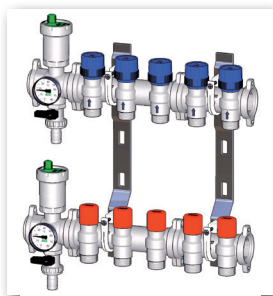


Thermo-electric manifolds and spare parts

04

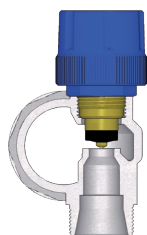
Thermo-electric manifolds	135
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FAR thermo-electric manifolds are suitable for flow distribution within heating and cooling systems.

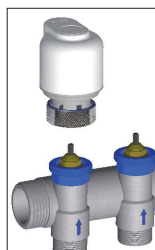
They are available in 1", 1"1/4 and 1"1/2 sizes.

MANIFOLDS SUITABLE FOR THERMO-ELECTRIC ACTUATORS – RETURN CIRCUIT



The special shape of FAR manifolds facilitates high flow rates by reducing flow resistance.

This special feature permits optimum choice of manifold diameter in relation to the number of circuits to be connected.

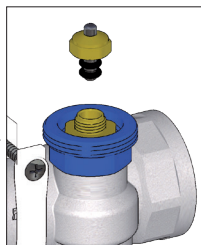
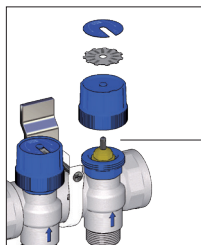


Thermo-electric actuator installation

Screw the thermo-electric actuator by hand and tighten the ring.



Do not use plumbing wrenches, tongs or other similar tools.



The return manifold is equipped with a blue handle and two silk-screen printed discs for circuit identification.

A thermo-electric actuator can be fixed to the manifold once the blue handle is removed.

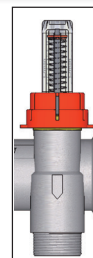
Thanks to the simple safety system, it is possible to replace the double O-ring seal of the body, without any need to drain the system.

MANIFOLDS WITH LOCKSHIELD VALVES OR FLOWMETERS - SUPPLY CIRCUIT

The supply manifold is equipped with a micrometric regulation system, with which it is possible to regulate or shut off flow within the system.

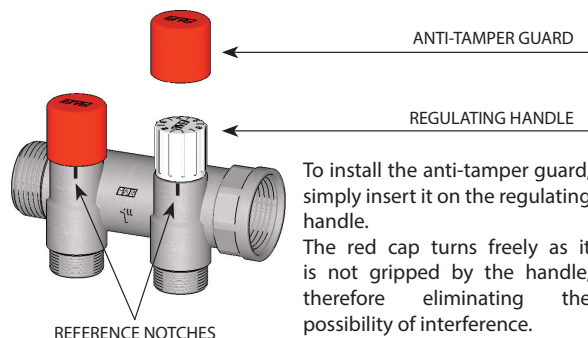
FAR offers two different versions

- one provided with flowmeters for flow-rate control
- one provided with a new balancing body



BALANCING LOCKSHIELD VALVES

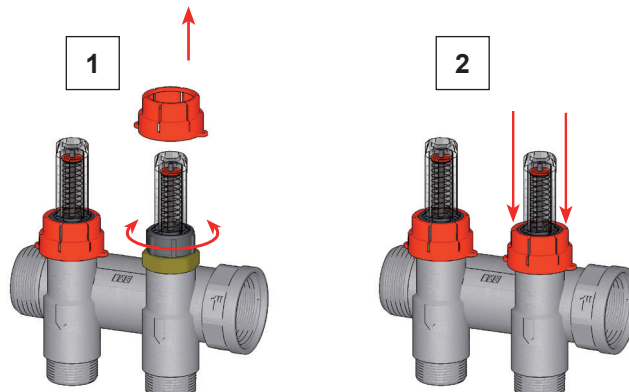
Adjustment is carried out by means of the handle indicating the reference numbers. The handle stroke is less than 360° and ranges between position 0 (lockshield valve fully closed) and 5.5 (lockshield valve fully open). The handle position is easily identified by the reference notches on the manifold.



To install the anti-tamper guard, simply insert it on the regulating handle. The red cap turns freely as it is not gripped by the handle, therefore eliminating the possibility of interference.

FLOWMETERS

To fully open and then balance the flowmeters, remove the anti-tampering device and turn the regulating valve clockwise to decrease flow, or counterclockwise to increase it (**picture No. 1**). Once balancing has been completed, lock the flowmeter again with the anti-tampering device (**picture No. 2**).



Chrome-plated brass FLANGED modular return manifold.

- Body made of CB753S brass
- Built-in shut-off valves suitable for thermo-electric actuators
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Centre distance between ports: mm.50



ART. 3914

Code	outlets	size	€	box
3914 102	2	1"		1
3914 103	3	1"		1
3914 104	4	1"		1
3914 105	5	1"		1
3914 106	6	1"		1
3914 107	7	1"		1
3914 108	8	1"		1
3914 109	9	1"		1
3914 110	10	1"		1
3914 111	11	1"		1
3914 112	12	1"		1

Chrome-plated brass FLANGED modular supply manifold.

- Body made of CB753S brass
- Built-in balancing lockshield valves
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Centre distance between ports: mm.50
- **Patented**



ART. 3915

Code	outlets	size	€	box
3915 102	2	1"		1
3915 103	3	1"		1
3915 104	4	1"		1
3915 105	5	1"		1
3915 106	6	1"		1
3915 107	7	1"		1
3915 108	8	1"		1
3915 109	9	1"		1
3915 110	10	1"		1
3915 111	11	1"		1
3915 112	12	1"		1

Chrome-plated brass FLANGED modular supply manifold.

- Body made of CB753S brass
- Flowmeters and flow-rate balancing valves
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50

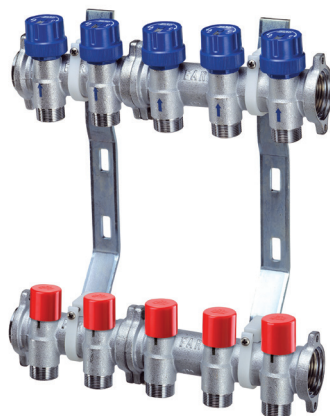


ART. 3972

Code	outlets	size	€	box
3972 102	2	1"		1
3972 103	3	1"		1
3972 104	4	1"		1
3972 105	5	1"		1
3972 106	6	1"		1
3972 107	7	1"		1
3972 108	8	1"		1
3972 109	9	1"		1
3972 110	10	1"		1
3972 111	11	1"		1
3972 112	12	1"		1

PRE-ASSEMBLED chrome-plated brass FLANGED manifold complete with:

- Supply manifold with built-in balancing lockshield valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Centre distance between ports: mm.50



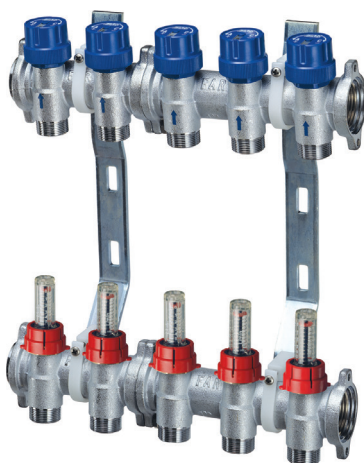
ART. 3916



Code	outlets	size	€	box
3916 102	2	1"		1
3916 103	3	1"		1
3916 104	4	1"		1
3916 105	5	1"		1
3916 106	6	1"		1
3916 107	7	1"		1
3916 108	8	1"		1
3916 109	9	1"		1
3916 110	10	1"		1
3916 111	11	1"		1
3916 112	12	1"		1

PRE-ASSEMBLED chrome-plated brass FLANGED manifold complete with:

- Supply manifold with flowmeters and flow-rate balancing valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50



ART. 3973



Code	outlets	size	€	box
3973 102	2	1"		1
3973 103	3	1"		1
3973 104	4	1"		1
3973 105	5	1"		1
3973 106	6	1"		1
3973 107	7	1"		1
3973 108	8	1"		1
3973 109	9	1"		1
3973 110	10	1"		1
3973 111	11	1"		1
3973 112	12	1"		1

Chrome-plated brass FLANGED modular manifold complete with:

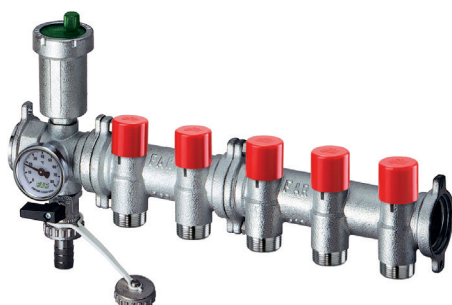
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connection, art. 3445 complete with automatic air vent valve, temperature gauge and drain cock.
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Centre distance between ports: mm.50

**ART. 3463**

Code	outlets	size	€	box
3463 104	4	1"		1
3463 105	5	1"		1
3463 106	6	1"		1
3463 107	7	1"		1
3463 108	8	1"		1
3463 109	9	1"		1
3463 110	10	1"		1
3463 111	11	1"		1
3463 112	12	1"		1

Chrome-plated brass FLANGED modular manifold complete with:

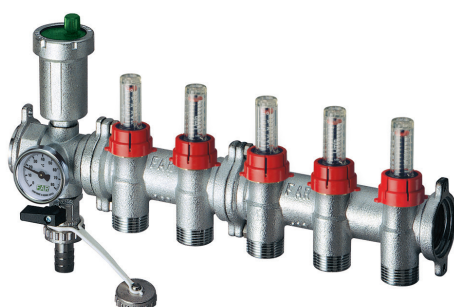
- Supply manifold with built-in balancing lockshield valves
- Intermediate connection, art. 3445 complete with automatic air vent valve, temperature gauge and drain cock.
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Centre distance between ports: mm.50
- **Patented**

**ART. 3464**

Code	outlets	size	€	box
3464 104	4	1"		1
3464 105	5	1"		1
3464 106	6	1"		1
3464 107	7	1"		1
3464 108	8	1"		1
3464 109	9	1"		1
3464 110	10	1"		1
3464 111	11	1"		1
3464 112	12	1"		1

Chrome-plated brass FLANGED modular manifold complete with:

- Supply manifold with flowmeters and flow-rate balancing valves
- Intermediate connection, art. 3445 complete with automatic air vent valve, temperature gauge and drain cock.
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50

**ART. 3562**

Code	outlets	size	€	box
3562 104	4	1"		1
3562 105	5	1"		1
3562 106	6	1"		1
3562 107	7	1"		1
3562 108	8	1"		1
3562 109	9	1"		1
3562 110	10	1"		1
3562 111	11	1"		1
3562 112	12	1"		1

PRE-ASSEMBLED chrome-plated brass FLANGED manifold complete with:

- Supply manifold with built-in balancing lockshield valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connections, art. 3445 complete with automatic air vent valve, temperature gauge and drain cock.
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Centre distance between ports: mm.50



ART. 3465



Code	outlets	size	€	box
3465 103	3	1"		1
3465 104	4	1"		1
3465 105	5	1"		1
3465 106	6	1"		1
3465 107	7	1"		1
3465 108	8	1"		1
3465 109	9	1"		1
3465 110	10	1"		1
3465 111	11	1"		1
3465 112	12	1"		1

PRE-ASSEMBLED chrome-plated brass FLANGED manifold complete with:

- Supply manifold with flowmeters and flow-rate balancing valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connections, art. 3445 complete with automatic air vent valve, temperature gauge and drain cock.
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Screws and O-rings for connection
- Connection: 1" female-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50



ART. 3563



Code	outlets	size	€	box
3563 103	3	1"		1
3563 104	4	1"		1
3563 105	5	1"		1
3563 106	6	1"		1
3563 107	7	1"		1
3563 108	8	1"		1
3563 109	9	1"		1
3563 110	10	1"		1
3563 111	11	1"		1
3563 112	12	1"		1

Chrome-plated brass modular return manifold.

- Body made of CB753S brass
- Built-in shut-off valves suitable for thermo-electric actuators
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1 1/4" male-female
- Centre distance between ports: mm.50

ART. 3913

Code	outlets	size	€	box
3913 102	2	1"		1
3913 103	3	1"		1
3913 104	4	1"		1
3913 105	5	1"		1
3913 106	6	1"		1
3913 107	7	1"		1
3913 108	8	1"		1
3913 109	9	1"		1
3913 110	10	1"		1
3913 111	11	1"		1
3913 112	12	1"		1

Code	outlets	size	€	box
3913 11402	2	1 1/4"		1
3913 11403	3	1 1/4"		1
3913 11404	4	1 1/4"		1
3913 11405	5	1 1/4"		1
3913 11406	6	1 1/4"		1
3913 11407	7	1 1/4"		1
3913 11408	8	1 1/4"		1
3913 11409	9	1 1/4"		1
3913 11410	10	1 1/4"		1
3913 11411	11	1 1/4"		1
3913 11412	12	1 1/4"		1

Chrome-plated brass modular supply manifold.

- Body made of CB753S brass
- Built-in balancing lockshield valves
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1 1/4" male-female
- Centre distance between ports: mm.50
- **Patented**

ART. 3923

Code	outlets	size	€	box
3923 102	2	1"		1
3923 103	3	1"		1
3923 104	4	1"		1
3923 105	5	1"		1
3923 106	6	1"		1
3923 107	7	1"		1
3923 108	8	1"		1
3923 109	9	1"		1
3923 110	10	1"		1
3923 111	11	1"		1
3923 112	12	1"		1

Code	outlets	size	€	box
3923 11402	2	1 1/4"		1
3923 11403	3	1 1/4"		1
3923 11404	4	1 1/4"		1
3923 11405	5	1 1/4"		1
3923 11406	6	1 1/4"		1
3923 11407	7	1 1/4"		1
3923 11408	8	1 1/4"		1
3923 11409	9	1 1/4"		1
3923 11410	10	1 1/4"		1
3923 11411	11	1 1/4"		1
3923 11412	12	1 1/4"		1

Chrome-plated brass modular supply manifold.

- Body made of CB753S brass
- Flowmeters and flow-rate balancing valves
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1 1/4" male-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50

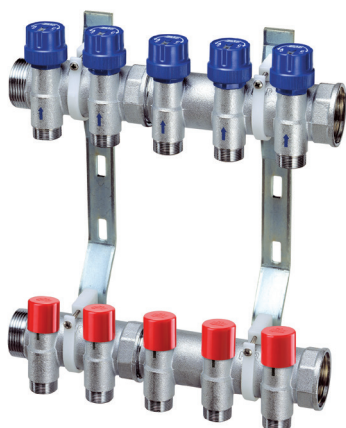
ART. 3970

Code	outlets	size	€	box
3970 102	2	1"		1
3970 103	3	1"		1
3970 104	4	1"		1
3970 105	5	1"		1
3970 106	6	1"		1
3970 107	7	1"		1
3970 108	8	1"		1
3970 109	9	1"		1
3970 110	10	1"		1
3970 111	11	1"		1
3970 112	12	1"		1

Code	outlets	size	€	box
3970 11402	2	1 1/4"		1
3970 11403	3	1 1/4"		1
3970 11404	4	1 1/4"		1
3970 11405	5	1 1/4"		1
3970 11406	6	1 1/4"		1
3970 11407	7	1 1/4"		1
3970 11408	8	1 1/4"		1
3970 11409	9	1 1/4"		1
3970 11410	10	1 1/4"		1
3970 11411	11	1 1/4"		1
3970 11412	12	1 1/4"		1

PRE-ASSEMBLED chrome-plated brass manifold complete with:

- Supply manifold with built-in balancing lockshield valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1"1/4 male-female
- Centre distance between ports: mm.50



ART. 3929



Code	outlets	size	€	box	Code	outlets	size	€	box
3929 102	2	1"		1	3929 11402	2	1"1/4		1
3929 103	3	1"		1	3929 11403	3	1"1/4		1
3929 104	4	1"		1	3929 11404	4	1"1/4		1
3929 105	5	1"		1	3929 11405	5	1"1/4		1
3929 106	6	1"		1	3929 11406	6	1"1/4		1
3929 107	7	1"		1	3929 11407	7	1"1/4		1
3929 108	8	1"		1	3929 11408	8	1"1/4		1
3929 109	9	1"		1	3929 11409	9	1"1/4		1
3929 110	10	1"		1	3929 11410	10	1"1/4		1
3929 111	11	1"		1	3929 11411	11	1"1/4		1
3929 112	12	1"		1	3929 11412	12	1"1/4		1
3929 113	13	1"		1	3929 11413	13	1"1/4		1

PRE-ASSEMBLED chrome-plated brass manifold complete with:

- Supply manifold with flowmeters and flow-rate balancing valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1"1/4 male-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50



ART. 3971



Code	outlets	size	€	box	Code	outlets	size	€	box
3971 102	2	1"		1	3971 11402	2	1"1/4		1
3971 103	3	1"		1	3971 11403	3	1"1/4		1
3971 104	4	1"		1	3971 11404	4	1"1/4		1
3971 105	5	1"		1	3971 11405	5	1"1/4		1
3971 106	6	1"		1	3971 11406	6	1"1/4		1
3971 107	7	1"		1	3971 11407	7	1"1/4		1
3971 108	8	1"		1	3971 11408	8	1"1/4		1
3971 109	9	1"		1	3971 11409	9	1"1/4		1
3971 110	10	1"		1	3971 11410	10	1"1/4		1
3971 111	11	1"		1	3971 11411	11	1"1/4		1
3971 112	12	1"		1	3971 11412	12	1"1/4		1
3971 113	13	1"		1	3971 11413	13	1"1/4		1

Chrome-plated brass modular manifold complete with:

- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connection, art. 3438 complete with automatic air vent valve, temperature gauge and drain cock.
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1"1/4 female-female
- Centre distance between ports: mm.50



ART. 3460

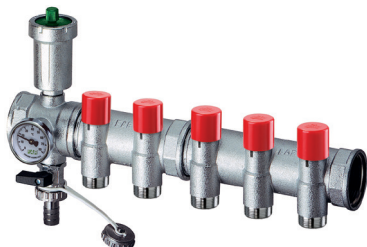


Code	outlets	size	€	box
3460 104	4	1"		1
3460 105	5	1"		1
3460 106	6	1"		1
3460 107	7	1"		1
3460 108	8	1"		1
3460 109	9	1"		1
3460 110	10	1"		1
3460 111	11	1"		1
3460 112	12	1"		1

Code	outlets	size	€	box
3460 11404	4	1"1/4		1
3460 11405	5	1"1/4		1
3460 11406	6	1"1/4		1
3460 11407	7	1"1/4		1
3460 11408	8	1"1/4		1
3460 11409	9	1"1/4		1
3460 11410	10	1"1/4		1
3460 11411	11	1"1/4		1
3460 11412	12	1"1/4		1

Chrome-plated brass modular manifold complete with:

- Supply manifold with built-in balancing lockshield valves
- Intermediate connection, art. 3438 complete with automatic air vent valve, temperature gauge and drain cock.
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1"1/4 female-female
- Centre distance between ports: mm.50
- Patented



ART. 3461

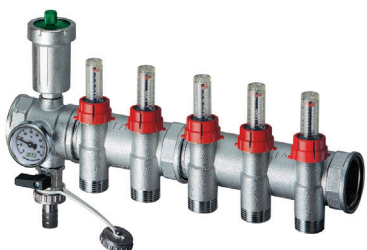


Code	outlets	size	€	box
3461 104	4	1"		1
3461 105	5	1"		1
3461 106	6	1"		1
3461 107	7	1"		1
3461 108	8	1"		1
3461 109	9	1"		1
3461 110	10	1"		1
3461 111	11	1"		1
3461 112	12	1"		1

Code	outlets	size	€	box
3461 11404	4	1"1/4		1
3461 11405	5	1"1/4		1
3461 11406	6	1"1/4		1
3461 11407	7	1"1/4		1
3461 11408	8	1"1/4		1
3461 11409	9	1"1/4		1
3461 11410	10	1"1/4		1
3461 11411	11	1"1/4		1
3461 11412	12	1"1/4		1

Chrome-plated brass modular manifold complete with:

- Supply manifold with flowmeters and flow-rate balancing valves
- Intermediate connection, art. 3438 complete with automatic air vent valve, temperature gauge and drain cock.
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1"1/4 female-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50



ART. 3560



Code	outlets	size	€	box
3560 104	4	1"		1
3560 105	5	1"		1
3560 106	6	1"		1
3560 107	7	1"		1
3560 108	8	1"		1
3560 109	9	1"		1
3560 110	10	1"		1
3560 111	11	1"		1
3560 112	12	1"		1

Code	outlets	size	€	box
3560 11404	4	1"1/4		1
3560 11405	5	1"1/4		1
3560 11406	6	1"1/4		1
3560 11407	7	1"1/4		1
3560 11408	8	1"1/4		1
3560 11409	9	1"1/4		1
3560 11410	10	1"1/4		1
3560 11411	11	1"1/4		1
3560 11412	12	1"1/4		1

PRE-ASSEMBLED chrome-plated brass manifold complete with:

- Supply manifold with built-in balancing lockshield valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connections, art. 3438 complete with automatic air vent valve, temperature gauge and drain cock.
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1"1/4 female-female
- Centre distance between ports: mm.50



ART. 3462



Code	outlets	size	€	box	Code	outlets	size	€	box
3462 102	2	1"		1	3462 11403	3	1"1/4		1
3462 103	3	1"		1	3462 11404	4	1"1/4		1
3462 104	4	1"		1	3462 11405	5	1"1/4		1
3462 105	5	1"		1	3462 11406	6	1"1/4		1
3462 106	6	1"		1	3462 11407	7	1"1/4		1
3462 107	7	1"		1	3462 11408	8	1"1/4		1
3462 108	8	1"		1	3462 11409	9	1"1/4		1
3462 109	9	1"		1	3462 11410	10	1"1/4		1
3462 110	10	1"		1	3462 11411	11	1"1/4		1
3462 111	11	1"		1	3462 11412	12	1"1/4		1
3462 112	12	1"		1	3462 11413	13	1"1/4		1
3462 113	13	1"		1	3462 11414	14	1"1/4		1
3462 114	14	1"		1					

PRE-ASSEMBLED chrome-plated brass manifold complete with:

- Supply manifold with flowmeters and flow-rate balancing valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connections, art. 3438 complete with automatic air vent valve, temperature gauge and drain cock.
- Fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
- Connection: 1" – 1"1/4 female-female
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50



ART. 3561



Code	outlets	size	€	box	Code	outlets	size	€	box
3561 102	2	1"		1	3561 11403	3	1"1/4		1
3561 103	3	1"		1	3561 11404	4	1"1/4		1
3561 104	4	1"		1	3561 11405	5	1"1/4		1
3561 105	5	1"		1	3561 11406	6	1"1/4		1
3561 106	6	1"		1	3561 11407	7	1"1/4		1
3561 107	7	1"		1	3561 11408	8	1"1/4		1
3561 108	8	1"		1	3561 11409	9	1"1/4		1
3561 109	9	1"		1	3561 11410	10	1"1/4		1
3561 110	10	1"		1	3561 11411	11	1"1/4		1
3561 111	11	1"		1	3561 11412	12	1"1/4		1
3561 112	12	1"		1	3561 11413	13	1"1/4		1
3561 113	13	1"		1	3561 11414	14	1"1/4		1
3561 114	14	1"		1					

The set point regulating and mixing units are suitable for use in underfloor heating systems for low temperature distribution, and also with combined high and low temperature supplies where high temperature circuits such as radiators are included. They are designed for connection to both flow and return lines with provision for an integral pump.



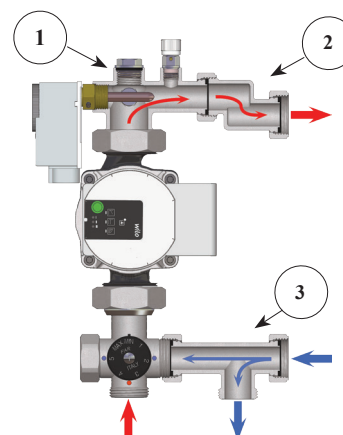
Art. 3480



Art. 3493

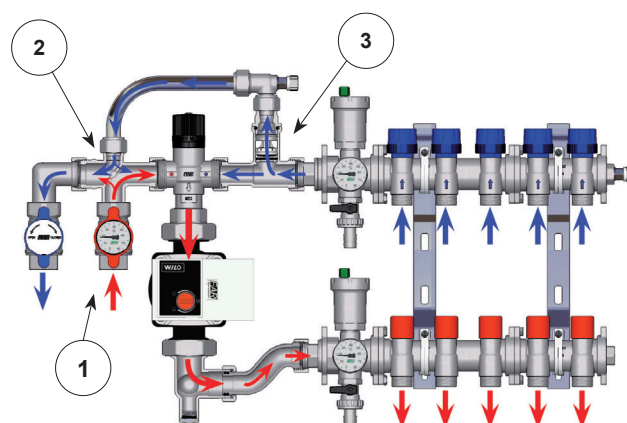
FUNCTION OF ART. 3493

The Set Point Regulation version is suitable for heating systems: this unit can be manually adjusted by turning the handle of the thermostatic mixer to the desired flow temperature value. The pump should always be installed at the mixer outlet, in place of the brass extension piece. The mixed fluid coming out of the pump passes into a fitting (1) on which it is possible to install a safety thermostat with a 1/2" connection. After the connection, the fluid passes through an eccentric (2) which allows to adapt the centre distance of the unit to the one of the manifolds that will be installed. Fluid coming back from the heating circuit passes through a fitting (3) that allows a part of water to re-enter to the boiler, while the remainder is diverted to the thermostatic mixer to mix with the high temperature one.



FUNCTION OF ART. 3480

Circulation is as follows: the high temperature water supplied from the boiler reaches the mixer unit through a ball valve (1) and a by-pass diverter connection (2). The connection (2) makes it possible to divert the high temperature water refused by the thermostatic mixer back to the boiler while, the same time, it directing to the boiler the water coming from the manifolds through the return connection (3). The mixer unit is designed to ensure a constant supply of water at the required temperature to the underfloor heating loops - blending in supplies of high temperature water from the boiler as necessary. Water leaves the mixer unit and is pumped to the flow side of the manifolds from whence it is distributed to the individual underfloor heating loops. Water coming back from the loops enters the return side of the manifolds and through the return connection (3) a proportion of the water re-enters the mixing unit restarting circulation while the remainder is diverted back to the boiler.



THERMOSTATIC MIXER

The thermostatic mixer is designed to ensure a constant supply of water for the low temperature system. The delivery temperature set-up must be carried out when starting up the system taking the design temperature as a reference. An initial set-up can be achieved based on the relation between the setting on the mixer and the flow water temperature. See below:

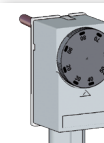
POSITION	Min.	1	2	3	4	5	Max
T ±2 [°C]	18	20	22	30	40	50	55



IMMERSION SAFETY THERMOSTAT

The immersion thermostat located on the regulating and mixing unit is designed to shut down the pump, or the boiler, when required. It is a liquid-filled type thermostat. The graduated knob allows the operator to set the maximum temperature value for the system.

Temperature setting range: 10 - 90°C



PUMPS FOR UNDERFLOOR HEATING SYSTEMS

In order to operate correctly, the plastic template on the unit must ALWAYS be replaced with an appropriately sized pump in order to avoid flow resistance in the low temperature circuit. FAR offers the following kind of pump to complement these units:

- Art.2185 130EA:** **Electronic pump, high efficiency electronic pump, with 130mm centre distance. Variable head: from 1 to 7m.**

The pumps have a 130mm centre distance, 1 1/2" male connections and 230 V supply.

Set point regulating unit for underfloor heating systems.

- Primary side connections (boiler): 1" male
- Secondary side connections (manifold): 1" female with swiveling nut



ART. 3493

Code	size	€	box
3493 1	1"		1

ACCESSORIES:



PUMP

The pump will be supplied pre-assembled

Code	pump	€
2185 130EA	High efficiency electronic pump	

NB Pumps are supplied only in combination with art. 3493-3497

Set point regulating unit for underfloor heating systems.

- Connection to flow and return pipelines: 3/4" female



ART. 3480

Code	size	€	box
3480 34	3/4"		1
3480 1	1"		1
3480 114	1"1/4		1

ACCESSORIES:



PUMP

The pump will be supplied pre-assembled

Code	pump	€
2185 130EA	High efficiency electronic pump	

NB Pumps are supplied only in combination with art. 3477-3480

Set point regulating unit complete with thermostatic valve.

- Primary side connections (boiler): 1/2" female
- Secondary side connections (manifold): 1" male with O-ring
- Temperature gauges: 0-80°C
- Manual air vent valve
- Side adjustable drain cock
- Primary side balancing lockshield valve
- Temperature range of thermostatic valve: 10 ÷ 50°C



ART. 3497

Code	size	€	box
3497 1	1"		1



IMMERSION SAFETY THERMOSTAT

Code	Thermostat type	€
7950	immersion	

Pre-assembled unit for underfloor heating systems, complete with set point regulating unit and high temperature distribution manifolds.

- Interchangeable sizes for copper, plastic and multilayer pipes
- Fixing brackets, art. 7480



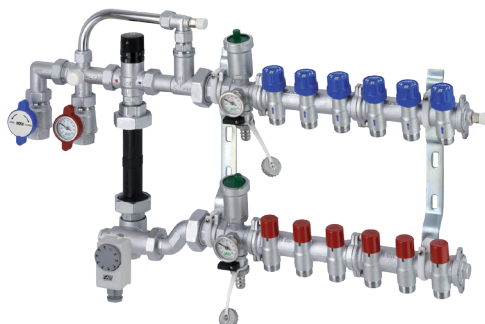
ART. 3477



Code	radiator outlets	size	€	box
3477 102	2	1"		1
3477 103	3	1"		1
3477 104	4	1"		1
3477 105	5	1"		1

Pre-assembled unit for underfloor heating systems, complete with:

- set point regulating unit
 - low temperature supply manifold with built-in balancing lockshield valves
 - low temperature return manifold with built-in shut-off valves
 - fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
 - Centre distance between ports: mm.50

**ART. 3481**

Code	outlets	size	€	box
3481 102	2	1"		1
3481 103	3	1"		1
3481 104	4	1"		1
3481 105	5	1"		1
3481 106	6	1"		1
3481 107	7	1"		1
3481 108	8	1"		1
3481 109	9	1"		1
3481 110	10	1"		1
3481 111	11	1"		1
3481 112	12	1"		1

ACCESSORIES:**PUMP**

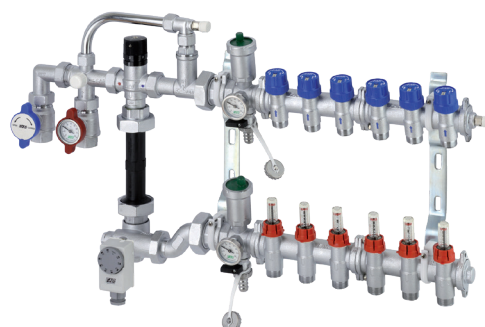
The pump will be supplied pre-assembled

Code	pump	€
2185 130EA	High efficiency electronic pump	

NB Pumps are supplied only in combination with art. 3481

Pre-assembled unit for underfloor heating systems, complete with:

- set point regulating unit
 - low temperature supply manifold with flowmeters and flow-rate balancing valves
 - low temperature return manifold with built-in shut-off valves
 - fixing brackets, art. 7480
- Interchangeable sizes for copper, plastic and multilayer pipes
 - Flowmeters range: 0-5 l/min
 - Centre distance between ports: mm.50

**ART. 3564**

Code	outlets	size	€	box
3564 102	2	1"		1
3564 103	3	1"		1
3564 104	4	1"		1
3564 105	5	1"		1
3564 106	6	1"		1
3564 107	7	1"		1
3564 108	8	1"		1
3564 109	9	1"		1
3564 110	10	1"		1
3564 111	11	1"		1
3564 112	12	1"		1

ACCESSORIES:**PUMP**

The pump will be supplied pre-assembled

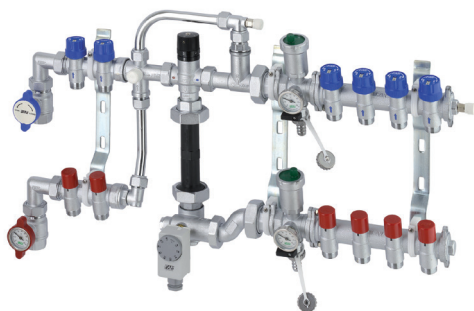
Code	pump	€
2185 130EA	High efficiency electronic pump	

NB Pumps are supplied only in combination with art. 3564

Pre-assembled mixed unit for underfloor heating systems complete with:

- set point regulating unit
- low temperature supply manifold with built-in balancing lockshield valves
- low temperature return manifold with built-in shut-off valves
- high temperature distribution manifolds
- fixing brackets, art. 7480

- Interchangeable sizes for copper, plastic and multilayer pipes
- Centre distance between ports: mm.50



ART. 3483



Code	floor outlets	radiator outlets	size	€	box
3483 10302	3	2	1"		1
3483 10402	4	2	1"		1
3483 10502	5	2	1"		1
3483 10602	6	2	1"		1
3483 10702	7	2	1"		1
3483 10802	8	2	1"		1
3483 10902	9	2	1"		1
3483 11002	10	2	1"		1
3483 11102	11	2	1"		1
3483 10303	3	3	1"		1
3483 10403	4	3	1"		1
3483 10503	5	3	1"		1
3483 10603	6	3	1"		1
3483 10703	7	3	1"		1
3483 10803	8	3	1"		1
3483 10903	9	3	1"		1
3483 11003	10	3	1"		1

ACCESSORIES:



PUMP

The pump will be supplied pre-assembled

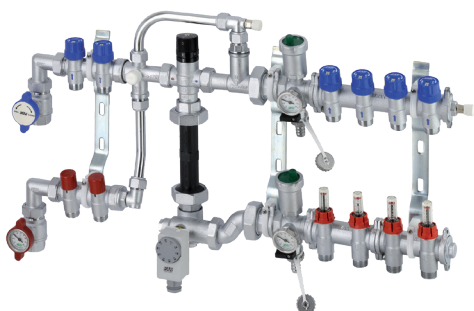
Code	pump	€
2185 130EA	High efficiency electronic pump	

NB Pumps are supplied only in combination with art. 3483

Pre-assembled mixed unit for underfloor heating systems complete with:

- set point regulating unit
- low temperature supply manifold with flowmeters and flow-rate balancing valves
- low temperature return manifold with built-in shut-off valves
- high temperature distribution manifolds
- fixing brackets, art. 7480

- Interchangeable sizes for copper, plastic and multilayer pipes
- Flowmeters range: 0-5 l/min
- Centre distance between ports: mm.50



ART. 3566



Code	floor outlets	radiator outlets	size	€	box
3566 10302	3	2	1"		1
3566 10402	4	2	1"		1
3566 10502	5	2	1"		1
3566 10602	6	2	1"		1
3566 10702	7	2	1"		1
3566 10802	8	2	1"		1
3566 10902	9	2	1"		1
3566 11002	10	2	1"		1
3566 11102	11	2	1"		1
3566 10303	3	3	1"		1
3566 10403	4	3	1"		1
3566 10503	5	3	1"		1
3566 10603	6	3	1"		1
3566 10703	7	3	1"		1
3566 10803	8	3	1"		1
3566 10903	9	3	1"		1
3566 11003	10	3	1"		1

ACCESSORIES:



PUMP

The pump will be supplied pre-assembled

Code	pump	€
2185 130EA	High efficiency electronic pump	

NB Pumps are supplied only in combination with art. 3566

Modulating/Regulating units for underfloor heating systems are available in HOT only or HOT/COLD versions. They are equipped with a 3-point actuator and a mixing valve. Used in association with a control unit they can manage the flow temperature of an underfloor heating system in accordance with climatic and room conditions.

The MODULATING version is suitable for both heating and cooling systems: the main feature is the facility to manage the plant by modulating the supply temperature via a control unit equipped with an external temperature probe. This version can be also used as a set point regulating unit.

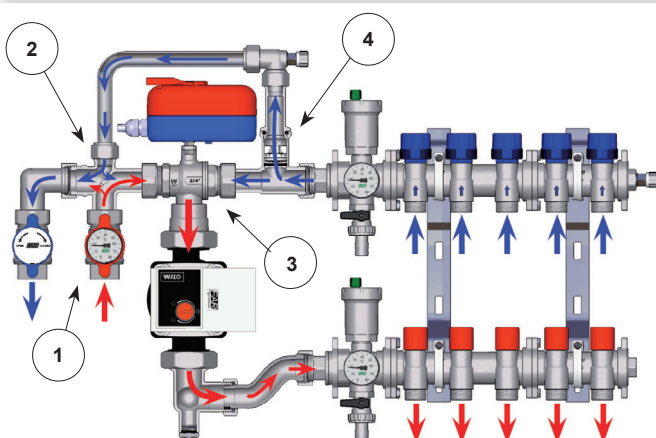
The brass template at the outlet of the mixing valve must always be replaced by a pump.

The unit is equipped with a by-pass between the supply and return sides of the boiler and a safety thermostat.

It is also available with pre-assembled manifolds for distribution of flow for low temperature only, high temperature only, or both.



Art. 3490



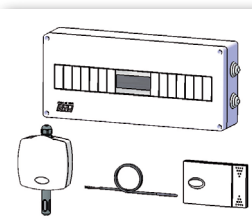
The mixing valve is designed to ensure a constant supply of water, blended to the required temperature, to the underfloor heating loops. Circulation is as follows: water leaves the mixing valve (3), passes through the pump (installed in place of the template) and is pumped to the flow side of the manifolds from whence it is distributed to the individual underfloor heating loops. Water coming back from the loops enters the return side of the manifolds and, passing through the return connection (4), re-enters the mixing valve. High temperature water is supplied from the boiler to the mixing valve via a ball valve (1) and diverter connection (2). As it enters the mixing valve an equal volume of lower temperature return water is diverted back to the boiler, passing first through fitting 4 and then through fitting 2, thus automatically keeping the system in balance.



HOT ONLY (HEATING)

If you wish to set up to a "hot only" system, you will require both the regulating unit and an electronic control unit, Art. 9611, comprising:

- HOT Only electronic control unit
- Supply temperature probe
- External temperature probe
- Seat for supply probe



HOT and COLD (HEATING and COOLING)

However, if you need to use a climatic control which operates the circuit in winter and summer, you will also require a control unit, art.9610. It comprises:

- HOT - COLD electronic control unit
- Supply temperature probe
- External temperature probe
- Internal temperature + humidity probe
- Seat for supply probe
- Box for control unit

PUMPS FOR UNDERFLOOR HEATING SYSTEMS

In order to operate correctly, the brass template on the unit must ALWAYS be replaced with an appropriately sized pump in order to avoid flow resistance in the low temperature circuit. FAR offers the following kind of pump to complement these units:

- **Art.2185 130EA:** Electronic pump, high efficiency electronic pump, with 130mm centre distance. Variable head: from 1 to 7m.

The pumps have a 130mm centre distance, 1 1/2" male connections and 230 V supply.

The pumps are only sold in combination with pre-assembled units.

Modulating regulating unit for underfloor heating systems, complete with 3-point actuator.

- Connection to flow and return pipelines: 3/4" female



ACCESSORIES:



PUMP

The pump will be supplied pre-assembled

Code	pump	€
2185 130EA	High efficiency electronic pump	



CONTROL UNIT

Code	electronic regulation type	€
9610	hot and cold	
9611	hot only	

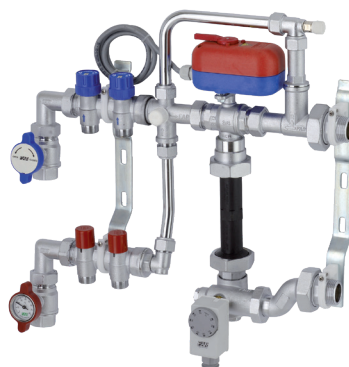
NB Pumps and control units are supplied only in combination with art. 3490

ART. 3490

Code	size	voltage	€	box
3490 110	1"	230 V		1

Pre-assembled unit for underfloor heating systems, complete with 3-point actuator and high temperature distribution manifolds.

- Interchangeable sizes for copper, plastic and multilayer pipes
- Fixing brackets, art. 7480



ACCESSORIES:



PUMP

The pump will be supplied pre-assembled

Code	pump	€
2185 130EA	High efficiency electronic pump	



CONTROL UNIT

Code	electronic regulation type	€
9610	hot and cold	
9611	hot only	

NB Pumps and control units are supplied only in combination with art. 3491

ART. 3491



Code	radiator outlets	size	voltage	€	box
3491 10210	2	1"	230 V		1
3491 10310	3	1"	230 V		1
3491 10410	4	1"	230 V		1
3491 10510	5	1"	230 V		1

TEMPERATURE GAUGE HOLDER ball valve, complete with swiveling elbow.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- Male connection with O-ring in EPDM suitable for FAR manifolds only
- Designed for installation of temperature gauge, art. 2653



ART. 3062

Code	size	handle	€	box	pack
3062 134B	3/4" F x 1" M	blue		3	30
3062 134R	3/4" F x 1" M	red		3	30
3062 1B	1" F x 1" M	blue		3	30
3062 1R	1" F x 1" M	red		3	30

TEMPERATURE GAUGE HOLDER ball valve, complete with swiveling elbow.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- Female connection with swiveling nut and sealing gasket
- Designed for installation of temperature gauge, art. 2653



ART. 3064

Code	size	handle	€	box	pack
3064 1B	1" F x 1" F	blue		3	30
3064 1R	1" F x 1" F	red		3	30

TEMPERATURE GAUGE HOLDER ball valve, complete with manifolds connection.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- Male connection with O-ring in EPDM suitable for FAR manifolds only
- Designed for installation of temperature gauge, art. 2653

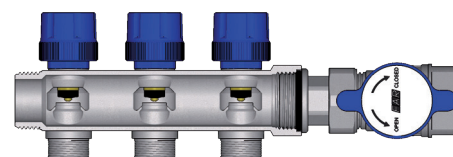


ART. 3057



ART. 3058

Code	size	handle	€	box	pack
3057 1B	1" F x 1" M	blue		5	50
3057 1R	1" F x 1" M	red		5	50
3058 1B	1" F x 1" M	blue		5	50
3058 1R	1" F x 1" M	red		5	50



Connection overview of ART. 3057 - 3058 to FAR manifolds
 Sealing between valve and manifold is guaranteed by means of O-Ring

TEMPERATURE GAUGE HOLDER ball valve.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PRESSFAR connection for multilayer pipe
- Designed for installation of temperature gauge, art. 2653



ART. 5942



ART. 5943

Code	size	handle	Ø pipe	€	box	pack
59422601	3/4"	blue	26x3		4	40
59422602	3/4"	red	26x3		4	40
59422603	1"	blue	26x3		4	40
59422604	1"	red	26x3		4	40
59423201	3/4"	blue	32x3		4	40
59423202	3/4"	red	32x3		4	40
59423203	1"	blue	32x3		4	40
59423204	1"	red	32x3		4	40

Code	size	handle	Ø pipe	€	box	pack
59432601	3/4"	blue	26x3		4	40
59432602	3/4"	red	26x3		4	40
59432603	1"	blue	26x3		4	40
59432604	1"	red	26x3		4	40
59433201	3/4"	blue	32x3		4	40
59433202	3/4"	red	32x3		4	40
59433203	1"	blue	32x3		4	40
59433204	1"	red	32x3		4	40

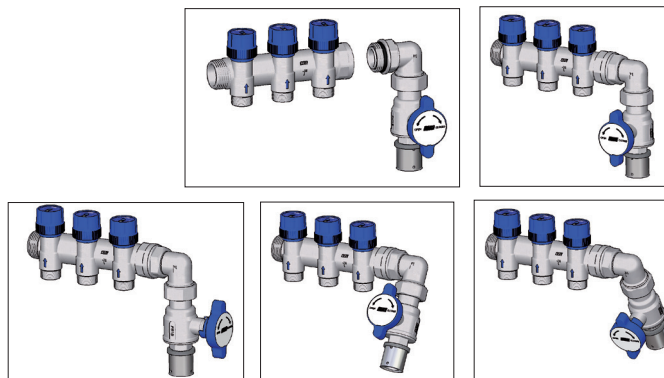
TEMPERATURE GAUGE HOLDER ball valve, complete with swiveling elbow.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PRESSFAR connection for multilayer pipe
- Male connection with O-ring in EPDM suitable for FAR manifolds only
- Designed for installation of temperature gauge, art. 2653



ART. 5951

Code	size	handle	Ø pipe	€	box	pack
59512601	1"	blue	26x3		3	30
59512602	1"	red	26x3		3	30
59513201	1"	blue	32x3		3	30
59513202	1"	red	32x3		3	30



Installation overview

TEMPERATURE GAUGE-HOLDER ball valve complete with swiveling nut.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- EPDM sealing O-rings
- Nominal pressure: 10 bar
- Connections: female-female
- Max. working temperature: 95°C
- Manual air vent valve
- Designed for installation of temperature gauge, art. 2653

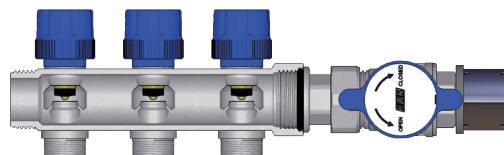


ART. 3078

Code	size	Ø nut	handle	€	box	pack
3078 11BC	1"	1"	blue		1	10
3078 11RC	1"	1"	red		1	10
3078 1112BC	1"	1"1/2	blue		1	10
3078 1112RC	1"	1"1/2	red		1	10

TEMPERATURE GAUGE HOLDER ball valve, complete with manifolds connection.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PRESSFAR connection for multilayer pipe
- Male connection with O-ring in EPDM suitable for FAR manifolds only
- Designed for installation of temperature gauge, art. 2653



Connection overview of ART. 5948 - 5949 to FAR manifolds
Sealing between valve and manifold is guaranteed by means of O-Ring



ART. 5948



ART. 5949

Code	size	handle	Ø pipe	€	box	pack
59482601	1"	blue	26x3		4	40
59482602	1"	red	26x3		4	40
59483201	1"	blue	32x3		4	40
59483202	1"	red	32x3		4	40
59492601	1"	blue	26x3		4	40
59492602	1"	red	26x3		4	40
59493201	1"	blue	32x3		4	40
59493202	1"	red	32x3		4	40

Ø 40 mm bimetallic temperature gauge

- Temperature scale: 0÷80°C - 0÷120°C
- 36 mm sheath



ART. 2653

Code	temperature scale	€	box	pack
2653 80	0-80° C		1	240
2653 120	0-120° C		1	240

Chrome-plated brass modular manifold.

- Body made of CB753S brass
- Built-in shut-off valves suitable for thermo-electric actuators
- Interchangeable sizes for d. 25-26 plastic and multilayer pipes
- Connection: 1"1/2 male-female
- Centre distance between ports: mm.70



ART. 3910

Code	outlets	size	€	box
3910 11202	2	1"1/2		1
3910 11203	3	1"1/2		1
3910 11204	4	1"1/2		1
3910 11205	5	1"1/2		1
3910 11206	6	1"1/2		1
3910 11207	7	1"1/2		1
3910 11208	8	1"1/2		1
3910 11209	9	1"1/2		1
3910 11210	10	1"1/2		1
3910 11211	11	1"1/2		1
3910 11212	12	1"1/2		1

Chrome-plated brass modular manifold.

- Body made of CB753S brass
- Built-in vertical regulating valves
- Interchangeable sizes for d. 25-26 plastic and multilayer pipes
- Connection: 1"1/2 male-female
- Centre distance between ports: mm.70



ART. 3920

Code	outlets	size	€	box
3920 11202	2	1"1/2		1
3920 11203	3	1"1/2		1
3920 11204	4	1"1/2		1
3920 11205	5	1"1/2		1
3920 11206	6	1"1/2		1
3920 11207	7	1"1/2		1
3920 11208	8	1"1/2		1
3920 11209	9	1"1/2		1
3920 11210	10	1"1/2		1
3920 11211	11	1"1/2		1
3920 11212	12	1"1/2		1

PRE-ASSEMBLED chrome-plated brass manifold complete with:

- Supply manifold with built-in regulating valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Fixing brackets, art. 7470

- Body made of CB753S brass
- Interchangeable sizes for d. 25-26 plastic and multilayer pipes
- Connection: 1"1/2 male-female
- Centre distance between ports: mm.70



ART. 3927

Code	outlets	size	€	box
3927 11202	2	1"1/2		1
3927 11203	3	1"1/2		1
3927 11204	4	1"1/2		1
3927 11205	5	1"1/2		1
3927 11206	6	1"1/2		1
3927 11207	7	1"1/2		1
3927 11208	8	1"1/2		1
3927 11209	9	1"1/2		1
3927 11210	10	1"1/2		1
3927 11211	11	1"1/2		1
3927 11212	12	1"1/2		1

Adapter for PLASTIC pipe suitable for FAR manifolds. Complete with chrome-plated nut with M33x1,5 thread.



ART. 6049

Code	pipe	size	€	box	pack
6049 219834	plastic	25x2,3		25	250

Adapter for MULTILAYER pipe suitable for FAR manifolds. Complete with chrome-plated nut with M33x1,5 thread.



ART. 6057

Code	pipe	size	€	box	pack
6057 263274	multilayer	20x2		25	250
6057 263264	multilayer	20x2,25		25	250
6057 263265	multilayer	20x2,5		25	250
6057 219218	multilayer	25x2,5		25	250
6057 220218	multilayer	26x3		25	250

Chrome-plated brass modular manifold complete with:

- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connection, art. 3438
- Body made of CB753S brass
- Interchangeable sizes for d. 25-26 plastic and multilayer pipes
- Connection: 1"1/2 female-female
- Centre distance between ports: mm.70



ART. 3457

Code	outlets	size	€	box
3457 11204	4	1"1/2		1
3457 11205	5	1"1/2		1
3457 11206	6	1"1/2		1
3457 11207	7	1"1/2		1
3457 11208	8	1"1/2		1
3457 11209	9	1"1/2		1
3457 11210	10	1"1/2		1
3457 11211	11	1"1/2		1
3457 11212	12	1"1/2		1

Chrome-plated brass modular manifold complete with:

- Supply manifold with built-in regulating valves
- Intermediate connection, art. 3438
- Body made of CB753S brass
- Interchangeable sizes for d. 25-26 plastic and multilayer pipes
- Connection: 1"1/2 female-female
- Centre distance between ports: mm.70



ART. 3458

Code	outlets	size	€	box
3458 11204	4	1"1/2		1
3458 11205	5	1"1/2		1
3458 11206	6	1"1/2		1
3458 11207	7	1"1/2		1
3458 11208	8	1"1/2		1
3458 11209	9	1"1/2		1
3458 11210	10	1"1/2		1
3458 11211	11	1"1/2		1
3458 11212	12	1"1/2		1

PRE-ASSEMBLED chrome-plated brass manifold complete with:

- Supply manifold with built-in regulating valves
- Return manifold with built-in shut-off valves suitable for thermo-electric actuators
- Intermediate connections, art. 3438
- Fixing brackets, art. 7470
- Body made of CB753S brass
- Interchangeable sizes for d. 25-26 plastic and multilayer pipes
- Centre distance between ports: mm.70
- Connection: 1"1/2 female-female



ART. 3459

Code	outlets	size	€	box
3459 11202	2	1"1/2		1
3459 11203	3	1"1/2		1
3459 11204	4	1"1/2		1
3459 11205	5	1"1/2		1
3459 11206	6	1"1/2		1
3459 11207	7	1"1/2		1
3459 11208	8	1"1/2		1
3459 11209	9	1"1/2		1
3459 11210	10	1"1/2		1
3459 11211	11	1"1/2		1
3459 11212	12	1"1/2		1

Cap for outlets with M33x1,5 thread.



ART. 4102

Code	€	box
4102		1

Chrome-plated reduction with M33X1,5 thread.
Ø 18-22 versions are complete with sealing kit.



ART. 8852

Code	from size	to size	€	box
8852 30	25-26	24x19		25
8852 G1830	25-26	24x19 Ø 18		25
8852 G2230	25-26	Ø 22		25

Chrome-plated temperature gauge fitting complete with bimetallic temperature gauge.

- Interchangeable sizes for d. 25-26 plastic and multilayer pipes
- Temperature gauge: 0÷80°C

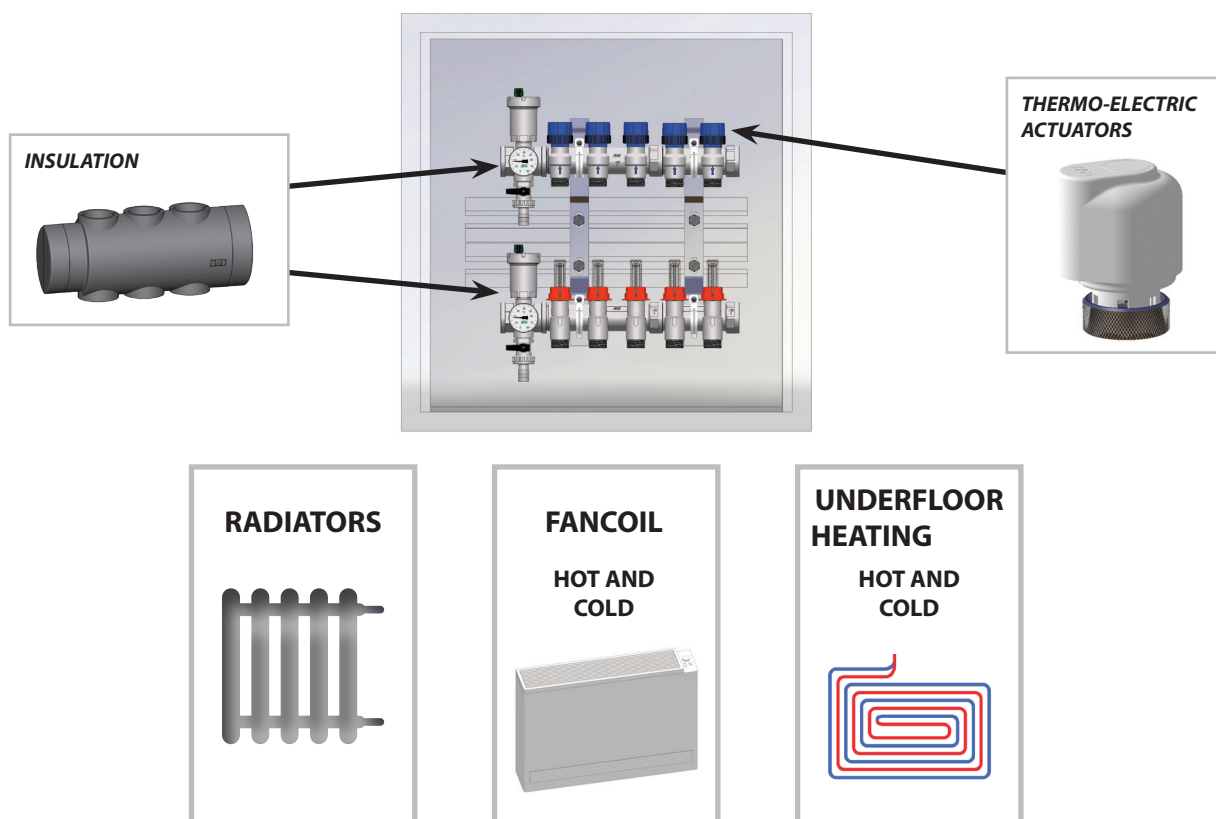


ART. 3427

Code	€	box
3427		1

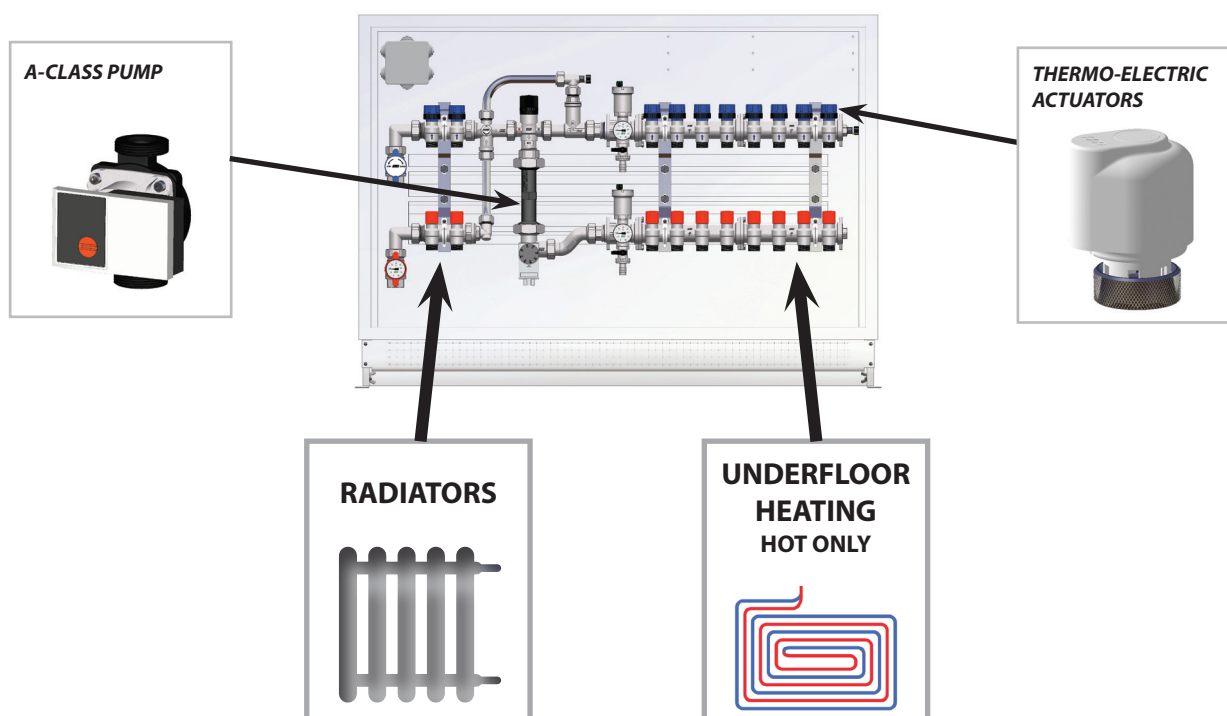
THERMO-ELECTRIC MANIFOLDS

This kind of manifolds is suitable in case of heating systems with radiators or in case of underfloor and/or fan coils heating and cooling systems. The system can be divided in different areas by installing thermo-electric actuators on each manifold outlet. Insulation shells to cover the manifolds are available, if needed.



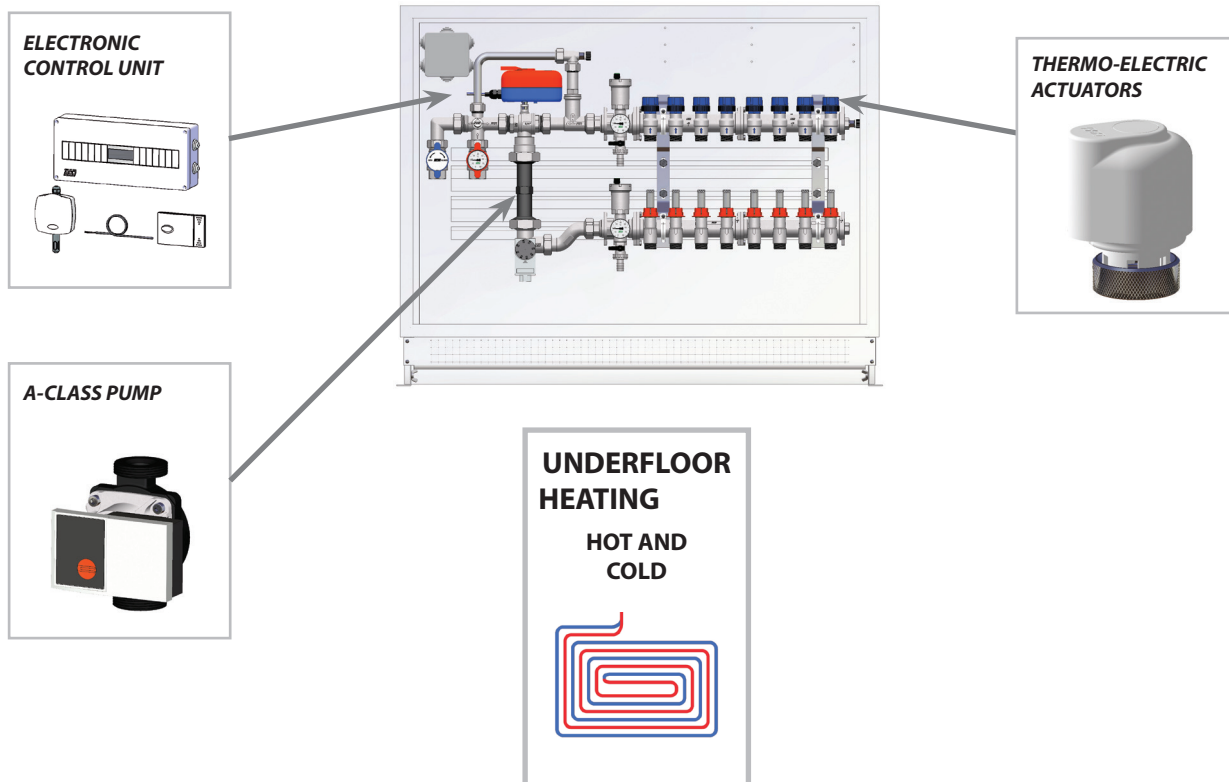
SET POINT REGULATING UNIT

The set point regulating unit allows to have a heating system with two temperature levels. The high temperature works with the heat generator pump and is suitable to be connected to the radiators. The set point mixing group allows to reduce the temperature until the desired value is reached and to distribute the fluid through a pump to the manifolds connected to the underfloor heating. The system can be divided in different areas by installing thermo-electric actuators on each manifold outlet.



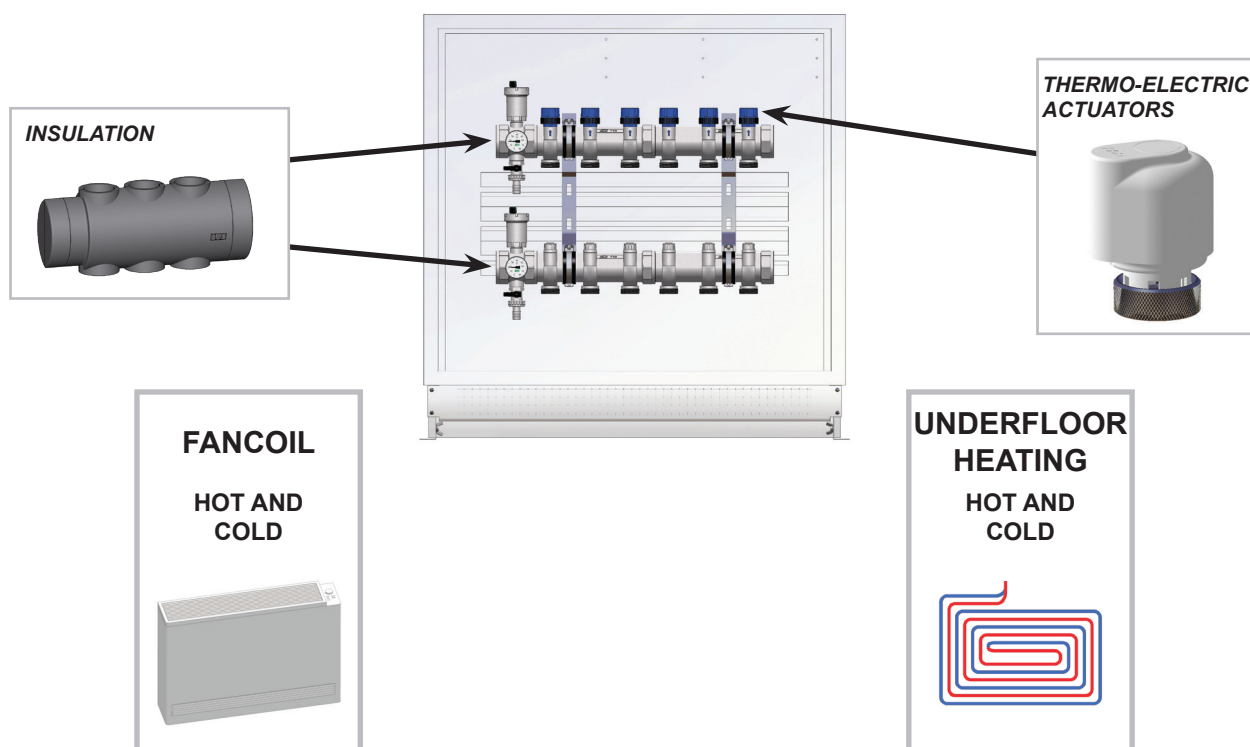
MODULATING/REGULATING UNITS

The modulating/regulating unit allows to have fan coils or underfloor heating and/or cooling system. The modulating mixing group is equipped with a 3-point mixing valve and a dedicated pump which has to be connected to an electronic control unit. The system can be divided in different areas by installing thermo-electric actuators on each manifold outlet. Insulation shells to cover the manifolds are available, if needed.



1"1/2 THERMO-ELECTRIC MANIFOLDS

These large size manifolds have been designed for industrial applications in case of heating and/or cooling systems. They are suitable to connect fan coils or underfloor systems. The system can be divided in different areas by installing thermo-electric actuators on each manifold outlet. Insulation shells to cover the manifolds are available, if needed.



2 wired thermo-electric actuator provided with selector. Suitable for installation on thermostatic valves and manifolds.

- Chrome-plated ring with M30x1,5 thread
- Connecting cable length: 75 cm
- Protection level: IP54



- NC = NORMALLY CLOSED
- NA = NORMALLY OPEN

N.B. For installation on thermostatic valves use the chrome-plated adapter, art. 1941.

ART. 1909-1919-1929-1939

Code	voltage	opening time	type	€	box	pack
1909	24 V	180 s	NC		1	100
1919	230 V	180 s	NC		1	100
1929	24 V	180 s	NA		1	100
1939	230 V	180 s	NA		1	100

4 wired thermo-electric actuator with auxiliary micro-switch and selector. Suitable for installation on thermostatic valves and manifolds.

- Chrome-plated ring with M30x1,5 thread
- Connecting cable length: 75 cm
- Protection level: IP54



- NC = NORMALLY CLOSED

N.B. For installation on thermostatic valves use the chrome-plated adapter, art. 1941.

ART. 1914-1924-1913-1923

Code	voltage	opening time	type	€	box	pack
1914	24 V	180 s	NC		1	100
1924	230 V	180 s	NC		1	100
1913	24 V	90 s	NC		1	100
1923	230 V	90 s	NC		1	100

Electronic chrono-thermostat complete with weekly programmable clock and digital display.

- Battery operated (by two AA 1,5V alkaline batteries – not supplied)
- Operating mode: AUTO, COMFORT, ECONOMY and OFF / Frost protection
- Program range: 30 minutes
- Hot/Cold switch
- Wall assembly

ART. 7946

Code	€	box	pack
7946		1	-



Chrome-plated adapter suitable for installation of electric actuators on thermo-electric manifolds.

- M30x1,5 thread

ART. 1942

Code	€	box	pack
1942		1	-



Electronic thermostat for heating and cooling systems.

- Digital display and function keys
- Hot/Cold switch
- Operation: COMFORT, ECONOMY and OFF
- Supplied by two AAA 1,5 V batteries



ART. 7944

Code	€	box	pack
7944		1	-

Electronic chrono-thermostat, with weekly programming for the control of heating and air conditioning systems, with the possibility of remote control via SMS messages.

- Backlit display and function keys
- Weekly programming with three temperature levels
- 2 auxiliary alarm inputs (clean contacts)
- 1 relay auxiliary output (clean contacts) programmable by user
- Backup battery for programming data and clock / calendar maintenance
- Power reserve, to send a power failure message (BLACK-OUT)
- Power supply 230V-50Hz
- Suitable sims: GSM SIM, standard with the GSM 11.12 phase 2+ standard



ART. 7943

Code	€	box	pack
7943		1	-

Electromechanical room thermostat complete with steam sensor.

- Scale: 10÷30° C
- Differential: 0,8 K
- System of limitation and/or locking of T selector
- Protection level: IP20
- Electrical connection with two wires
- Current carrying capacity: 10(2,5)A 250V a.c.

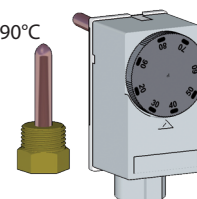
ART. 7948

Code	€	box	pack
7948		1	-



Immersion thermostat.

- Control temperature range: 10÷90°C
- Protection level: IP40
- Sheath: 1/2" (l=50mm)



ART. 7950

Code	€	box	pack
7950		1	-

Chrome-plated fitting with double connection.

- Interchangeable sizes for copper, plastic and multilayer pipe
- Sealing O-Ring in EDPM-P
- Suitable for plastic and multilayer pipes up to Ø14mm



ART. 3424



Code	size	€	box	pack
3424	24x19		5	-

Chrome-plated flowmeter.

- Measuring scale: 1-3,5 litres/min.
- Measuring scale: 2-8 litres/min.
- Interchangeable size for copper, plastic and multilayer pipes
- Suitable for installation on return manifolds

ART. 3429



Code	l/min	€	box
3429 4	1 - 3,5		12
3429 8	2-8		12



Chrome-plated temperature gauge fitting.

- Interchangeable size for copper, plastic and multilayer pipes
- Temperature gauge: 0÷80°C



ART. 3434



Code	€	box
3434		1

Chrome-plated revolving terminal connection suitable for manifolds with fixed setting differential by-pass valve.
Complete with chrome-plated air vent valve.

ART. 3420



Code	size	€	box
3420 1	1"		1
3420 114	1"1/4		1



Chrome-plated revolving terminal connection suitable for manifolds.



ART. 3421



Code	size	€	box
3421 1	1"		1
3421 114	1"1/4		1

Chrome-plated by-pass kit for manifolds, complete with revolving connections, fixed setting differential by-pass valve and air vent valve.



ART. 3422



Code	size	€	box
3422 1	1"		1
3422 114	1"1/4		1

Chrome-plated by-pass kit for manifolds, complete with revolving connections, fixed setting differential by-pass valve, chrome-plated pipe and air vent valve.



ART. 3423

Code	size	€	box
3423 1	1"		1
3423 114	1"1/4		1

Chrome-plated thermostatic mixer for underfloor heating systems.

- Control temperature range: 18÷55°C
- Side connections: 1" - 1"1/2 male
- Pump connection with 1"1/2 nut



ART. 3951

Code	size	€	box
3951 1	1"		1
3951 112	1"1/2		1

Anti-condensate protection shell made of thermo-formed expanded polyethylene for thermo-electric manifolds.

(Art. 3913-3923-3914-3915-3911-3921-3917-3918-3920-3972-3916-3973-3463-3464-3562-3465-3563-3970-3929-3971-3460-3461-3462-3560-3561-3927-3457-3458-3459)



ART. 9300

Code	outlets	size	€	box
9300 102	2	1"		1
9300 103	3	1"		1
9300 104	4	1"		1
9300 11402	2	1"1/4		1
9300 11403	3	1"1/4		1
9300 11202	2	1"1/2		1
9300 11203	3	1"1/2		1

Anti-condensate protection shell made of thermo-formed expanded polyethylene for intermediate connections (Art. 3438-3445).



ART. 9301

Code	size	€	box
9301 1	1"		1
9301 114	1"1/4		1
9301 112	1"1/2		1

End plug made of velcro for protection shell (ART. 9300) suitable for manifolds with built-in regulating valves (Art. 3923-3915-3921-3918).



ART. 9302

Code	outlets	size	€	box
9302 102	2	1"		1
9302 103	3	1"		1

1" THERMO-ELECTRIC MANIFOLDS

PORTS	PURCHASE CODES TO MAKE THE INSULATION
2	9300 102
3	9300 103
4	9300 104
5	9300 103 + 9300 102
6	(2x) 9300 103
7	9300 104 + 9300 103
8	(2x) 9300 104
9	(3x) 9300 103
10	(2x) 9300 104 + 9300 102
11	(2x) 9300 104 + 9300 103
12	(3x) 9300 104

1"1/4 THERMO-ELECTRIC MANIFOLDS

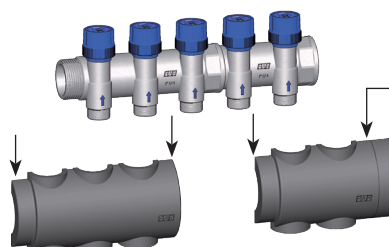
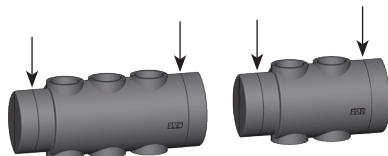
PORTS	PURCHASE CODES TO MAKE THE INSULATION
2	9300 11402
3	9300 11403
4	(2x) 9300 11402
5	9300 11403 + 9300 11402
6	(2x) 9300 11403
7	9300 11403 + (2x) 9300 11402
8	(2x) 9300 11403 + 9300 11402
9	(3x) 9300 11403
10	(2x) 9300 11403 + (2x) 9300 11402
11	(3x) 9300 11403 + 9300 11402
12	(4x) 9300 11403

1"1/2 THERMO-ELECTRIC MANIFOLDS

PORTS	PURCHASE CODES TO MAKE THE INSULATION
2	9300 11202
3	9300 11203
4	(2x) 9300 11202
5	9300 11203 + 9300 11202
6	(2x) 9300 11203
7	9300 11203 + (2x) 9300 11202
8	(2x) 9300 11203 + 9300 11202
9	(3x) 9300 11203
10	(2x) 9300 11203 + (2x) 9300 11202
11	(3x) 9300 11203 + 9300 11202
12	(4x) 9300 11203

The grooves on the anticondensation shells indicate the exact cut point in the event to join two or more shells to insulate the manifold.

In the case of a 5 port thermo-electric manifold, the cuts should be the following:



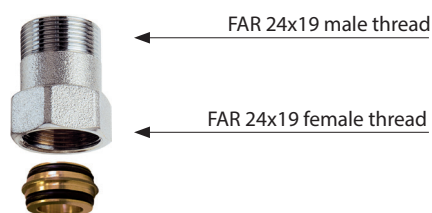
If at the end of the manifold a plug is placed, it is not necessary to cut the last part of the shell.



Make the cuts according to your system requirements!

Chrome-plated straight extension.

- interchangeable sizes for copper, plastic and multilayer pipe
- sealing metal gasket with double O-ring
- suitable on FAR 24x19 male connections with Ø16 mm only

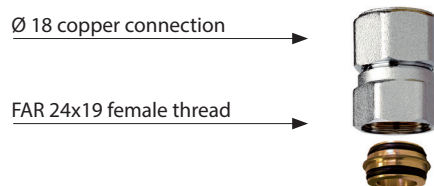


ART. 8850

Code	length/mm	€	box	pack
8850 30	30		25	250
8850 35	35		25	250
8850 40	40		25	250

Chrome-plated straight extension. Permits changing a FAR 24 x 19 male thread in a Ø 18 connection for copper pipe.

- sealing metal gasket with double O-ring
- suitable on FAR 24x19 male connections with Ø16 mm only

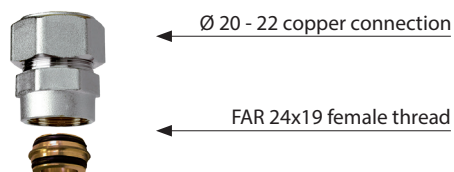


ART. 8850

Code	size	length/mm	€	box	pack
8850 G1830	24x19 - Ø18	30		25	250
8850 G1835	24x19 - Ø18	35		25	250
8850 G1840	24x19 - Ø18	40		25	250

Chrome-plated straight extension. Permits changing a FAR 24 x 19 male thread in a Ø 20-22 connection for copper pipe.

- sealing metal gasket with double O-ring
- suitable on FAR 24x19 male connections with Ø16 mm only

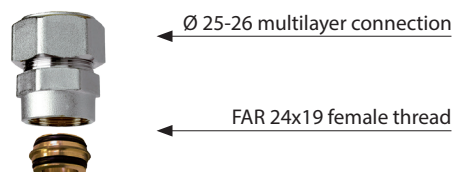


ART. 8850

Code	size	length/mm	€	box	pack
8850 G2030	24x19 - Ø 20	30		25	250
8850 G2230	24x19 - Ø 22	30		25	250

Chrome-plated straight extension. Permits changing a FAR 24 x 19 male thread in a Ø 25-26 connection for multilayer pipe.

- Ø 25-26 multilayer adapter
- sealing metal gasket with double O-ring
- suitable on FAR 24x19 male connections with Ø16 mm only

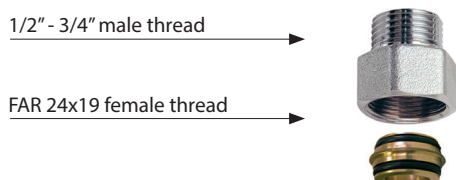


ART. 8854

Code	size	length/mm	€	box	pack
8854 25	24x19 - Ø 25x2,5	30		10	250
8854 26	24x19 - Ø 26x3	30		10	250

Chrome-plated reducer. Permits changing a FAR 24X19 male thread in a 1/2" - 3/4" male thread.

- sealing metal gasket with double O-ring
- suitable on FAR 24x19 male connections with Ø16 mm only

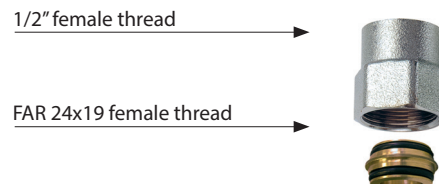


ART. 8865

Code	size	length/mm	€	box	pack
8865 3012	24x19 - 1/2" flat faced	30		25	250
8865 3034	24x19 - 3/4" flat faced	30		25	250
8865 3034EU	24x19 - 3/4" Eurokonus	30		25	250

Chrome-plated reducer. Permits changing a FAR 24X19 male thread in a 1/2" female thread.

- sealing metal gasket with double O-ring
- suitable on FAR 24x19 male connections with Ø16 mm only



ART. 8870

Code	size	length/mm	€	box	pack
8870 30	24x19 - 1/2"	30		25	250

Chrome-plated intermediate connection.

- Size: 3/4" - 1"-1 1/4" female-female
- Connections: 3/8" - 3/8" - 1/2"

**ART. 3430**

Code	size	€	box	pack
3430 34	3/4"		10	120
3430 1	1"		10	120
3430 114	1 1/4"		5	40

Chrome-plated intermediate connection.

- Size: 3/4" - 1" female-female
- Connections: 3/8" - 1/2"

**ART. 3430TC**

Code	size	€	box	pack
3430 34TC	3/4"		10	120
3430 1TC	1"		10	120

Chrome-plated intermediate FLANGED connection. Provided with screws and O-ring for connection.

- Size: 1" female-female
- Connections: 3/8" - 3/8" - 1/2"

**ART. 3441**

Code	size	€	box	pack
3441 1	1"x3/8"		10	80

Chrome-plated intermediate connection complete with air vent valve, temperature gauge and plug.

- Size: 3/4" - 1"-1 1/4" - 1 1/2" female-female
- Temperature gauge: 0÷80°C

ART. 3435

Code	size	€	box
3435 34	3/4"		1
3435 1	1"		1
3435 114	1 1/4"		1
3435 112	1 1/2"		1



Chrome-plated intermediate connection complete with air vent valve, thermo-manometer and plug.

- Size: 1"-1 1/4" - 1 1/2" female-female
- Thermo-manometer: 0÷4 bar - 0÷120°C

ART. 3436

Code	size	€	box
3436 1	1"		1
3436 114	1 1/4"		1
3436 112	1 1/2"		1



Chrome-plated intermediate connection complete with automatic air vent valve, temperature gauge and boiler drain cock.

- Size: 3/4" - 1"-1 1/4" - 1 1/2" female-female
- Temperature gauge: 0÷80°C

ART. 3438

Code	size	€	box
3438 34	3/4"		1
3438 1	1"		1
3438 114	1 1/4"		1
3438 112	1 1/2"		1



Chrome-plated intermediate connection complete with automatic air vent valve, thermo-manometer and boiler drain cock.

- Size: 1"-1 1/4" - 1 1/2" female-female
- Thermo-manometer: 0÷4 bar - 0÷120°C

ART. 3442

Code	size	€	box
3442 1	1"		1
3442 114	1 1/4"		1
3442 112	1 1/2"		1



Chrome-plated intermediate FLANGED connection, complete with automatic air vent valve, temperature gauge and plug.

- Provided with screws and O-ring for connection
- Size: 1" female-female
- Temperature gauge: 0÷80°C

ART. 3443

Code	size	€	box
3443 1	1"		1



Chrome-plated intermediate FLANGED connection complete with automatic air vent valve, thermo-manometer and plug.

- Provided with screws and O-ring for connection
- Size: 1" female-female
- Thermo-manometer: 0÷4 bar - 0÷120°C

ART. 3444

Code	size	€	box
3444 1	1"		1



Chrome-plated intermediate FLANGED connection complete with automatic air vent valve, temperature gauge and drain cock.

- Provided with screws and O-ring for connection
- Size: 1" female-female
- Temperature gauge: 0÷80°C

ART. 3445

Code	size	€	box
3445 1	1"		1



Chrome-plated intermediate FLANGED connection complete with automatic air vent valve, thermo-manometer and drain cock.

- Provided with screws and O-ring for connection
- Size: 1" female-female
- Thermo-manometer: 0÷4 bar - 0÷120°C

ART. 3446

Code	size	€	box
3446 1	1"		1



Chrome-plated temperature gauge fitting.

- Size: 1" male-female
- Side connection: 3/8" female



ART. 3431

Code	size	€	box
3431 1	1"		5

Chrome-plated intermediate connection for manifolds, preset for installation of air vent valve, temperature gauge and drain cock.

- Size: 1" male-female



ART. 3440

Code	size	€	box	pack
3440 1	1"		10	80

Chrome-plated temperature gauge fitting complete with temperature gauge.

- Size: 1" male-female
- Temperature gauge: 0÷80°C



ART. 3432

Code	size	€	box
3432 1	1"		1

Chrome-plated terminal connection for manifolds, complete with manual air vent valve and drain cock

- Connection: 3/4" - 1" - 1"1/4 - 1"1/2 female
- Outlets: 3/8" x 1/2" female

ART. 4070M

Code	size	outlets	€	box
4070 M3438	3/4"	3/8"x1/2"		1
4070 M138	1"	3/8"x1/2"		1
4070 M11438	1"1/4	3/8"x1/2"		1
4070 M11238	1"1/2	3/8"x1/2"		1



Chrome-plated terminal connection for manifolds, complete with automatic air vent valve and drain cock.

- Connection: 3/4" - 1" - 1"1/4 - 1"1/2 female
- Outlets: 3/8" x 1/2" female

ART. 4070

Code	size	outlets	€	box
4070 3438	3/4"	3/8"x1/2"		1
4070 138	1"	3/8"x1/2"		1
4070 11438	1"1/4	3/8"x1/2"		1
4070 11238	1"1/2	3/8"x1/2"		1



Chrome-plated terminal connection for manifolds, complete with manual air vent valve and drain cock.

- Connection: 3/4" - 1" - 1"1/4 - 1"1/2 male
- Outlets: 3/8" x 1/2" female

ART. 4071M

Code	size	outlets	€	box
4071 M3438	3/4"	3/8"x1/2"		1
4071 M138	1"	3/8"x1/2"		1
4071 M11438	1"1/4	3/8"x1/2"		1
4071 M11238	1"1/2	3/8"x1/2"		1



Chrome-plated terminal connection for manifolds, complete with automatic air vent valve and drain cock.

- Connection: 3/4" - 1" - 1"1/4 - 1"1/2 male
- Outlets: 3/8" x 1/2" female

ART. 4071

Code	size	outlets	€	box
4071 3438	3/4"	3/8"x1/2"		1
4071 138	1"	3/8"x1/2"		1
4071 11438	1"1/4	3/8"x1/2"		1
4071 11238	1"1/2	3/8"x1/2"		1



Chrome-plated terminal connection for manifolds. Double radial connection.

- Connection: 3/4" - 1" - 1"1/4 - 1"1/2 female
- Outlets: 1/2" x 1/2" female
3/8" x 1/2" female

ART. 4060

Code	size	outlets	€	box	pack
4060 3438	3/4"	3/8"x1/2"		25	250
4060 3412	3/4"	1/2"x1/2"		25	250
4060 138	1"	3/8"x1/2"		25	250
4060 112	1"	1/2"x1/2"		25	250
4060 11438	1"1/4	3/8"x1/2"		20	200
4060 11412	1"1/4	1/2"x1/2"		20	200
4060 11238	1"1/2	3/8"x1/2"		1	-
4060 11212	1"1/2	1/2"x1/2"		1	-



Chrome-plated terminal connection for manifolds. Double radial connection.

- Connection: 3/4" - 1" - 1"1/4 - 1"1/2 male
- Outlets: 1/2" x 1/2" female
3/8" x 1/2" female

ART. 4061

Code	size	outlets	€	box	pack
4061 3438	3/4"	3/8"x1/2"		25	250
4061 3412	3/4"	1/2"x1/2"		25	250
4061 138	1"	3/8"x1/2"		25	250
4061 112	1"	1/2"x1/2"		25	250
4061 11438	1"1/4	3/8"x1/2"		20	200
4061 11412	1"1/4	1/2"x1/2"		20	200
4061 11238	1"1/2	3/8"x1/2"		1	-
4061 11212	1"1/2	1/2"x1/2"		1	-



Chrome-plated boiler drain cock.

ART. 3439

Code	size	€	box
3439 12	1/2"		10



Brass boiler drain cock.

ART. 3447

Code	size	€	box
3447 12	1/2"		10



Chrome-plated straight terminal blanking reduction for modular manifolds complete with gasket.

- Connection: 3/4"-1" female
- Outlets: 1/4"-3/8"-1/2" female
- Connection: 1"1/4 female
- Outlets: 1/4"-3/8"-1/2" female

**ART. 4000**

Code	size	€	box	pack
4000 3414	3/4"x1/4"		30	300
4000 3438	3/4"x3/8"		30	300
4000 3412	3/4"x1/2"		30	300
4000 114	1"x1/4"		30	300
4000 138	1"x3/8"		30	300
4000 112	1"x1/2"		30	300
4000 11414	1"1/4x1/4"		25	250
4000 11438	1"1/4x3/8"		25	250
4000 11412	1"1/4x1/2"		25	250
4000 11434	1"1/4x3/4"		25	250

Chrome-plated blind cap complete with gasket.

- Body made of CW617N brass

**ART. 4100**

Code	size	€	box	pack
4100 12	1/2"		50	500
4100 34	3/4"		40	400
4100 1	1"		30	300
4100 114	1"1/4		30	300
4100 112	1"1/2		15	150
4100 2	2"		10	100

Chrome-plated angled terminal blanking reduction for modular manifolds.

- Connection: 3/4"-1"-1"1/4 female
- Outlets: 1/4"-3/8"-1/2" female

**ART. 4050**

Code	size	€	box	pack
4050 3414	3/4"x1/4"		30	240
4050 3438	3/4"x3/8"		30	240
4050 3412	3/4"x1/2"		30	240
4050 114	1"x1/4"		30	180
4050 138	1"x3/8"		30	180
4050 112	1"x1/2"		30	180
4050 11438	1"1/4x3/8"		30	180
4050 11412	1"1/4x1/2"		30	180

KIT for manifold outlets complete with chrome-plated nut.
(Adaptable to all interchangeable outlets).
Ø 18 outlets excluded.

**ART. 4250**

Code	size	€	box	pack
4250	24x19		50	400

Chrome-plated male plug for manifold outlets.

**ART. 4125**

Code	size	€	box	pack
4125 12	1/2"		30	-

Chrome-plated terminal blanking reduction with O-ring seal for manifolds with connection for air vent valve.

ART. 4200

Code	size	€	box	pack
4200 3414	3/4"x1/4"		25	250
4200 3438	3/4"x3/8"		25	250
4200 3412	3/4"x1/2"		25	250
4200 114	1"x1/4"		25	250
4200 138	1"x3/8"		25	250
4200 112	1"x1/2"		25	250
4200 134	1"x3/4"		25	250
4200 11412	1"1/4x1/2"		25	250
4200 11434	1"1/4x3/4"		25	250
4200 1141	1"1/4x1"		25	250
4200 1121	1"1/2x1"		10	100
4200 21	2"x1"		10	100

Chrome-plated terminal blanking plug with O-ring seal for manifolds.

ART. 4150

Code	size	€	box	pack
4150 34	3/4"		25	250
4150 1	1"		25	250
4150 114	1"1/4		25	250
4150 112	1"1/2		10	100
4150 2	2"		10	100



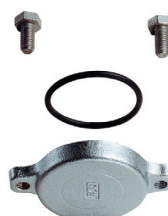
Chrome-plated connection for coplanar and flanged manifolds.
Interchangeable sizes for copper, plastic and multilayer pipe.

**ART. 4300**

Code	size	€	box	pack
4300 34	3/4"		25	200
4300 1	1"		25	200



End closing plug for flanged manifolds.

**ART. 4310**

Code	size	€	box
4310 1	1"		30

Kit for plastic pipes. Suitable for all our products with 24x19 interchangeable connection.

Complete with:

- adapter for plastic pipe
- brass ring
- chrome-plated nut with 24x19 thread



ART. 6052



Code	pipe	Ø external diameter	€	box	pack
6052 95147	plastic	10,5x1,25		50	250
6052 48186	plastic	12x2,15		50	250
6052 4847	plastic	12x2		50	250
6052 48184	plastic	12x1,5		50	250
6052 481005	plastic	12x1,35		50	250
6052 9761005	plastic	12,7x1,7		50	250
6052 976186	plastic	12,7x2,4		50	250
6052 6563	plastic	14x1,5		50	250
6052 6545	plastic	14x2		50	250
6052 4645	plastic	15x2,5		50	250
6052 4663	plastic	15x2		50	250
6052 46173	plastic	15x1,7		50	250
6052 4661	plastic	15x1,5		50	250
6052 5863	plastic	16x2,5		50	250
6052 58173	plastic	16x2,2		50	250
6052 5861	plastic	16x2		50	250
6052 58262	plastic	16x1,8		50	250
6052 5864	plastic	16x1,5		50	250
6052 58180	plastic	16x2,7		50	250
6052 15061	plastic	16,8x2,4		50	250
6052 150829	plastic	17x2,25		50	250
6052 15043	plastic	17x2		50	250
6052 6043	plastic	17,8x2,4		50	250
6052 60180	plastic	17,8x3,6		50	250
6052 4443	plastic	18x2,5		50	250
6052 44221	plastic	18x2,2		50	250
6052 4468	plastic	18x2		50	250
6052 8043	plastic	20x3,5		50	250
6052 8068	plastic	20x3		50	250
6052 80185	plastic	20x2,8		50	250
6052 80222	plastic	20x2,3		50	250
6052 8069	plastic	20x2,15		50	250
6052 80214	plastic	20x2		50	250
6052 80261	plastic	20x1,9		50	250

Kit for MULTILAYER pipes. Suitable for all our products with 24x19 interchangeable connection.

Complete with:

- adapter for multilayer pipe
- brass ring
- chrome-plated nut with 24x19 thread



ART. 6055



Code	pipe	Ø external diameter	€	box	pack
6055 902901	multilayer	11,6x1,5		50	250
6055 481156	multilayer	12x1,6		50	250
6055 48901	multilayer	12x1,8		50	250
6055 65193	multilayer	14x2		50	250
6055 46193	multilayer	15x2,5		50	250
6055 58190	multilayer	16x2		50	250
6055 58200	multilayer	16x2,25		50	250
6055 58278	multilayer	16,2x2,6		50	250
6055 150200	multilayer	16,8x2,5		50	250
6055 150810	multilayer	17x2		50	250
6055 44191	multilayer	18x2		50	250
6055 80204	multilayer	20x2		50	250
6055 80192	multilayer	20x2,25		50	250
6055 80201	multilayer	20x2,5		50	250
6055 80191	multilayer	20x2,9		50	250

Sealing compression KIT in rubber for copper pipe.

Complete with:

- brass pipe guide washer
- rubber compression single-taper
- brass ring
- chrome-plated nut with 24x19 thread



ART. 8427



Code	pipe	size	€	box	pack
8427 10	copper	Ø 10		100	500
8427 12	copper	Ø 12		100	500
8427 14	copper	Ø 14		100	500

Sealing compression KIT in rubber for copper pipe.

Complete with:

- rubber compression single-taper
- brass ring
- chrome-plated nut with 24x19 thread



ART. 8429



Code	pipe	size	€	box	pack
8429 15	copper	Ø 15		100	500
8429 16	copper	Ø 16		100	500

