

Simple, easy-to-assemble manifold
with shut-off valves
227-228-229

/ Function

The simple, modular manifolds (Art. 227-228-229) are generally used for distributing heat transfer fluid in air-conditioning and plumbing systems. Fitted with side connections, they allow connection to fittings for copper, plastic and multilayer pipes.

They are fitted with shut-off valves with double O-ring seals on each outlet. They allow connected appliances to be isolated directly from the inspection box for any maintenance or replacement work.

When installed in distribution boxes, the front position of the knob allows for easy access and convenient operation.



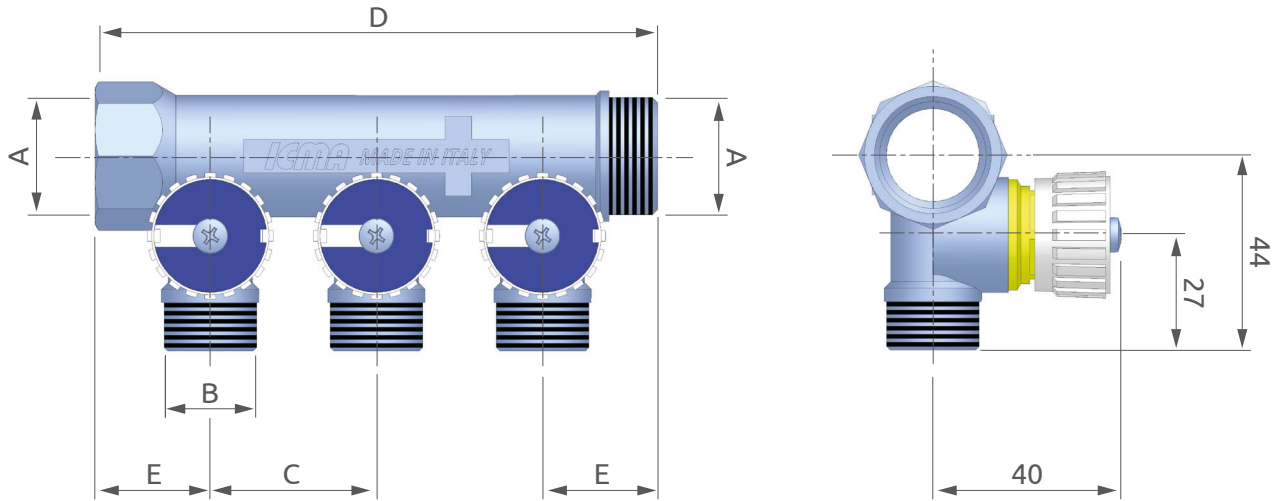
/ Product range

Art.	Description	Head connection size	N° of side connections	Side connection thread	Code
227	3/4"x2	G3/4"	2	G1/2"	87227PA06
227	3/4"x3	G3/4"	3	G1/2"	87227PB06
227	3/4"x4	G3/4"	4	G1/2"	87227PC06
227	1"x2	G1"	2	G1/2"	87227PG06
227	1"x3	G1"	3	G1/2"	87227PH06
227	1"x4	G1"	4	G1/2"	87227PJ06
228	3/4"x2	G3/4"	2	M24x1,5	87228PA06
228	3/4"x3	G3/4"	3	M24x1,5	87228PB06
228	3/4"x4	G3/4"	4	M24x1,5	87228PC06
228	1"x2	G1"	2	M24x1,5	87228PG06
228	1"x3	G1"	3	M24x1,5	87228PH06
228	1"x4	G1"	4	M24x1,5	87228PJ06
229	1"x2	G1"	2	G3/4"	87229PG06
229	1"x3	G1"	3	G3/4"	87229PH06
229	1"x4	G1"	4	G3/4"	87229PJ06

/ Technical specifications

Body:	Brass CW617N UNI EN 12165	Labels:	Aluminium
Spindle:	Brass CW617N UNI EN 12164	• Languages:	Italian, Hungarian, Russian, Greek, Spanish, English, French
Valve seat:	Ottone CW617N UNI EN 12164	Operating fluids:	water, glycol solutions
Stem:	Ottone CW617N UNI EN 12164	Massima percentuale di glicole:	30%
Seeger:	Bronzo fosforoso	Pressione max di esercizio:	10 bar
Seat:	EPDM	Temperature range:	5 ÷ 100 °C
O-Ring:	EPDM	Main connections:	3/4 " - 1"
Handwheel:	ABS	Branch connections:	24x1.5 - 1/2 " - 3/4"
		Branch centre distance:	37.5 - 50 mm

/ Dimensions



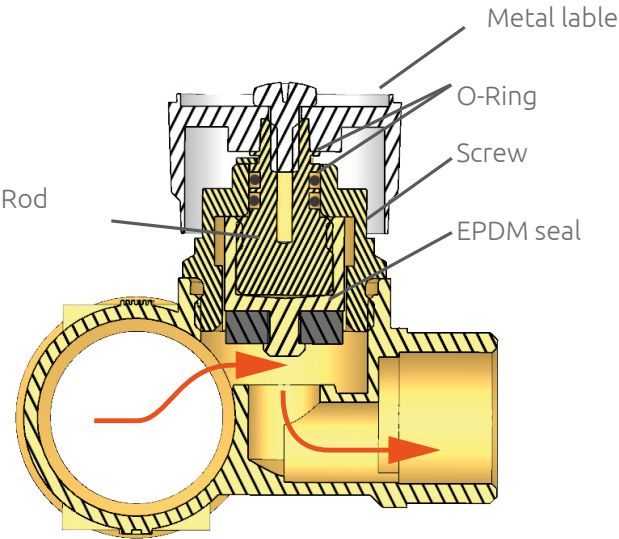
Art.	Code	A	N° Outlets	Outlets (B)	C	D	E
227	87227PA06	G3/4"	2	G1/2"	37,5	89,5	26
228	87228PA06	G3/4"	2	M24x1,5	37,5	89,5	26
227	87227PB06	G3/4"	3	G1/2"	37,5	127	26
228	87228PB06	G3/4"	3	M24x1,5	37,5	127	26
227	87227PC06	G3/4"	4	G1/2"	37,5	164,5	26
228	87228PC06	G3/4"	4	M24x1,5	37,5	164,5	26
227	87227PG06	G1"	2	G1/2"	50	112	31
228	87228PG06	G1"	2	M24x1,5	50	112	31
229	87229PG06	G1"	2	G3/4"	50	112	31
227	87227PH06	G1"	3	G1/2"	50	162	31
228	87228PH06	G1"	3	M24x1,5	50	162	31
229	87229PH06	G1"	3	G3/4"	50	162	31
227	87227PJ06	G1"	4	G1/2"	50	212	31
228	87228PJ06	G1"	4	M24X1,5	50	212	31
229	87229PJ06	G1"	4	G3/4"	50	212	31

/ Design features

The simple, modular manifolds (Items 227-228-229) feature a double O-ring seal between the screw and the rod. The presence of these O-rings ensures a better hydraulic seal for the fluid within the system (see image opposite).

The manifolds must be installed by connecting the main connection to the system's supply line, so that the flow exits via the outlets.

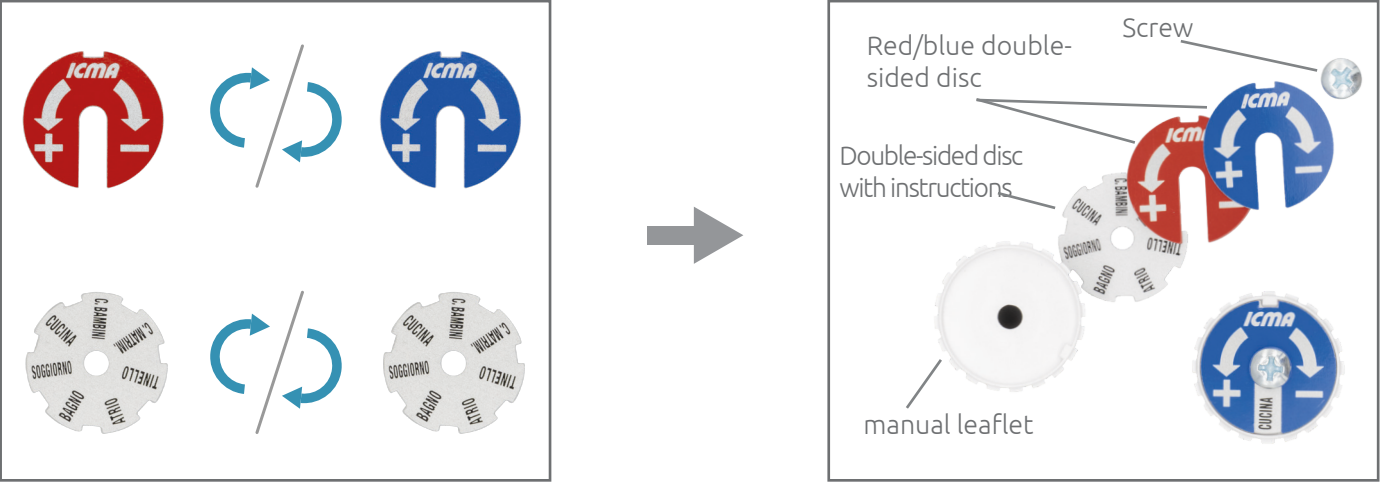
This prevents any faults caused by sudden pressure surges or long periods of disuse.



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/ Fitting the identification plates

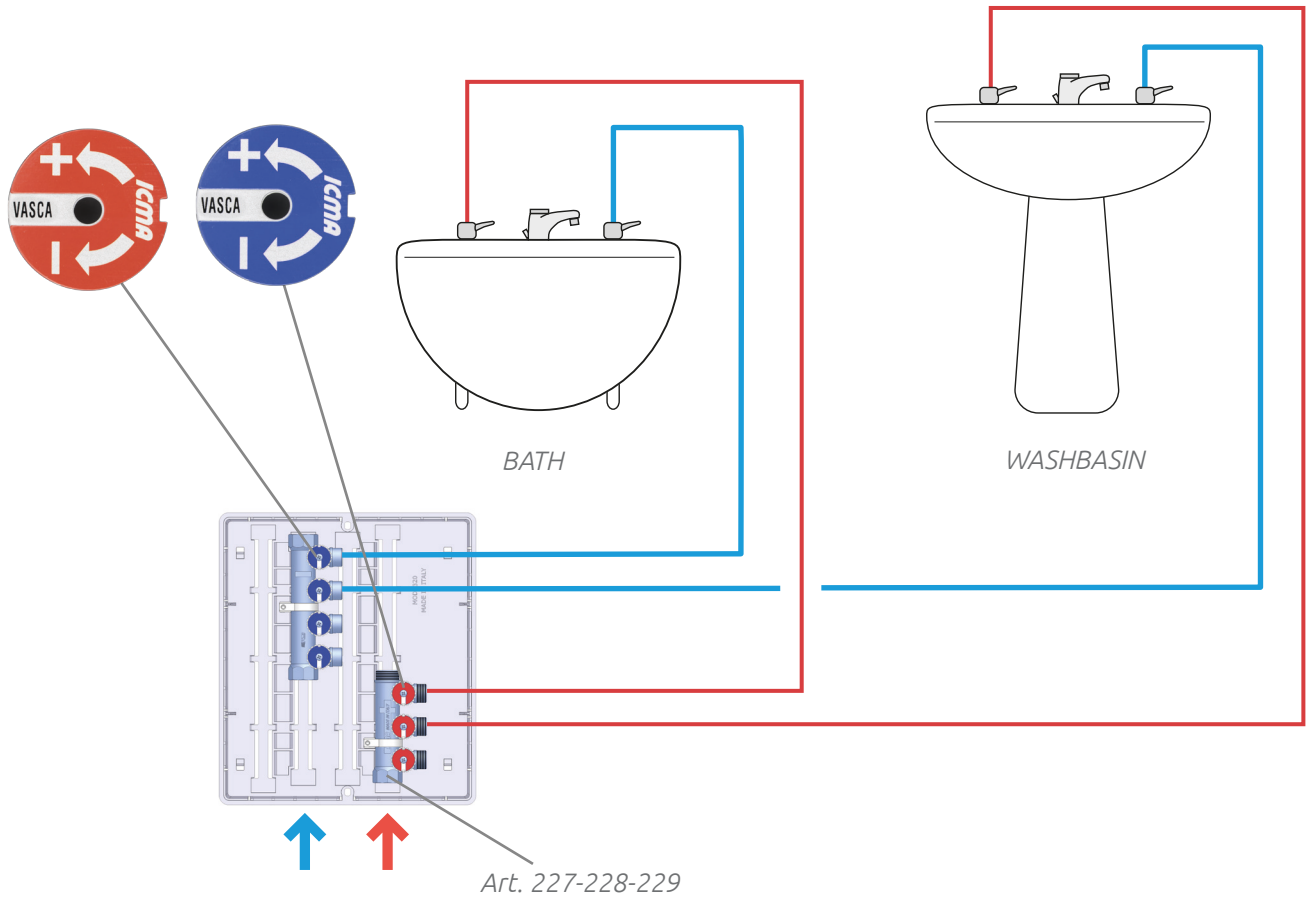
The pack contains 2 zone identification plates and 2 hot/cold water identification plates, coloured red and blue respectively. Fit the plates as shown in the diagram opposite



Application example

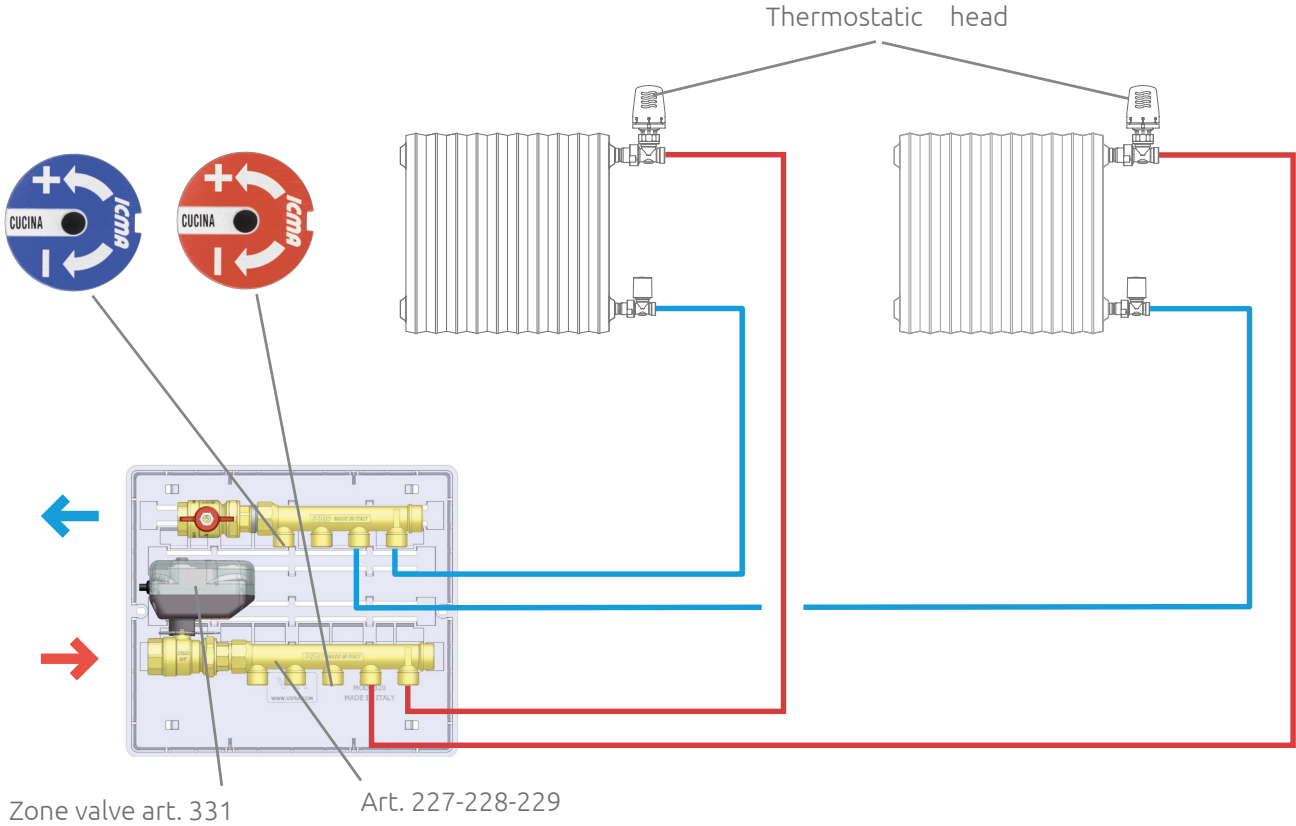
/ Installation diagram

Example of installation on a plumbing system



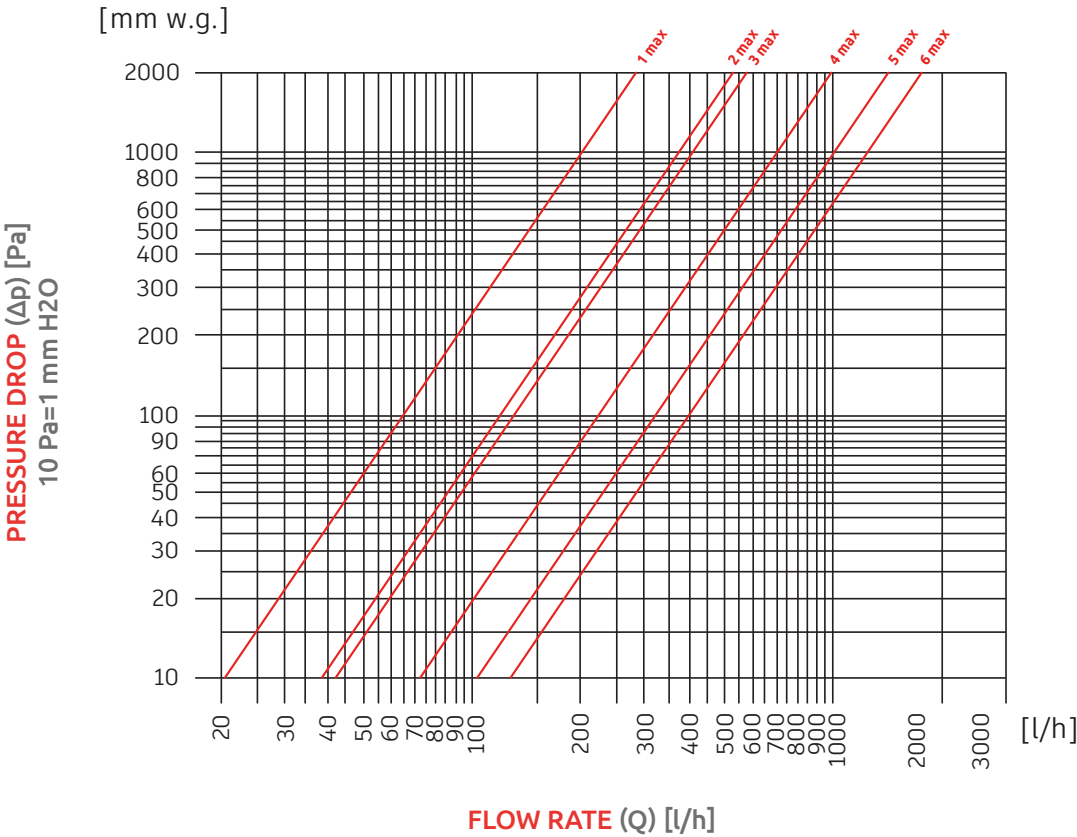
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Example of installation in a heating system



/ Pressure drops

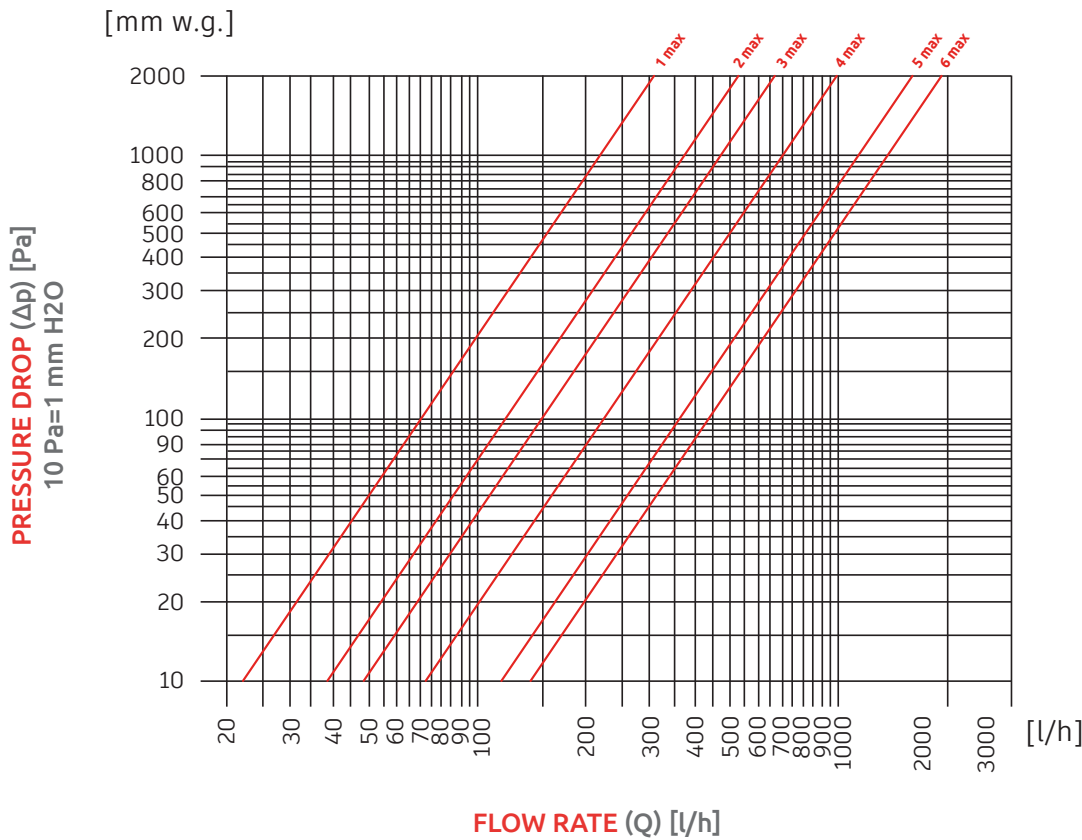
Single manifold Art. 227-228 - 3/4"
PRESSURE DROP DIAGRAM



N° circuits	Kv [m³/h]
1	0,65
2	1,20
3	1,30

N° outlets	Kv [m³/h]
1 max	1,30
2 max	2,20
3 max	3,20
4 max	4,00

Single manifold Art. 227-228-229 - 1"
PRESSURE DROP DIAGRAM



N° circuits	Kv [m³/h]
1	0,70
2	1,25
3	1,50

N° outlets	Kv [m³/h]
1 max	1,50
2 max	2,70
3 max	3,60
4 max	4,40

/ Safety

To ensure the internal components remain in good condition, do not use cleaning agents containing solvents when cleaning.

Read and follow the assembly and commissioning instructions carefully before operating the appliance in order to prevent accidents and system faults caused by improper use of the product.

Please note that the warranty will be void if unauthorised modifications or alterations are made during installation or construction.

Observe all safety warnings and, in case of doubt regarding the use or modification of parameters or functions, seek assistance from qualified personnel.