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Domestic water
manifolds ADM

NOTE!

The product may only be used if you have fully read and understood these operating instructions. The manual is also available on the AFRISO websites in the Internet.

WARNING!



Domestic water manifolds may only be installed, commissioned, and dismantled by trained personnel.

Changes and modifications carried out by unauthorised persons may cause danger and are prohibited for safety reasons.

Risk of scalding by hot medium! Perform all installation and maintenance work after the system has cooled down.

APPLICATION

Used in domestic water systems and installed in a wall-mounted cabinet. These units distribute cold and hot water to individual distribution points, allowing the water supply to a specific point to be shut off while maintaining flow in the rest of the system.

OPERATING

The manifold replaces the traditional T-piece system in domestic water distribution. Its main advantage is the reduced number of connections, minimizing the risk of leaks in hard-to-reach areas (e.g., under the floor). Additionally, when water is drawn from multiple points simultaneously, a manifold system results in a lower pressure drop compared to a T-piece system.

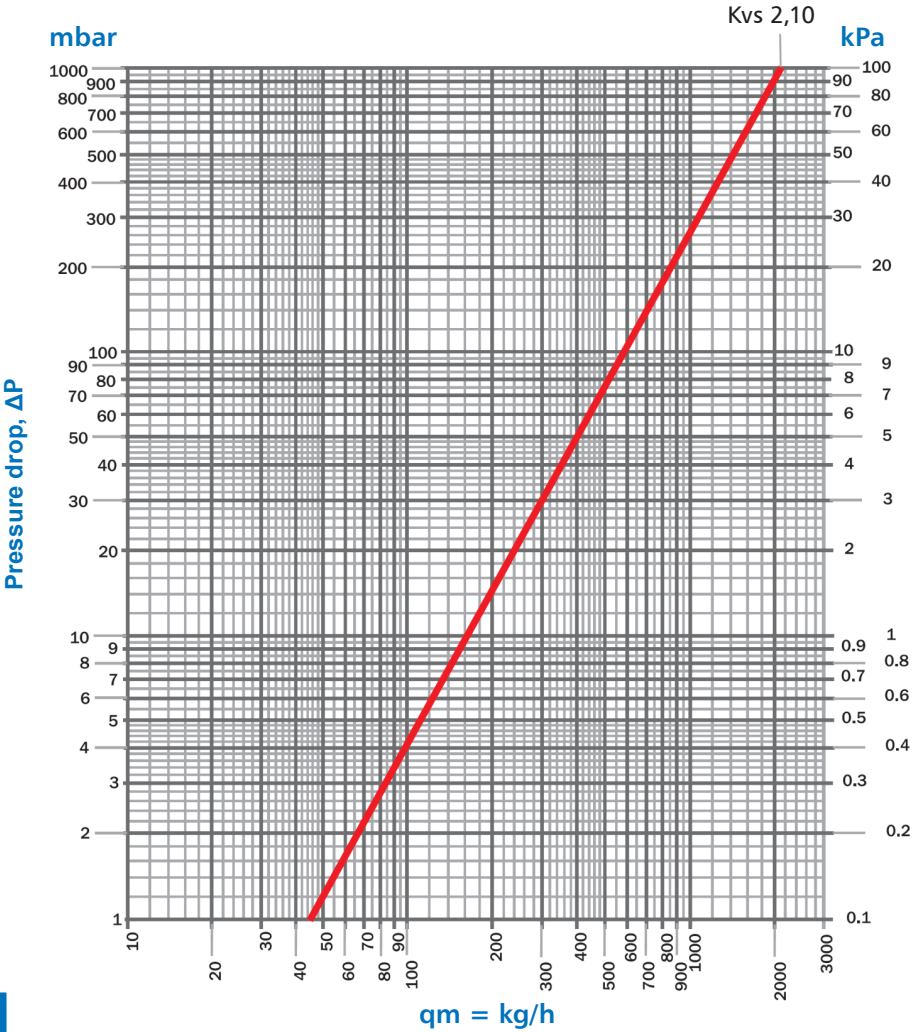
The manifolds are made of brass with an additional nickel-plated coating for enhanced protection against external corrosion. The base kit includes all essential components, such as two bars for connecting three hot and cold water points, shut-off valves, and plugs with internal and external threads.

To expand the number of distribution points, additional extension modules with 2, 3, or 4 distribution points can be purchased separately. The manifold can also be installed in a plastic cabinet, which is available as an optional accessory.

CONSTRUCTION



FLOW DIAGRAM



1

2

DIMENSIONS [mm]

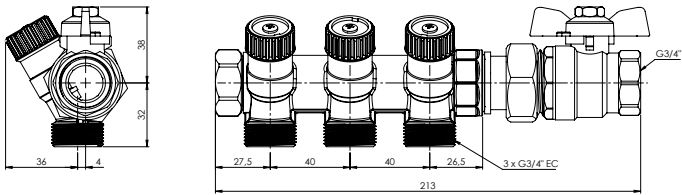


Fig. 1. Dimensions of the ADM 203 basic kit

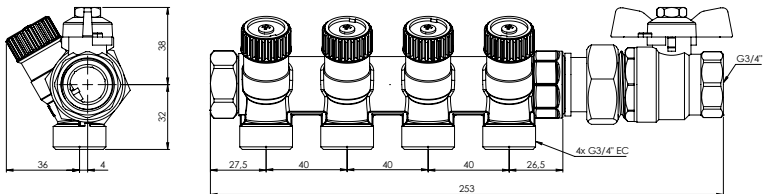


Fig. 2. Dimensions of the ADM 204 basic kit

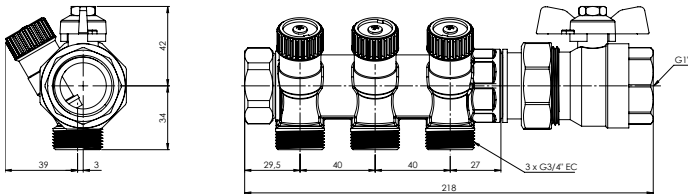


Fig. 3. Dimensions of the ADM 213 basic kit

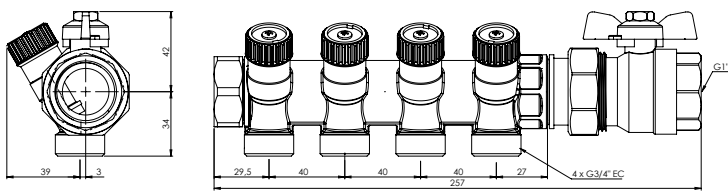


Fig. 4. Dimensions of the ADM 214 basic kit

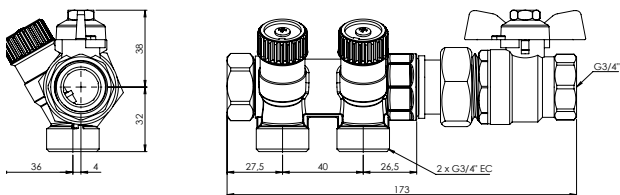


Fig. 5. Dimensions of the ADM 402 DHW circulation module

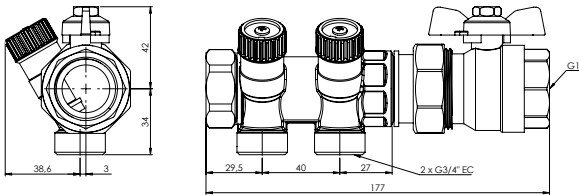
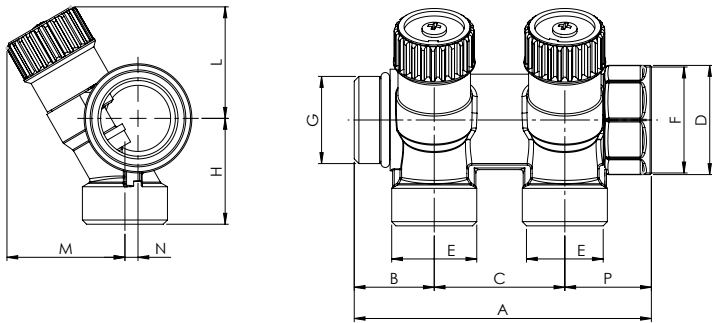
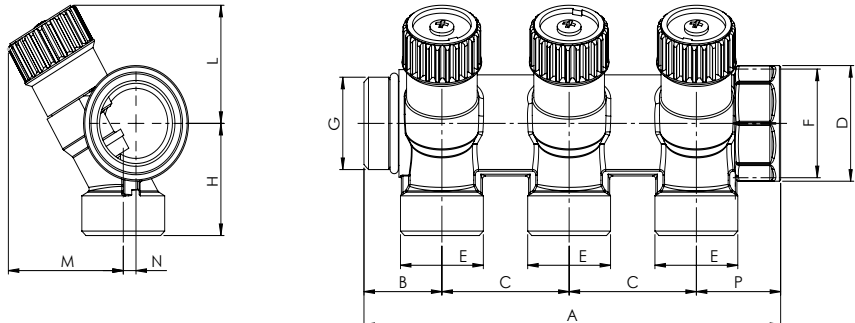


Fig. 6. Dimensions of the ADM 412 DHW circulation module

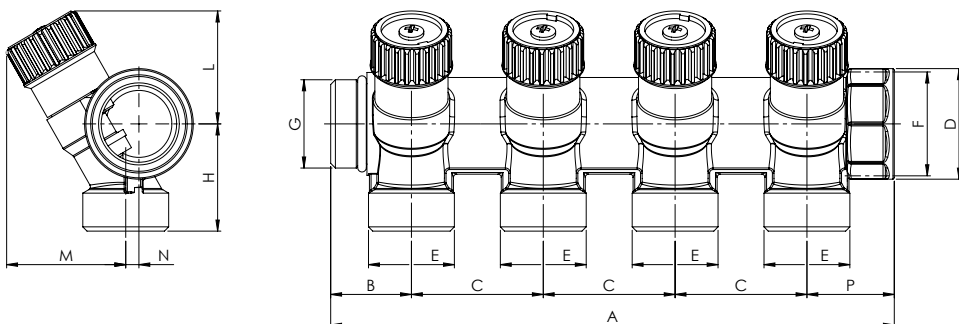
DIMENSIONS OF EXTENSION MODULES [mm]



Model	Size	A	B	C	D	E	F	G	H	L	M	N	P
22 102 00	G ³ / ₄ " x G ³ / ₄ " EC	91,5	25	40	31	G ³ / ₄ " EC	G ³ / ₄ "	G ³ / ₄ "	32	34	36	4	26,5
22 112 00	G1" x G ³ / ₄ " EC	91	24,5	40	38	G ³ / ₄ " EC	G1"	G1"	34	36	40	3	26,5



Model	Size	A	B	C	D	E	F	G	H	L	M	N	P
22 103 00	G ³ / ₄ " x G ³ / ₄ " EC	113,5	25	40	31	G ³ / ₄ " EC	G ³ / ₄ "	G ³ / ₄ "	32	34	36	4	26,5
22 113 00	G1" x G ³ / ₄ " EC	131	24,5	40	38	G ³ / ₄ " EC	G1"	G1"	34	36	40	3	26,5



Model	Size	A	B	C	D	E	F	G	H	L	M	N	P
22 104 00	G ³ / ₄ " x G ³ / ₄ " EC	171,5	25	40	31	G ³ / ₄ " EC	G ³ / ₄ "	G ³ / ₄ "	32	34	36	4	26,5
22 114 00	G1" x G ³ / ₄ " EC	171	24,5	40	38	G ³ / ₄ " EC	G1"	G1"	34	36	40	3	26,5

MOUNTING

The ADM water manifold should be installed indoors in a frost-free room. The installation site must provide easy access to the manifold for maintenance. Before installation, the system should be thoroughly flushed to remove any residues from soldering, pipe cutting, or other contaminants. To protect system components from dirt, it is recommended to install a mesh filter (e.g., AFRISO AWF) in the domestic water system.

Before installation, determine the side from which the manifold will be supplied. The shut-off valves included in the basic kit scope of delivery must be installed on its inlet connections. Pay attention to the colour of the valve knobs: the valve with the red knob is intended for the hot water distribution beam, while the valve with the blue knob is for the cold water distribution beam. The end of the manifold must be sealed with an appropriate plug. The delivery kit includes plugs with both internal and external threads.

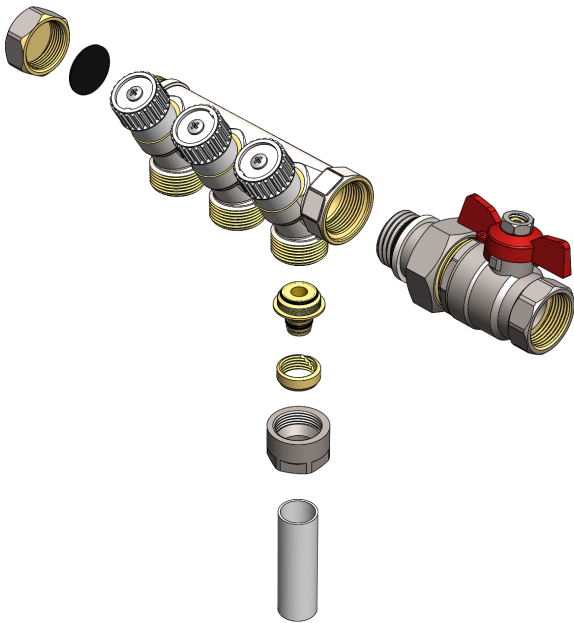


Fig. 5. Conceptual diagram of the hot water manifold beam installation with the main connection on the right side

The white knobs of the shut-off valves for individual consumption loops can be labeled with identification stickers indicating the type of distribution point. The stickers are included in the base kit of the ADM water manifold.

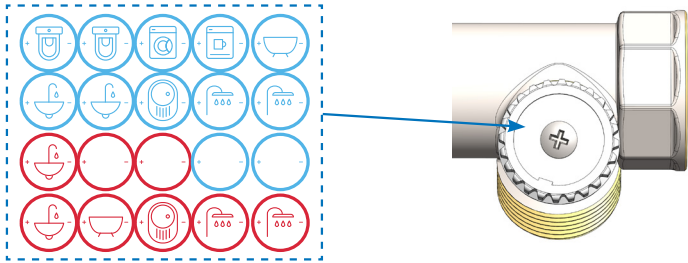


Fig. 6. Stickers for marking water outlets: red for hot water and blue for cold water

The design of the beams allows them to be connected without the use of tools or sealant. The connection between the beams is self-centring (all the connections of the distribution points are in line) and self-sealing.

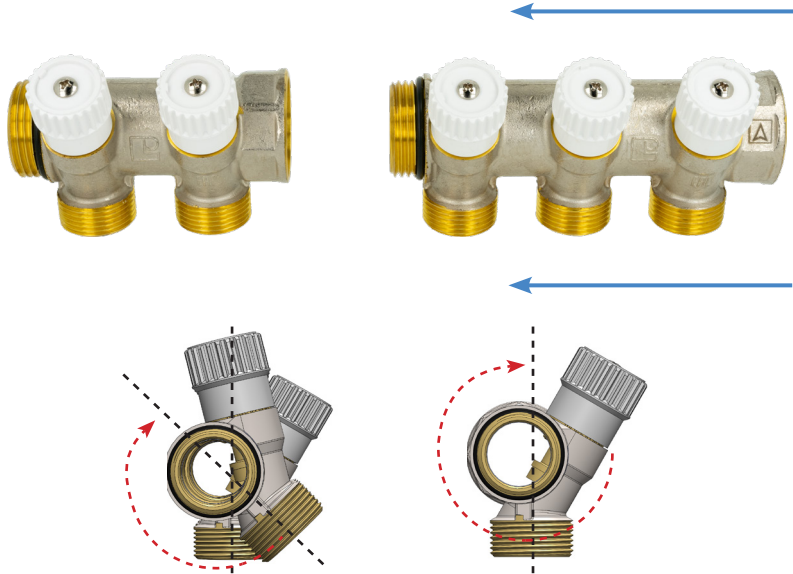
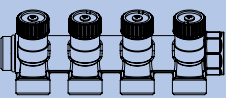


Fig. 8. Schematic diagram of connecting a beam from the base kit with an extension module

CABINETS AND HOLDERS

The manifold can be installed in a dedicated plastic cabinet, which provides protection against external factors and improves aesthetics. Cabinets are not included in the base kit and must be ordered separately. Cabinets should be selected based on the maximum number of distribution points used, according to the table below.

The cabinet has all the necessary clamps and handles.

Art. No.		
22 300 00	290 x 330 x 88 mm	max. 4
22 301 00	310 x 430 x 88 mm	max. 6
22 302 00	330 x 530 x 88 mm	max. 8
22 303 00	330 x 625 x 88 mm	max. 10

If you do not wish to install the ADM manifold in a plastic cabinet, you can use a set of steel holders to mount the beams on the wall. The holders should be selected according to the diameter of the beams used.

Art. No.	Diameter
22 310 00	3/4"
22 311 00	1"

To shut off the flow to a specific distribution point, turn the knob clockwise. To open the flow, turn the knob counterclockwise. Shut-off valves are not designed to regulate the flow of the medium; they should remain fully open during normal operation.

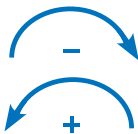


Fig. 7. Direction of opening/closing the shut-off valve at the distribution point. The + and – symbols are also marked on the stickers identifying the distribution points

MODULES FOR THE DHW CIRCULATION

To connect the DHW circulation to several distribution points, use the ADM module for DHW circulation. The components of the set allow the return to be connected to the DHW tank on both the left and right sides. If more than two circulation points are used, extension modules should be used (see the „Extension modules” section).

Art. No.	Number of distribution points	Main connection
22 402 00	2	G3/4"
22 412 00		G1"

EXTENSION MODULES

The base kits are factory-equipped with two beams, to which 3 (ADM 203 and ADM 213) or 4 (ADM 204 and ADM 214) distribution points can be connected. If additional distribution points are needed, the existing manifold can be retrofitted with the appropriate individual extension modules. Extension modules for manifolds with two, three, or four distribution points are available.

The selection table is shown below.

Art. No.	Number of distribution points	Main connection
22 102 00	2	G3/4"
22 103 00	3	
22 104 00	4	
22 112 00	2	G1"
22 113 00	3	
22 114 00	4	

5

6

7

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MAINTENANCE

The ADM water manifold is a fully automatic and maintenance-free device. It is only necessary to check the connections for leaks at regular intervals (at least once a year) and to visually inspect the manifold and its fittings.

TECHNICAL DATA

Parameter	Value / material	
Operating pressure	max. 10 bar	
Differential pressure	max. 10 bar	
Operating temperature	max. 120°C	
Main connections (depending on version)	ADM 102, ADM 103, ADM 104, ADM 203, ADM 204, ADM 402:	G3/4" on the left; G3/4" F on the right
	ADM 112, ADM 113, ADM 114, ADM 213, ADM 214, ADM 412:	G1" on the left; G1" F on the right
Distribution points connections	G3/4" eurocone	
Housing material	brass CW617N + brass CW614N	
Sealing material	EPDM	
Knob material	ABS	
Compatible media	water	

APPROVALS AND CERTIFICATES

The product is subject to the Pressure Directive 2014/68/EU and is not CE marked in accordance with Article 4.3 (recognised engineering practice). The product is hygienically certified by by the National Institute of Public Health NIH in Poland.

DECOMISSIONING, DISPOSAL

1. Dismount the product.
2. Dispose of the product according to local directives and guidelines.

The product is built from recyclable materials.

If you have any questions or problems with disposal, please contact the appropriate distributor or manufacturer's point.

WARRANTY

Product guarantee in accordance with the general conditions of sale and delivery.

CUSTOMER SATISFACTION

For AFRISO customer satisfaction is paramount. If you have any questions, suggestions or product problems, please contact us.