

DESCRIPTION

K7522P

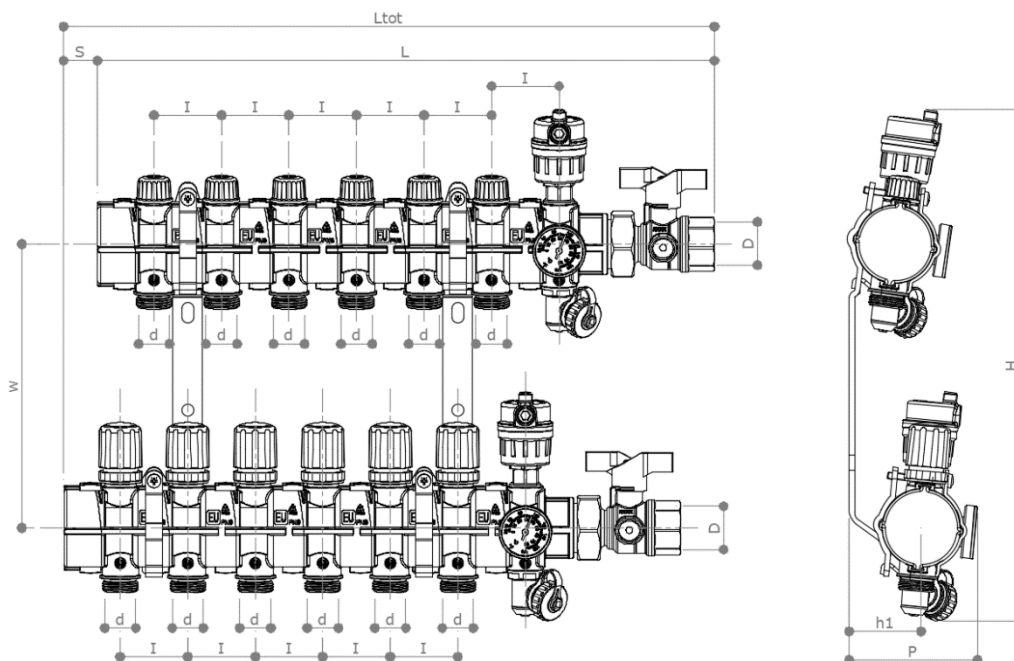
Pre-assembled modular PA66/brass manifold for underfloor heating systems and radiators systems. It is made by:

- Flow manifold with balancing valves
- Return manifold with thermostatic valves
- Cataphoresis coated steel brackets **7500Z**
- Self-sticking labels for circuits identification **070E**
- Terminal sets with thermometers(**T39P/80**), automatic air vents (**696/97**), drain off/filling valves and shut-off valves whit thermometer gauge **52XT** (up to 8 legs)/standard shut-off valves **52CE/1** (from 9 to 12 legs).
- Connection to the raiser: 1" F

Fittings are not included and they have to be purchased according to pipe types (art. **3015 - 3015SCR - 3625**). The manifold is supplied pre-assembled and tested. More ways can be added directly on site.



DIMENSIONS



D x d		1" x (3/4" x 18)		
N° exit	L [mm]	L _{tot} [mm]	Weight [kg]	Water Content [l]
2	257	282	3,31	0,44
3	307	332	3,71	0,52
4	357	382	4,11	0,60
5	407	432	4,51	0,68
6	457	482	4,91	0,76
7	507	532	5,31	0,85
8	557	582	5,71	0,93
9	607	632	6,11	1,01
10	657	682	6,51	1,09
11	707	732	6,91	1,17
12	757	782	7,31	1,26

I = 50 mm

S = 25 mm

W = 210 mm

H = 383 mm

h1 = 54 mm

P = 97 mm

Dimensions: mm

MATERIALS

Manifolds	PA66 GF30 and CW614N (EN 12164) CuZn39Pb3
Brackets	Galvanized steel
Handwheels	ABS
O-ring	EPDM – NBR
Springs	Stainless steel
Stems	AISI 303
Stuffing-box	CW614N EN 12164) CuZn39Pb3
Headwork	CW614N (EN 12164) CuZn39Pb3
Shutter	CW614N (EN 12164) CuZn39Pb3
Connections	CW614N (EN 12164) CuZn39Pb3
Memory stop	CW614N (EN 12164) CuZn39Pb3
Lockshield	CW614N (EN 12164) CuZn39Pb3

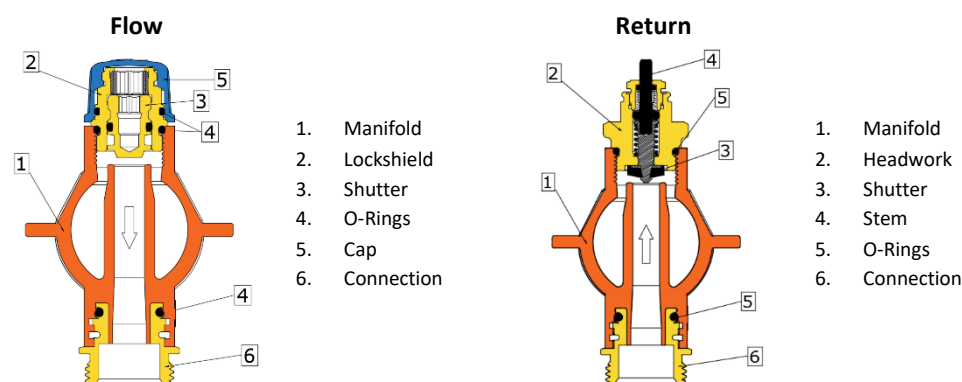
TECHNICAL SPECIFICATION

Max water temperature	60°C
Max pressure	6 bars
Max ambient temperature	50°C
Max differential pressure	0.6 bar
Max flow rate (1")	2.8 m³/h

FLOW METER DETAILS

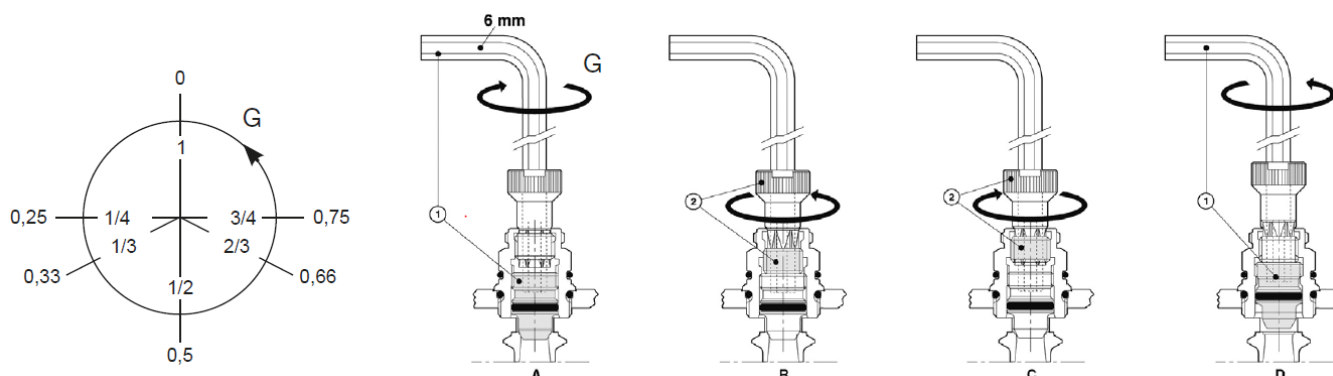
The flow meter **M7035T** is a balancing valve; by using that, the installer can balance the flow and pressure drop according to installation design specifications.

In order to ensure the proper operation of the flow meter, please observe the direction of flow. The manifold with flow meter **MUST** be always the flow manifold.


MEMORY STOP™ DEVICE OPERATION

The following operation has to be fulfilled by means of the key **0991B** shown beside. The key is not included in the packaging.

- Close the shutter throughout the 6 mm hexagonal key.
- Close the Memory Stop device tightening counterclockwise the socket wrench (left thread). Hold the shutter using the hexagonal key.
- According to the pressure drop diagram, tighten clockwise the socket wrench as many rounds as it is necessary to get suitable fluid-dynamic conditions (the thread of Memory Stop device has the same pitch of the shutter thread).
- Unscrew the shutter all the way up.


APPLICATION FIELD

The distribution manifold Pettinaroli **K7522P** is widely used for both underfloor heating and radiator systems installation.

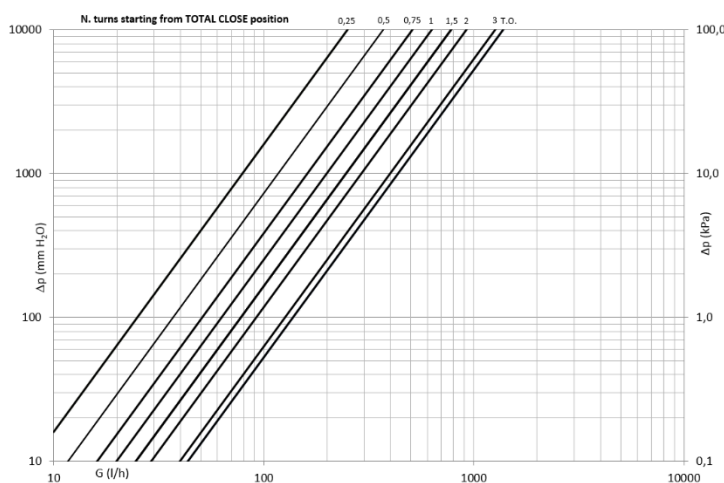
The thermostatic headworks placed on the return manifold can fit 230 V thermo-electric actuators (for example **A54202** or **A54204**) or 24 V ones (for example **A54402** or **A54404**). Those devices can managed the room temperature if room thermostats drive them.

PRESSURE DROP DIAGRAM

The pressure drop diagram beside has been got keeping the thermostatic valves completely open. The flow rate and the pressure drop has been calculated according to the setting of the micrometric lockshield valve. The table below summarizes the Kv values in function of lockshield valve turns starting from the **TOTAL OPEN** position.

Turns	0.25	0.5	0.75	1	1.5	2	3	T.O.
Kv	0.25	0.37	0.51	0.63	0.78	0.92	1.26	1.38

T.O.: TOTAL OPEN



ADDITIONAL COMPONENTS

The modular plastic/brass manifold **K7522P** may be modified directly by the customer. He can add or reduce the number of ways, change connection sizes to the raiser which can be scaled up to 1 1/4" changing the pair of valves only. Here a list of additional modules:

7500TD: manifold expansion kit consisting of 1 pc. flow module and 1 pc. return module.



ASSEMBLING PROCEDURE

If a supplementary module has to be add to the **K7522P** manifold, follow the procedure below:



1. Pull the modules together rotating one 90°, as shown above



2. Insert the male part all the way in the female one



3. Rotate 90° clockwise



4. Slide the locking clip to prevent accidental unscrewing

To remove a module, follow the reverse procedure. Once a module has been moved, Fratelli Pettinaroli does not guarantee watertight seal.