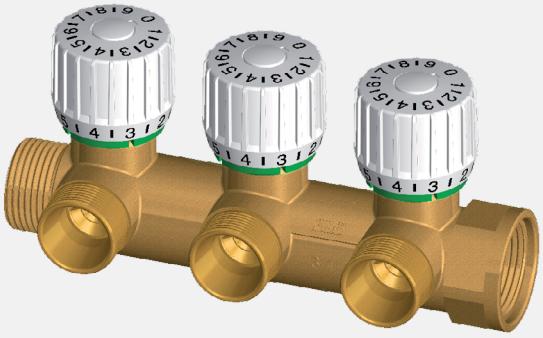
ART.3815



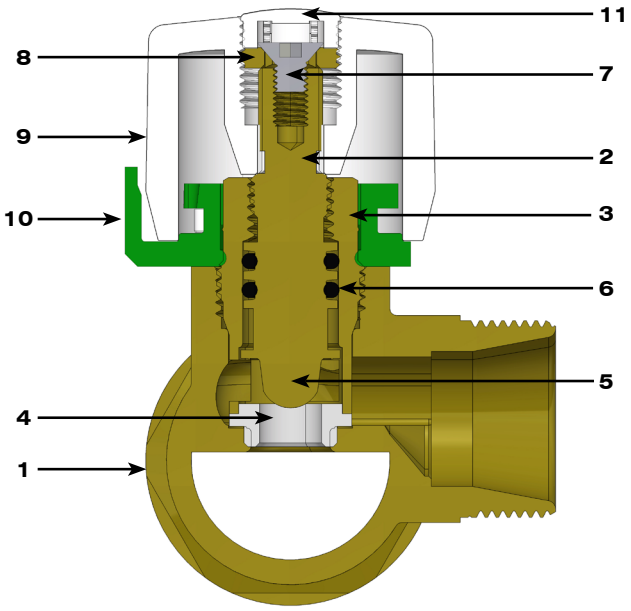
MULTIFAR - Brass modular manifold for both domestic services and heating systems. Complete with balancing lockshield valves.

- Body in CB752S brass
- Numbered regulating handle with anti-tamper guard
- Interchangeable sizes for copper, plastic and multilayer pipe.
- Side connections: 3/4" - 1" male-female
- Centre line between ports: 45 mm
- System for shutter stroke limitation and handle locking
- Patent Pending

1 DESCRIPTION

Manifolds with FAR balancing valve, art. 3815, allow the opening of the body to be adjusted for managing water flow in each derivation. On each handle there is a numbered scale from 0 to 9 and a ring with a fixed indicator for adjustment reference. Moreover, they are equipped with a device which allows the handle to be locked once the required position has been set.

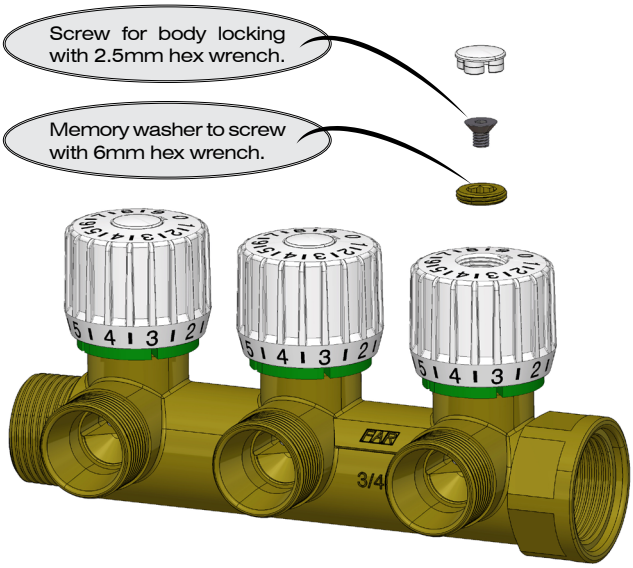
1.1 CONSTRUCTION DETAILS



1 - Body: CB753S brass
2 - Stem: CW614N brass
3 - Body: CW614N brass
4 - Location body: P.T.F.E.
5 - Shutter: CW614N brass
6 – Sealing O-ring: EPDM
7 - Screw for locking: AISI302 steel
8 – Memory washer: CW614N brass
9 - Handle: ABS®
10 - Reference ring: PA6
11 - Cap: ABS®

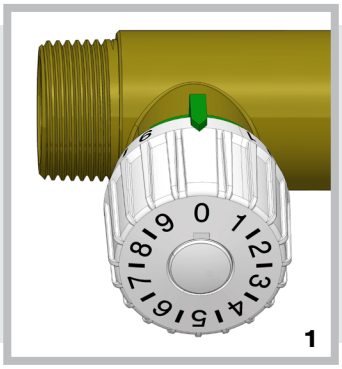
2 REGULATION

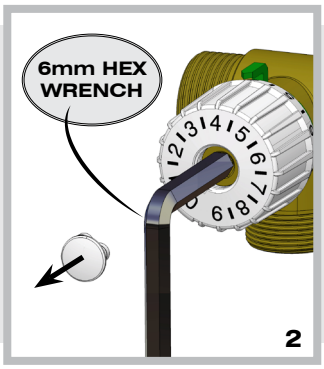
Depending on the design flow the handle is positioned in a way that guarantees the passage of the correct water flow to each derivation.



2.1 HANDLE LIMITATION

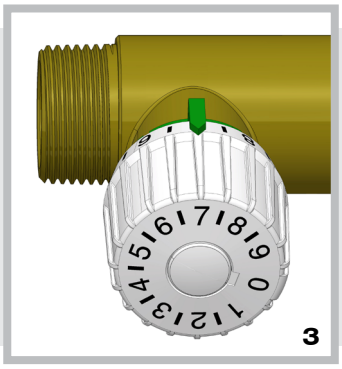
In order to limit the handle stroke, completely close the body carrying the handle on the position 0 (picture 1).
Then open the handle to the desired reference position and screw the memory washer as far as it will go with a 6mm hex wrench (picture 2).
For example, by screwing the washer in position 4, the handle retains freedom of movement between positions 0 and 4.

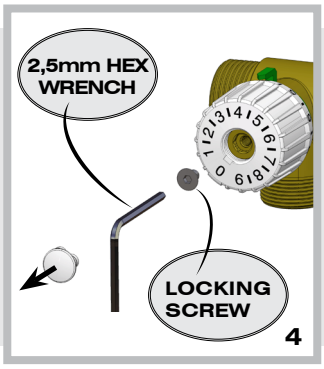


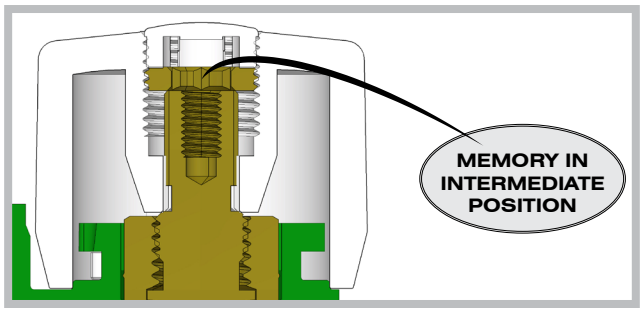


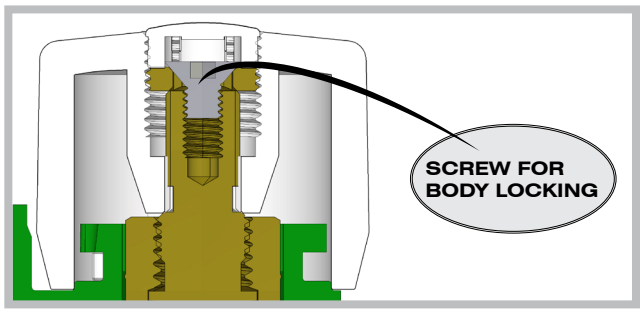
2.2 HANDLE LOCKING

For subsequent handle locking, preventing any body movement, place the handle on the desired value (picture 3), screw the lock washer with a 6mm hex wrench (picture 2) and tighten the locking screw with a 2.5 mm hex wrench (picture 4).
The fixing ensures the design flow for each derivation of the manifold is always guaranteed, thus avoiding tampering or calibration modifications.

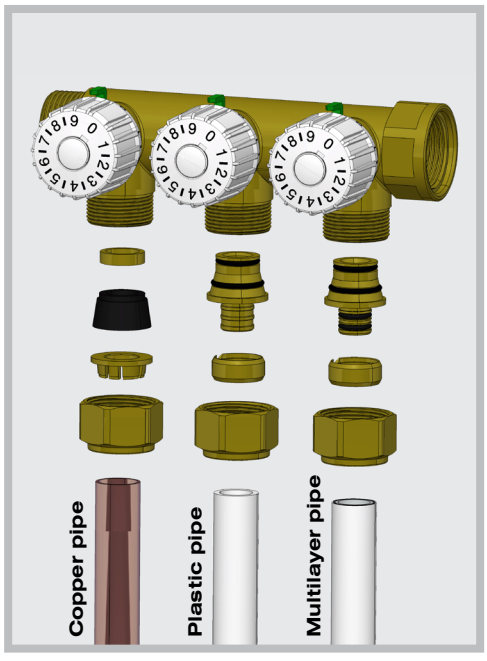








3 ADAPTERS FOR MANIFOLDS WITH PRESETTING



Adapters for copper pipe

Art.8426

Sealing kit for Ø10 - Ø12 - Ø14 copper pipe.

Art.8428

Sealing kit for Ø15 - Ø16 copper pipe.

Adapters for plastic and multilayer pipe

Art.6051

Kit for plastic pipe with interchangeable connection.

Art.6054

Kit for multilayer pipe with interchangeable connection.

Adapters for copper pipe

The sealing kit for copper pipe consists of a reduction (Ø10-12-14-15-16), a single-taper (Ø10-12-14-15-16) and a pipe guide washer (Ø10-12-14).

MATERIALS		TECHNICAL FEATURES	
Reduction and washer:	CW614N brass	**Working temperature:**	0-95°C
Single-taper:	heat-resistant rubber	**Max. working pressure:**	10 bar
Nut:	CW617N brass		

IN ORDER TO ASSEMBLE THE SEALING KIT YOU SHOULD:
- Insert the nut on the pipe.
- Insert the reduction on the pipe.
- Insert the single-taper on the pipe. If the pipes have Ø10-12-14, leave a space at the end of the pipe for the washer.
- Place the kit with the pipe in the conical seat of the manifold.
- Tighten the nut.

For copper pipes, sealing is guaranteed with pipe thickness of 1 mm or greater . For lower thicknesses (0.5 ± 0.7mm,) it is necessary to use a metal insert inside the pipe.
It is important to tighten the nut so as to allow the reduction to tighten the pipe, thus preventing unthreading. Minimum torque: 40 Nm.

Adapters for plastic and multilayer pipe

The sealing for plastic and multilayer pipe is carried out by means of a nut, an adapter and an ogive.

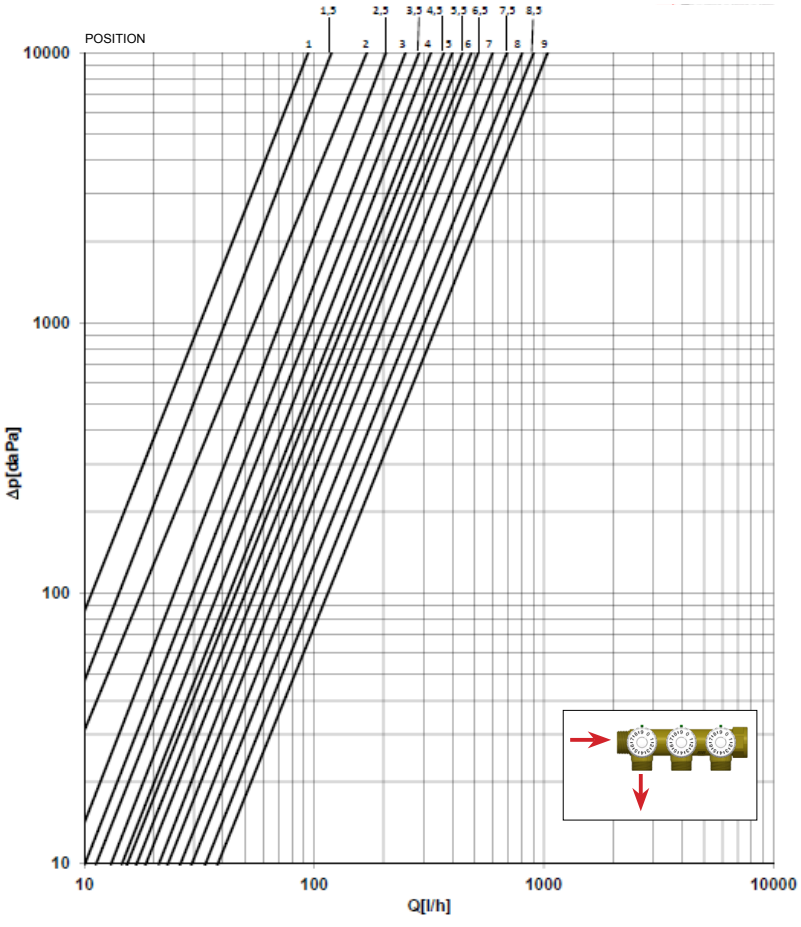
MATERIALS		TECHNICAL FEATURES	
Ogive and adapter:	CW614N - CW617N brass	**Working temperature:**	0-95°C
O-Ring:	EPDM	**Max. working pressure:**	10 bar
Nut:	CW617N brass		

IN ORDER TO CARRY OUT THE ASSEMBLY OF SEALING KIT YOU SHOULD:
- Insert the nut on the pipe.
- Insert the ogive on the pipe.
- When using adapters for multilayer pipe, calibrate the pipe with appropriate tools or with a round bar to avoid damage to the O-Rings, and insert the adapter.
- Place the pipe in the conical seat of the manifold.
- Tighten the nut.

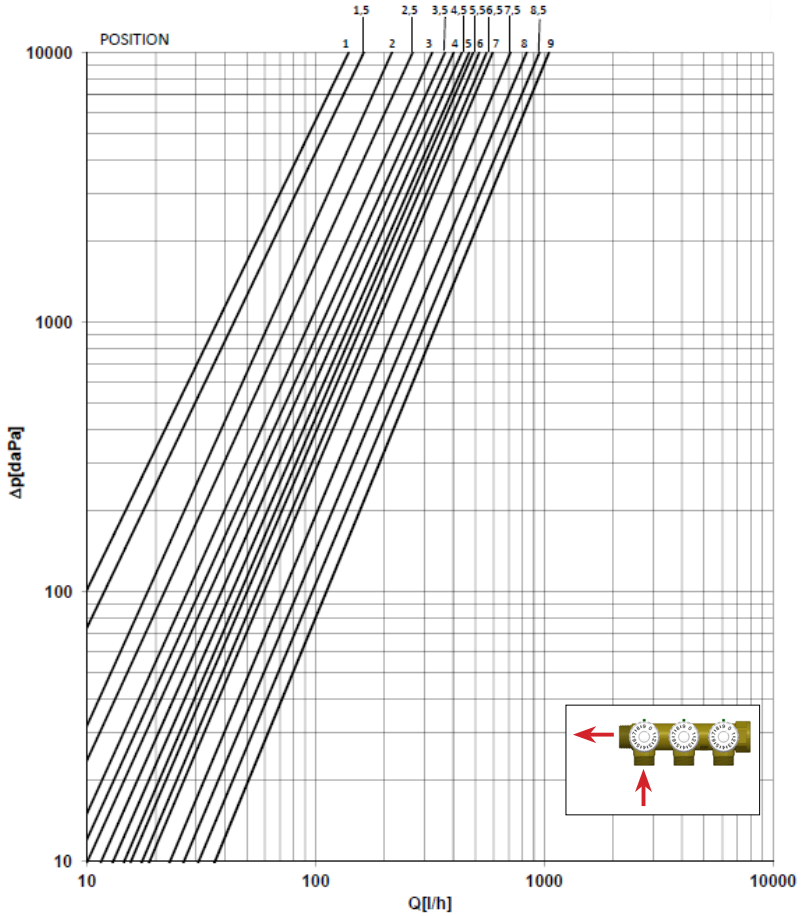
DO NOT use grease or oil to lubricate the fitting.

It is important to tighten the nut so as to allow the reduction to tighten the pipe, thus preventing unthreading. Minimum torque: 40 Nm.

4 FLUID DYNAMIC FEATURES

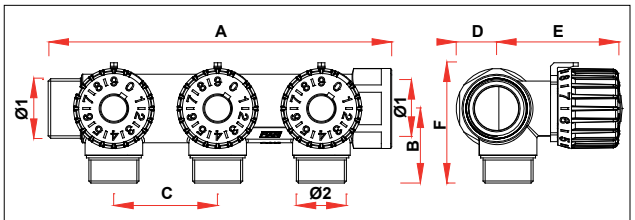


POSITION	Kv [m³/h]
1	0.09
1.5	0.12
2	0.17
2.5	0.2
3	0.25
3.5	0.28
4	0.32
4.5	0.36
5	0.4
5.5	0.46
6	0.48
6.5	0.5
7	0.58
7.5	0.7
8	0.8
8.5	0.9
9	1.1



POSITION	Kv [m³/h]
1	0.14
1.5	0.18
2	0.22
2.5	0.28
3	0.33
3.5	0.36
4	0.4
4.5	0.44
5	0.47
5.5	0.5
6	0.53
6.5	0.6
7	0.65
7.5	0.7
8	0.83
8.5	0.95
9	1.2

5 DIMENSIONAL FEATURES



CODE	OUT.	Ø1	A	B	C	D	E	F	Ø2
3815 3402	2	G3/4	104	32	45	18	55	52	24x19
3815 102	2	G1	108	36	45	21	57	56	24x19
3815 3403	3	G3/4	149	32	45	18	55	52	24x19
3815 103	3	G1	153	36	45	21	57	56	24x19
3815 3404	4	G3/4	194	33	45	18	55	52	24x19
3815 104	4	G1	198	36	45	21	57	56	24x19

6 TECHNICAL FEATURES

Max. working pressure: 10 bar
Max. working temperature: 95°C
Compatible media: : Water