

# Simple manifold Assembled with interception Valves - 210-213-214

## Function

Art.210-213-214 simple manifolds are generally used for the distribution of heat transfer fluid in air conditioning and sanitary systems. Provided with side mounts, it allows connection to copper, plastic and multilayer pipe fittings.

Art.210 is equipped with O-Ring double sealing valves on each branch. They allow you to shut down the connected users directly from the inspection box to perform any maintenance or replacement work.

When installed in distribution boxes, the front position of the knob provides easy access and a good handling convenience



210



213-214

## Product range

ART.	HEAD CONNECTION SIZE	NR. SIDE CONNECTION	SIDE CONNECTION SIZE	CODE
213	3/4	2x2	24x1,5	87213PA05
213	3/4	2x2	24x1,5	87213PA06
214	3/4	2x2	1/2"	87214PA05
214	3/4	2x2	1/2"	87214PA06
210	3/4	2x2	1/2"	87210PA05

CODE M24x1,5

CODE 3/4" EUROCONUS

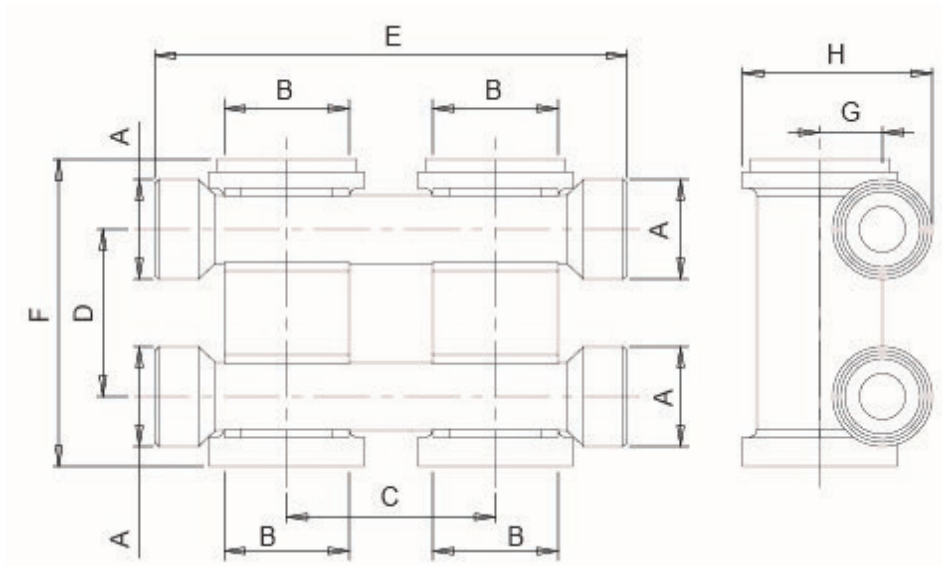
CODE 1/2"

## Technical features

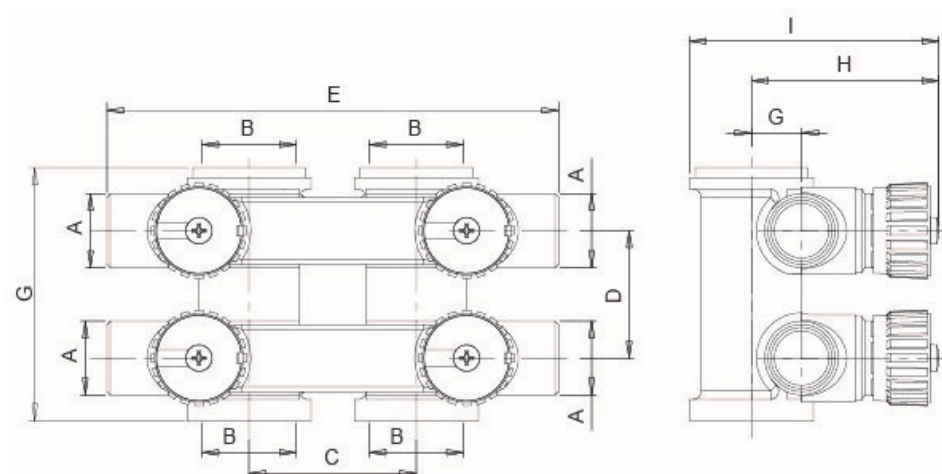
Body:	Brass CW617N UNI EN 12165 Brass CB753S UNI EN 1982
Nut:	Brass CW617N UNI EN 12165
Valve:	Brass CW617N UNI EN 12165
Rod:	Brass CW617N UNI EN 12165
Seeger:	Phosphorous Bronze
Shutter:	EPDM
O-Ring:	EPDM
Knob:	ABS
Indicator disks:	Aluminium
Fluids:	Water, glycol solutions
Maximum percentage of glycol:	30%
Max working pressure:	10 bar
Temperature range:	5÷100°C
Main Connections:	3/4"
Cable connections:	24x1.5 – 1/2"
Interaxis outlets:	37.5 mm
Main connection interaxis:	50 mm

# Simple manifold Assembled with interception Valves - 210-213-214

## / Dimensions



CODE	A	B	C	D	E	F	G	H
87213PA05	24x1,5	G3/4"	50	37,5	113	73,5	15	45,5
87213PA06	24x1,5	G3/4"	50	37,5	113	73,5	15	45,5
87214PA05	G1/2"	G3/4"	50	37,5	113	73,5	15	45,5
87214PA06	G1/2"	G3/4"	50	37,5	113	73,5	15	45,5



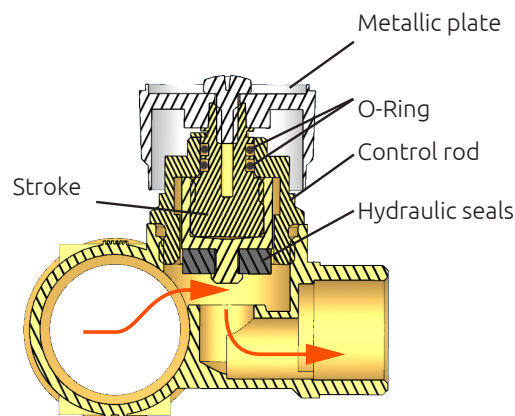
CODE	A	B	C	D	E	F	G	H	I
87210PA05	G1/2"	G3/4"	50	37,5	135	75,5	15	56	74,5

# Simple manifold Assembled with interception Valves - 210-213-214

## Manufacturing features

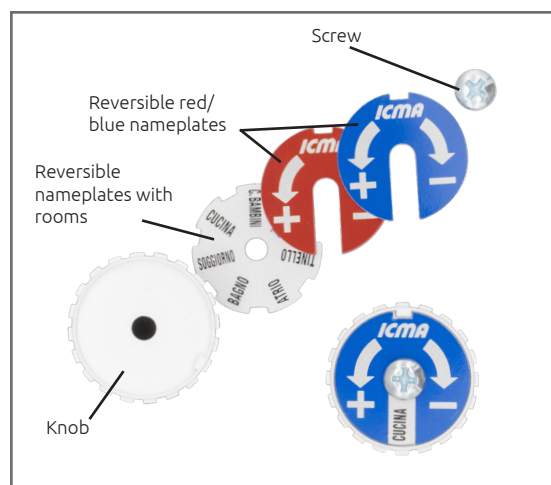
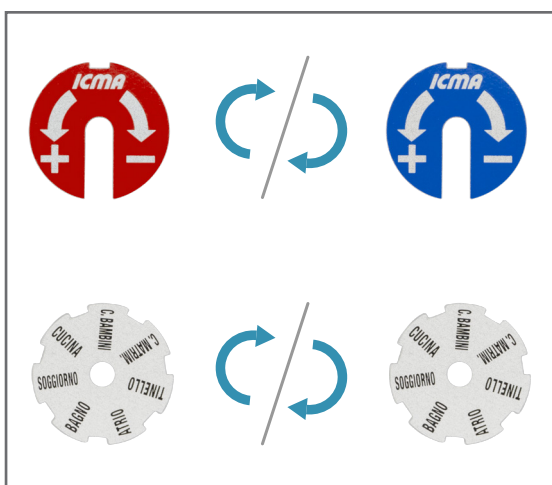
The Art.210 easy to assemble manifold feature a double O-ring seal between the screw and the wand. The presence of these O-rings guarantees a greater hydraulic fluid tightness inside the implant (see side-by-side illustration).

The assembly of the manifold must be carried out by connecting the main connection to the supply of the system, then with flow out of the lines. This avoids possible anomalies due to strong pressure swings or long periods of inactivity



## Identification label application

The package contains N.2 Area Identification Tunnels and N.2 Hot / Cold Water Identification Plates, respectively red / blue. Apply the nameplates as shown in the figure to the side.

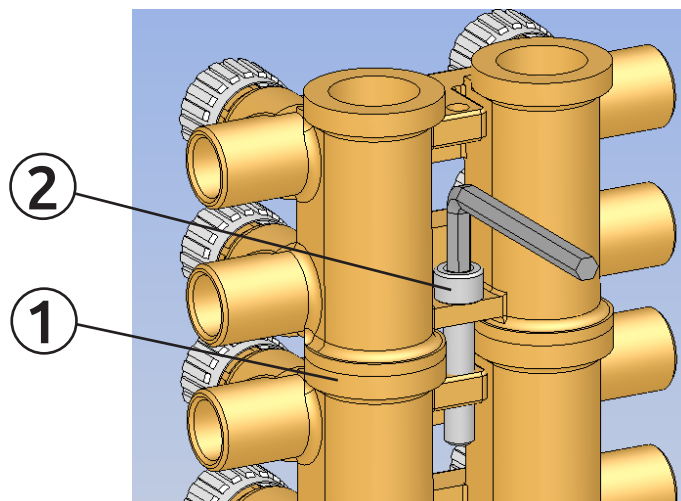


Application example

## Assembly

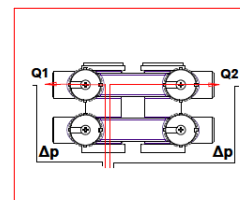
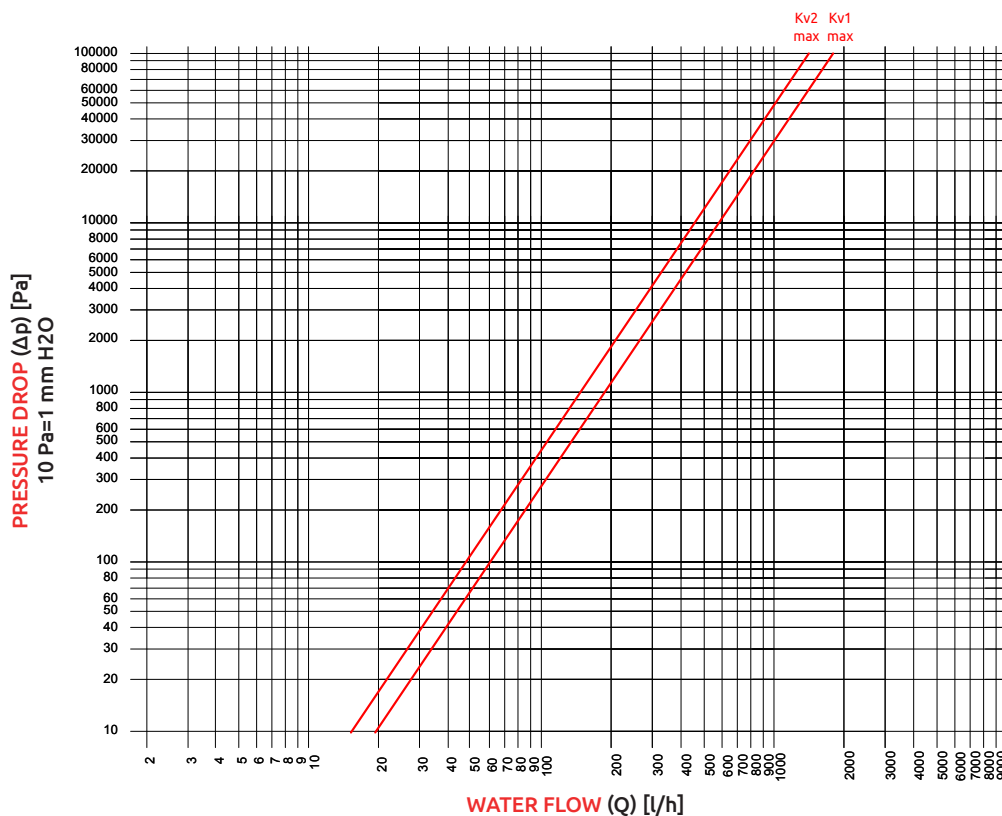
The manifolds are sold individually. In case you need to connect more than one in a single system assembly, please proceed as follows:

After placing the O-rings between the manifolds (1), insert the screw into the lower hole. Approach the manifold to another or to the pre-assembled assembly and screw it with an Allen wrench as shown in figure (2).



## Hydraulic characteristics

Distribution manifold Art. 210-211  
PRESSURE DROP DIAGRAM

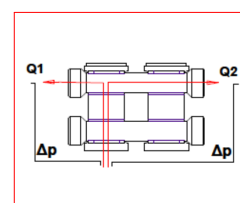
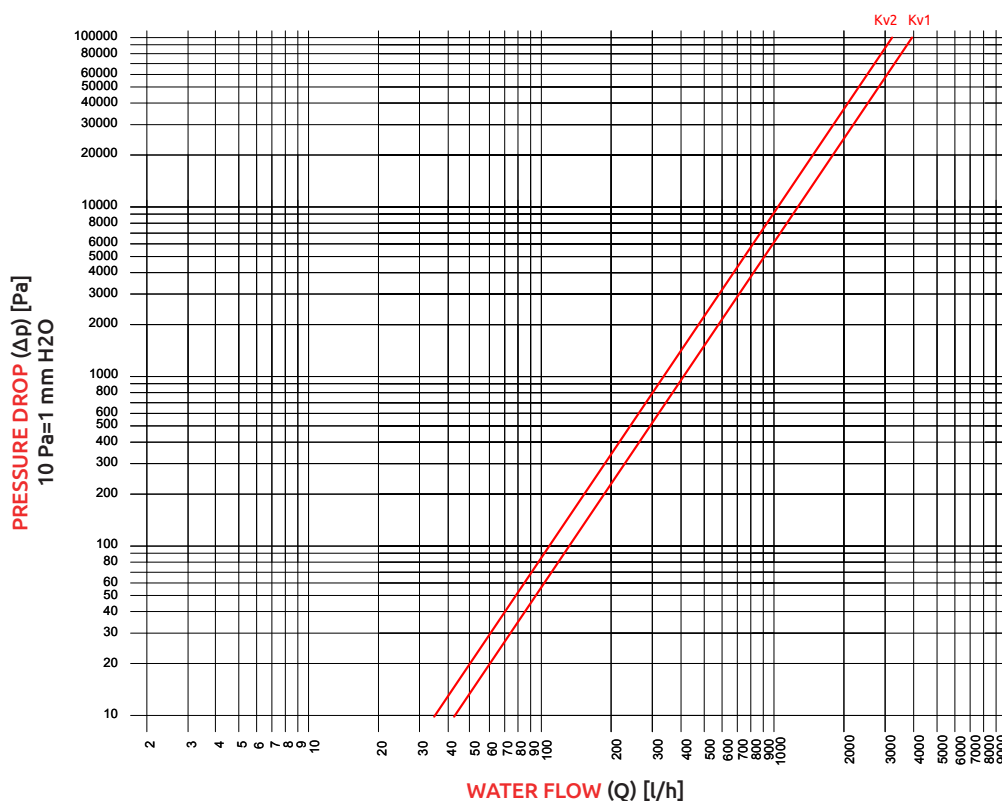


Opening turns*	Kv1 [m³/h]	Kv2 [m³/h]
0	0	0
1	0,35	0,25
2	1,40	1,18
3	1,78	1,48
max	1,88	1,52

\*values referred to a single outlet

$$Kv1 = \frac{Q1}{\sqrt{\Delta P}} \quad Kv2 = \frac{Q2}{\sqrt{\Delta P}}$$

Distribution manifold Art. 213-214  
PRESSURE DROP DIAGRAM

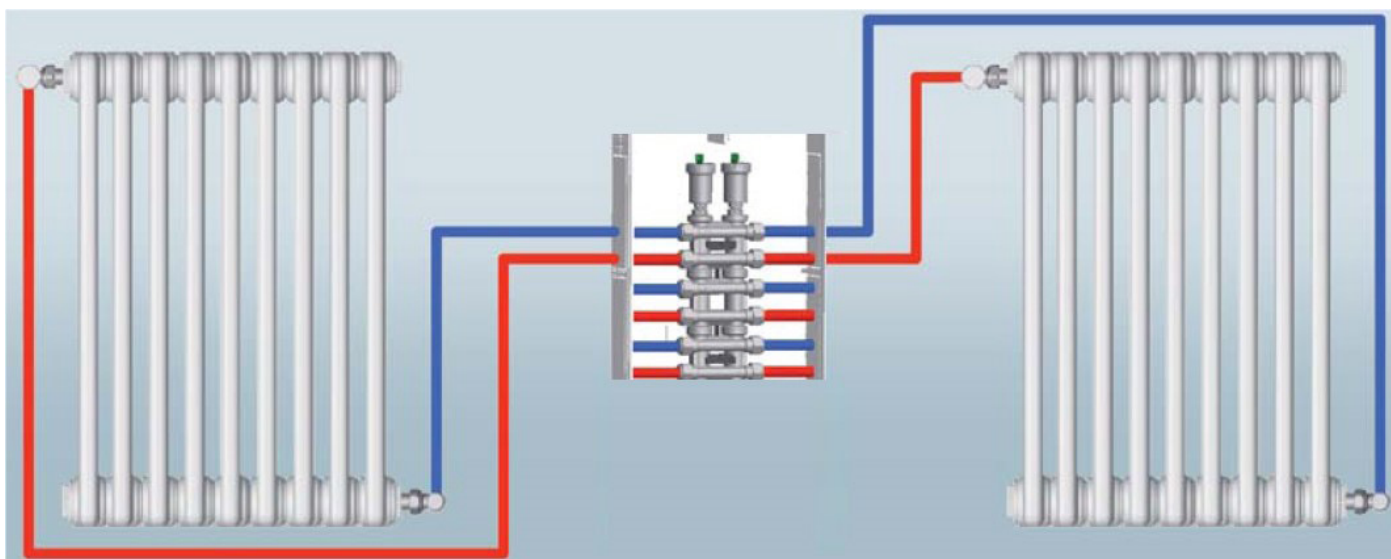


*Kv1 [m³/h]	Kv2 [m³/h]
4,04	3,56

\*values referred to a single outlet

$$Kv1 = \frac{Q1}{\sqrt{\Delta P}} \quad Kv2 = \frac{Q2}{\sqrt{\Delta P}}$$

## / Installation scheme



## / Safety



To maintain the good state of the interior components, during cleaning, no detergents containing solvents are required.

Read and follow the installation and commissioning instructions carefully before operating the unit to avoid accidents and system failures caused by improper use of the product. It is recalled that the warranty right is canceled if unauthorized modification or tampering occurs during the assembly and construction phase. Observe all safety warnings and in case of doubt regarding the use or modification of the parameters or functions, request assistance from qualified personnel.