

## DESCRIPTION

# K7522TO

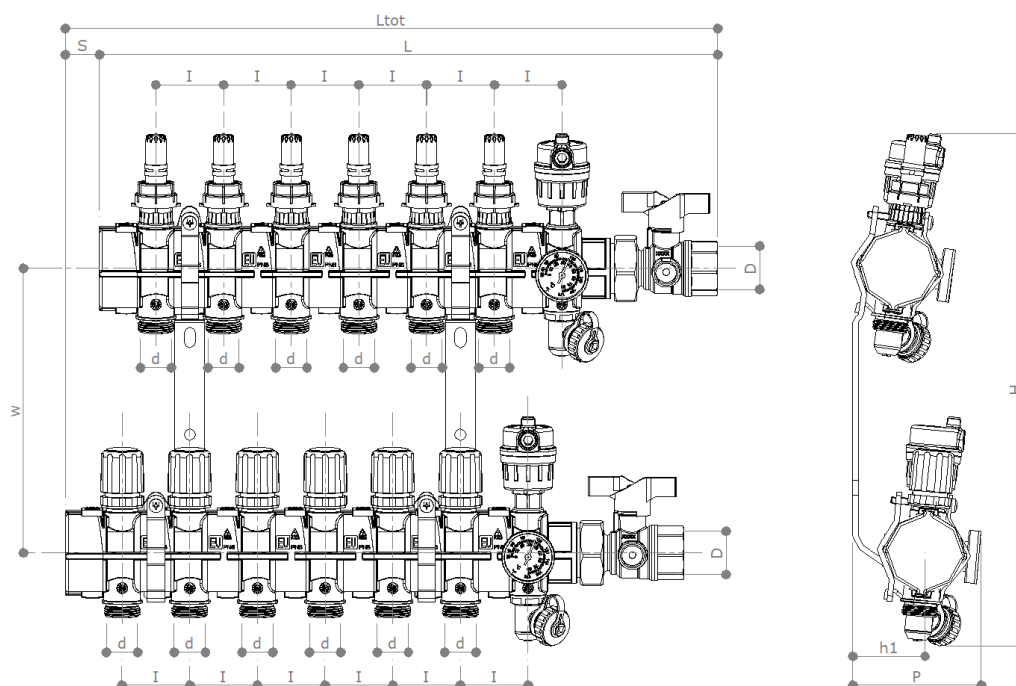
Pre-assembled modular PA66/brass manifold for underfloor heating systems and radiators systems. It is made by:

- Flow manifold with balancing flow meters
- 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 <sub>tot</sub> [mm]	Weight [kg]	Water Content [l]
2	257	282	3,43	0,44
3	307	332	3.86	0,52
4	357	382	4.29	0,60
5	407	432	4.72	0,68
6	457	482	5.15	0,76
7	507	532	5.58	0,85
8	557	582	6.01	0,93
9	607	632	6.44	1,01
10	657	682	6.87	1,09
11	707	732	7.30	1,17
12	757	782	7.73	1,26

I = 50 mm

S = 25 mm

W = 210 mm

H = 383 mm

h1 = 54 mm

P = 97 mm

Dimensions: mm

**MATERIALS**

<b>Manifolds</b>	PA66 GF30 and CW614N (EN 12164) CuZn39Pb3
<b>Brackets</b>	Galvanized steel
<b>Handwheels</b>	ABS
<b>O-ring</b>	EPDM – NBR
<b>Springs</b>	Stainless steel
<b>Stems</b>	AISI 303
<b>Stuffing-box</b>	CW614N EN 12164) CuZn39Pb3
<b>Headwork</b>	CW614N (EN 12164) CuZn39Pb3
<b>Shutter</b>	CW614N (EN 12164) CuZn39Pb3
<b>Connections</b>	CW614N (EN 12164) CuZn39Pb3
<b>Flow meter</b>	High temperature resistant plastic

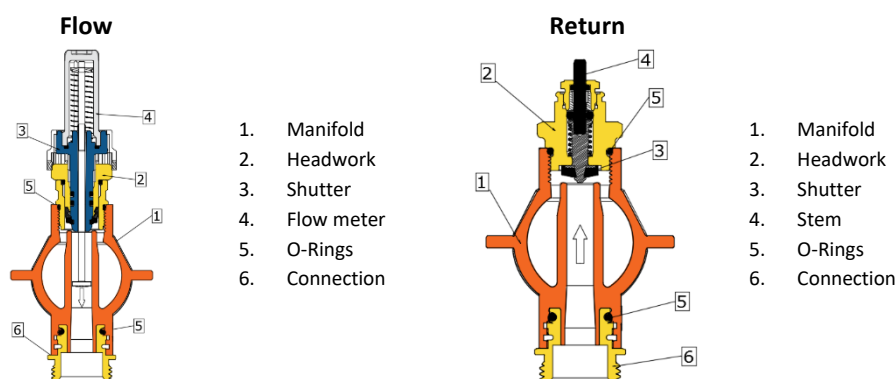
**TECHNICAL SPECIFICATION**

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.

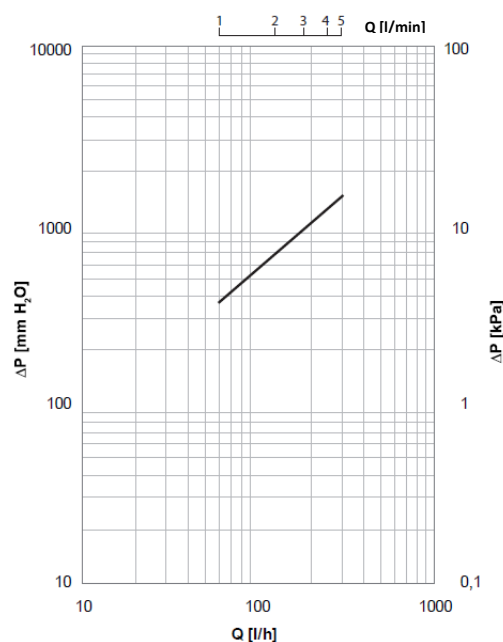

**APPLICATION FIELD**

The distribution manifold Pettinaroli **K7522TO** 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 diagram beside refers to the whole manifold with thermostatic valve (on the return manifold) on fully open position. The diagram provides the manifold characteristic in function of the adjustment carried out by the flowmeter



### BALANCING AND REGULATING FEATURES

The flowmeters **M7035T** on the flow manifold simplify the operation of loops balancing. Once the installation is complete and the system is filled, the system can easily and quickly be balanced as follows:

1. Open the valves on the return manifold (black handwheel), and switch ON the pump in order to flow the water in the system

2. Remove the red protective ring.



3. Move the red indicator ring on the position corresponding to the required flow.



4. Turn the black nut until the floating plate is between the red indicator rings.



5. The flow rate is balanced. Put back the red protective ring.



### ADDITIONAL COMPONENTS

The modular plastic/brass manifold **K7522TO** 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:

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



### ASSEMBLING PROCEDURE

If a supplementary module has to be added to the **K7522TO** 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.