-1.

## Series 411 .....



Wall bracket							
L	L1	H	I	Ø	SP	CODE	
240	76.5	45	17,5	3.6	2	814117506	

## Series 412 .....



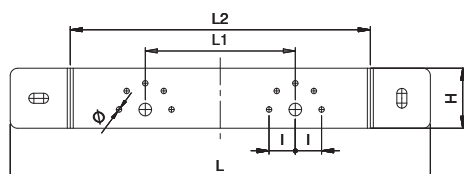
Wall fitting and bracket kit						
PIPE SIZE		L	L1	L2	L3	CODE
16x2	1/2"	41	25	153	76.5	81412ADGH7506
16x2	1/2"	41	25	153	76.5	81412ADBQ7506

Thread ISO 228-1.

## Series 432 .....



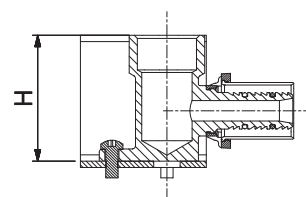
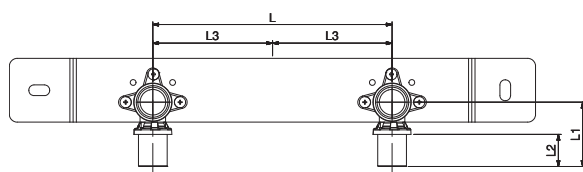
Shaped bracket for plasterboard installation								
L	L1	L2	L3	H	I	Ø	SP	CODE
280	100	200	42	40	17,5	3,6	2	8143210006
330	150	250	42	40	17,5	3,6	2	8143215006



## Series 433 .....



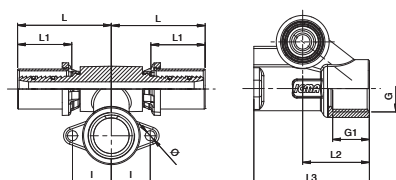
Kit for wall mounting							
PIPE SIZE		L	L1	L2	L3	H	CODE
16x2	1/2"	100	40	20	50	52,5	81433ADGH10006
16x2	1/2"	150	40	20	75	52,5	81433ADGH15006
16x2	1/2"	100	40	20	50	40	81433ADGH100064
16x2	1/2"	150	40	20	75	40	81433ADGH150064



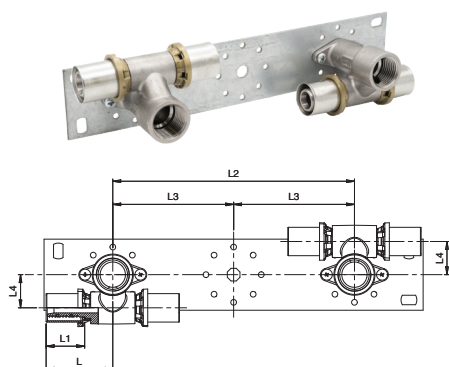
## Series 422 .....



Wall fitting										
PIPE SIZE		L	L1	L2	L3	G	G1	I	Ø	CODE
16x2	1/2"	42	24	30	52	1/2"	15	17.5	4.5	81422ADGH06
20x2	1/2"	42	24	30	52	1/2"	15	17.5	4.5	81422ADBQ06

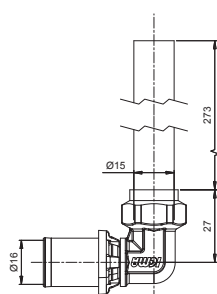


## Series 423 .....



Wall bracket							
PIPE SIZE		L	L1	L2	L3	L4	CODE
16x2	1/2"	42	24	153	76,5	21	81423ADGH7506
20x2	1/2"	42	24	153	76,5	21	81423ADBQ7506

## Series 418 .....



Welded angled fitting						
PIPE SIZE		L	L1	H	H1	CODE
16x2	15	140	25	300	27	81418GHGE06

## Series 419 .....



Welded TEE fitting								
PIPE SIZE		L	L1	L2	L3	L4	H	CODE
16x2	15	82	41	27	40	57	300	81419GHGE06

