

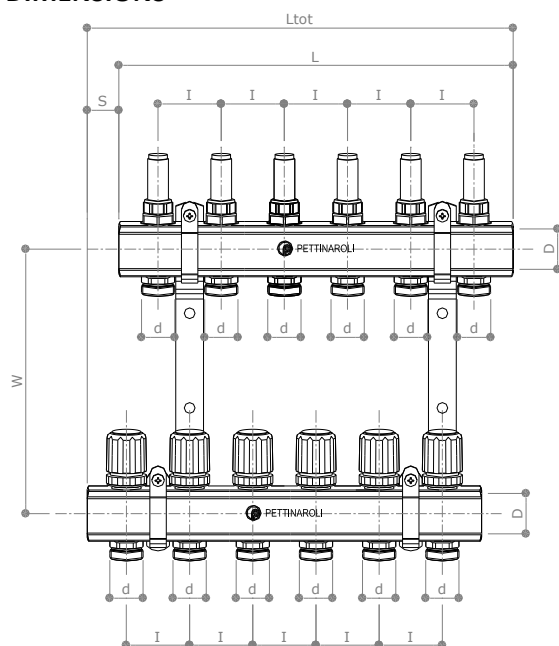
## DESCRIPTION

# 7035TO

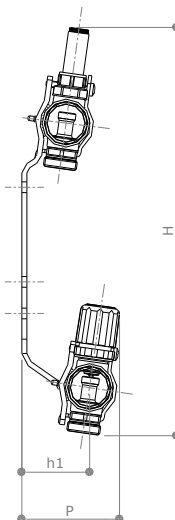
Pre-assembled manifold with balancing flow meters. It comprises of:

- Supply manifold with balancing valves and flow meters
- Return manifold with shut off valves
- 2 complete brackets Art. 7080/1
- 2 self-sticking labels Art.070E
- Without fittings

## DIMENSIONS



$D = 1'' F$   
 $I = 50 \text{ mm}$   
 $W = 210 \text{ mm}$   
 $H1 = 54 \text{ mm}$   
 $L = (n^{\circ} \text{ outlet} \times 50) + 12$   
 $d = (3/4'' \times 18 \text{ mm})$   
 $S = 25 \text{ mm}$   
 $H = 324 \text{ mm}$   
 $P = 77 \text{ mm}$   
 $L_{tot} = L + 25 \text{ mm}$



N° out-let	L (mm)	L <sub>tot</sub> (mm)	Weight (kg)	Water Content (l)
2	112	137	1,65	0,229
3	162	187	2,59	0,300
4	212	237	3,26	0,370
5	262	287	3,90	0,441
6	312	337	4,56	0,512
7	362	387	5,22	0,582
8	412	437	5,88	0,653
9	462	487	6,59	0,724
10	512	537	7,25	0,794
11	562	587	7,91	0,865
12	612	637	8,54	0,229

## COMPONENTS

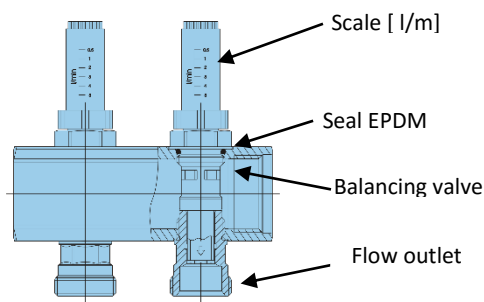
Manifolds	CW614N (EN 12164) CuZn39Pb3
Brackets	Steel
Handwheels	ABS
O-ring	EPDM – NBR
Springs	Stainless steel
Spindles	AISI 303
Flow meters	Plastic resistant to high temperature

## TECHNICAL CHARACTERISTICS

Max. Flow temperature	80°C
Max. pressure	10 bar
Max. ambient temperature	50°C
Max. differential pressure	0.8 bar

## FLOW METER DETAILS

The flowmeter **M7035T** is a balancing valve; by using that, the installer is able to balance the flow and pressure drop in function of the specifications of the installation project. 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.



## FIELDS OF APPLICATIONS

The **7035TO** Pettinaroli's pre-assembled manifold could be installed for the underfloor (or ceiling) radiant system and for the radiators distribution too.

The thermostatic valves on the return manifold allow the installation of thermo-electrical actuators 230 V (**A54202** or **A54204**) or 24 V (**A54402** or **A54404**) that, controlled by room thermostats, let you control the temperature of each single room.

## BALANCING AND REGULATING FEATURES

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

1. Open all the valves on the return manifold (white handweel), and switch ON the pump circulate the water in the system

2. Remove the red nut.



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 nut.



## PRESSURE DROP DIAGRAM

The diagram beside refers to the manifold complete 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

