

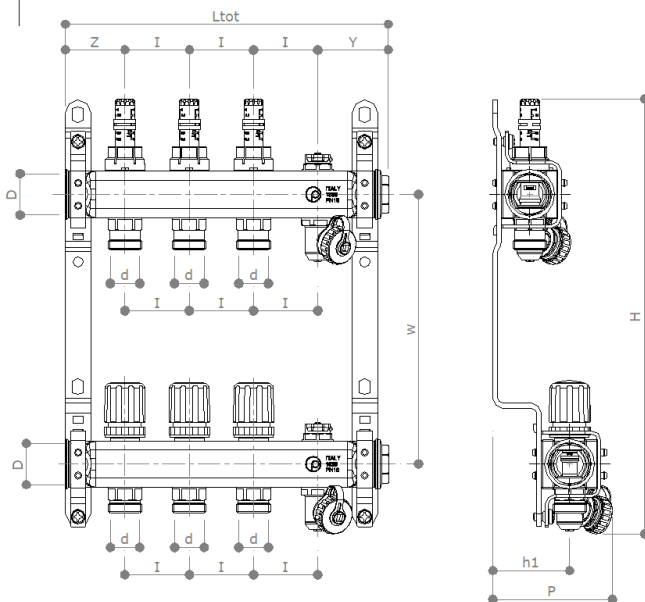
DESCRIPTION

8114TO

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

- Supply manifold with balancing valves and flow meters
- Return manifold with shut off valves (with thermostatic option)
- Drain off valve
- Manual Air vent
- 2 complete brackets
- 2 self-sticking labels
- 2 End Cap 1" assembled already
- Without fittings

DIMENSIONS



D = 1" F ISO228 (parallel) d = (3/4"x18mm) (Euro)
 l = 50 mm Z = 46,5 mm
 W = 210 mm Y = 55,5 mm
 h1 = 60 mm H = 339 mm
 $L_{tot} = (n^{\circ} \text{ uscite} \times 50) + 102$ P = 93 mm

N° out	L _{tot} (mm)	Weight(kg)	Water cont. (l)
2	202	2,10	0,36
3	252	2,55	0,47
4	302	2,99	0,58
5	352	3,43	0,69
6	402	3,88	0,80
7	452	4,32	0,91
8	502	4,78	1,03
9	552	5,20	1,13
10	602	5,64	1,25
11	652	6,10	1,36
12	702	6,53	1,47

COMPONENTS

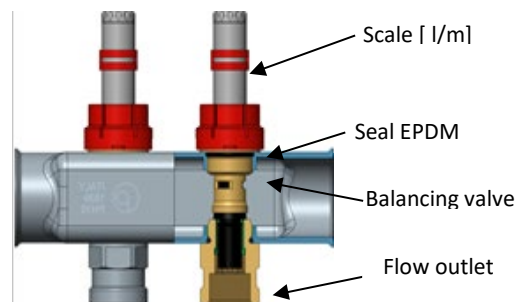
- Manifolds** Stainless steel AISI 304L
- Brackets** Steel
- Handwheels** ABS
- O-ring** EPDM – NBR
- Springs** Stainless steel
- Spindles** AISI 303
- Flow meters** Brass CW614N

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



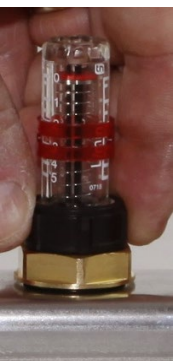

The **8114TO** Pettinaroli's pre-assembled manifold could be installed for the underfloor (or ceiling) radiant system and for the radiators distribution too.

The thermostatic valves on the return manifold allow the installation of thermo-electrical actuators 230 V (**A542O2** or **A542O4**) or 24 V (**A544O2** or **A544O4**) that, controlled by room thermostats, let you control the temperature of each single room.

BALANCING AND REGULATING FEATURES

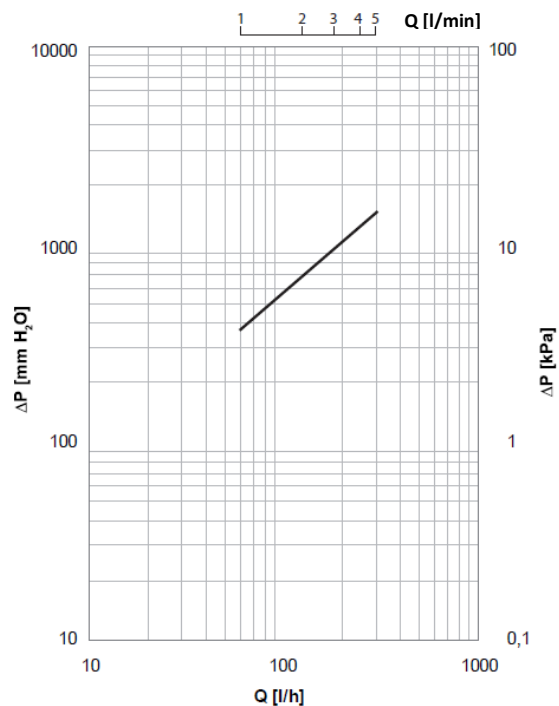
The flowmeters **M7035T**, provided on the flow manifold, simplify the operation of loops balancing. Once the installation is complete and the system is filled the balancing can be performed easily and rapidly proceeding as follows:

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

<p>2. Remove the red nut.</p>		<p>3. Move the red indicator ring on the position corresponding to the required flow.</p>	
<p>4. Turn the black nut until the floating plate is between the red indicator rings.</p>		<p>5. The flow rate is balanced. Put back the red nut.</p>	

PRESSURE DROP DIAGRAM

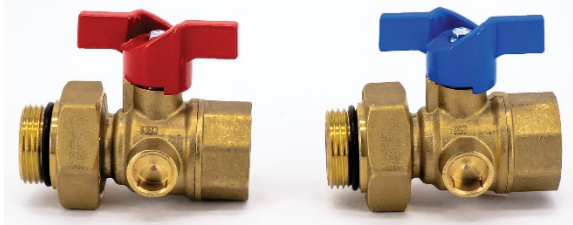
The diagram beside refers to the manifold complete with thermostatic valve (on the return manifold) on fully open position. The diagram provides the manifold characteristic in function of the adjustment carried out by the flowmeter



ADDITIONAL COMPONENTS

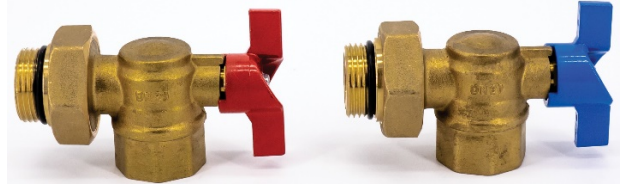
All the components (valves or fittings) used to connect the raisers to the 8114TO manifold, must have thread 1" ISO228 (parallel) equipped with o-ring to guarantee tightness, as for the products listed below

52XT/3



Set of 2 F x Union straight ball valve with butterfly handle. Union end with sealing O-Ring. With house for thermometer **T39P/80** (not included).

59X/3



Set of 2 F x Union angle ball valve with butterfly handle. Union end with sealing O-Ring.

T39P/80



Thermometer 52XT/3 double range :
0-80°C / 32°-176°F

1007SWB



Union piece 1" M with o-ring x 1" F Swivel nut (flat seat)

3015 – (3/4" x 18) Euro x



Complete adapting set for polyethylene pipe (PE), Cross linked polyethylene pipe (PE-X) or PE-RT pipe

3015SCR – (3/4" x 18) Euro x



Complete adapting set multilayer pipe PE-X/Al/PE-X, PE-RT/Al/PE-RT,