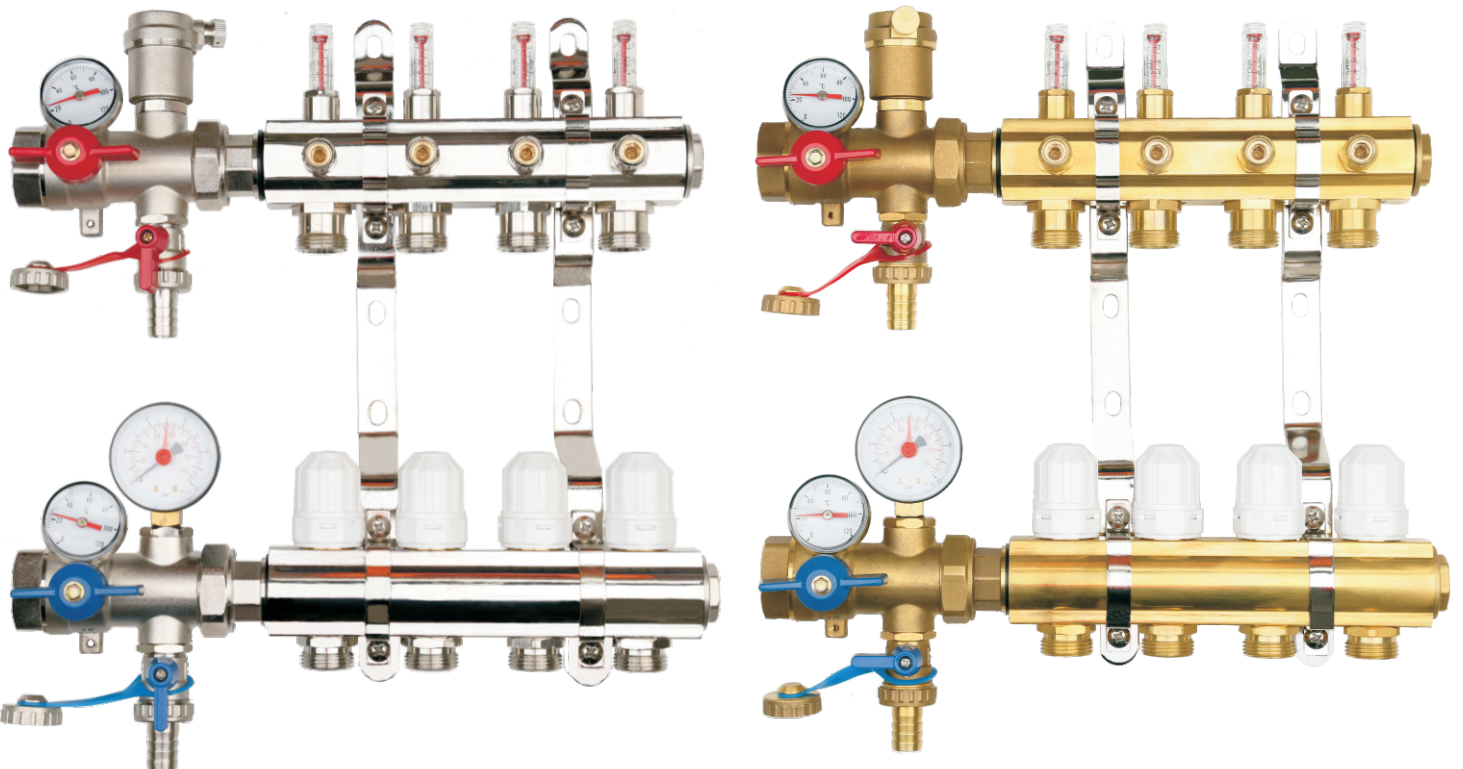


Preassembled Manifolds with Flow Meters and Multifunction Valves

ZL-1200

Data sheet



Description

The manifold consisting of:

- One delivery and return manifold, formed of a delivery bar with front balancing lockshield valves equipped with a mechanical memory and flow meters, and a return bar with shut-off valves with handwheel, suitable for electro-thermal command.
- Pair of multifunction valves, ZL4460 series, complete with terminal plugs for the manifold.

Installed upstream of the manifold, they integrate the following functions:

- Ball shut-off valves
- Air vent valves
- Filler/drain cocks
- Contact thermometers
- Inputs for immersion temperature probes \varnothing 6 mm

- This product has two options of tempering and nickel plating, please make notes in the order.

Technical Specifications

Materials

Manifold and terminal plugs	Brass
Multifunction valves	Brass
Seals	EPDM
Handwheel	ABS
Brackets	Steel

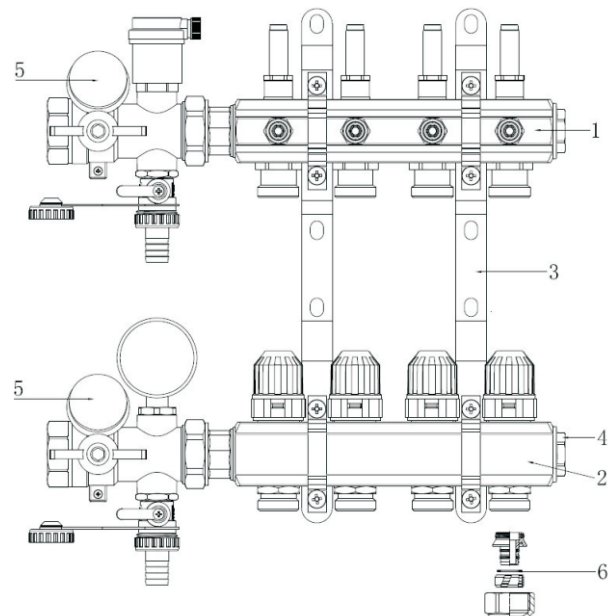
Performance

Working temperature range	5~100°C
Maximum working pressure	10bar
Flow meter scale	0.5~5L/min
Main connections	1" F (ISO228-1)
Outlets	3/4" M (ISO228-1)
Centre distance	50mm

Characteristic Components

No. Components

1	Delivery Manifold
2	Return manifold
3	Brackets
4	Terminal plugs
5	Multifunction valves (ZL4460 series)
6	Adaptor s(ZL1128 series)



Delivery manifold

The delivery manifold consists of a brass bar containing a balancing lockshield valve with mechanical memory for each circuit so that the calibration position in each one can be identified and maintained, even in the case of total interception. The mechanical memory takes the form of a specific ring which, when regulated with hex wrenches, limits the maximum opening of the lockshield valve to the value selected during the balancing phase. To make the correct adjustment, fully open the metal ring using SW7 hex wrenches, then close the lockshield valve fully down using SW5 hex wrenches. Open the valve by the number of rotations determined via the calibration diagrams, then tighten the memory ring as far as it will go on the valve. The flow meter allows you to immediately read the flow rate circulating in the individual circuits, thereby ensuring optimum balancing.

Return manifold

The return manifold is equipped with shut-off valves with a manual handwheel. The shut-off valves can be fitted with thermo-electric actuators to realize automatic temperature control, The stroke of electro-thermal actuators should ≥ 3 mm.

Multifunction valves

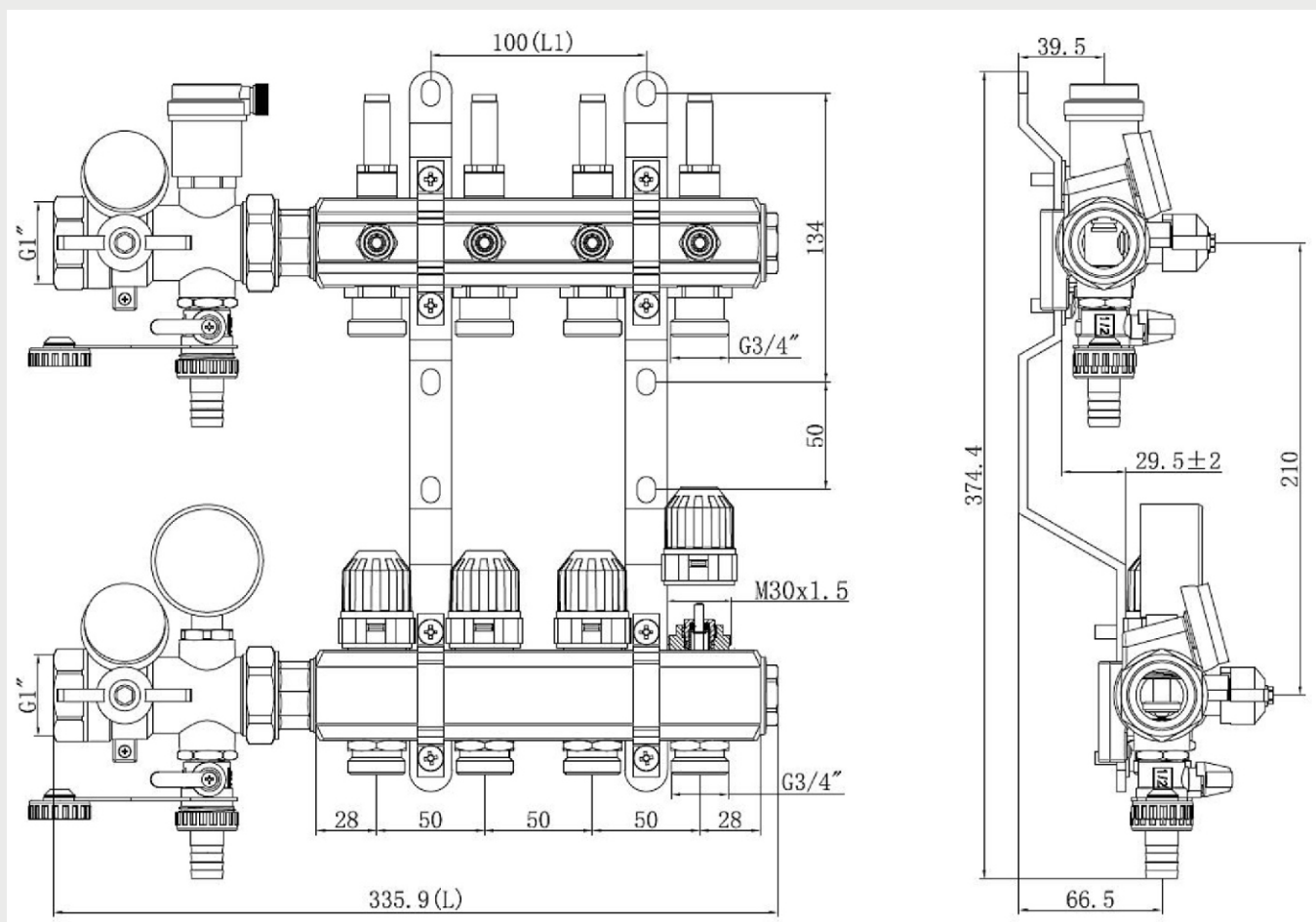
Pair of multifunction valves (delivery and return) for distribution manifolds.

Possibility of reversible installation at the inlet of the manifold, with fluid supply both from the left and from the right.

Installed upstream of the distribution manifold bars they integrate the following functions:

- shut-off ball valve;
- automatic air vent valve;
- drain cock;
- contact thermometer;
- inlet for immersion temperature probe $\varnothing 6$ mm.

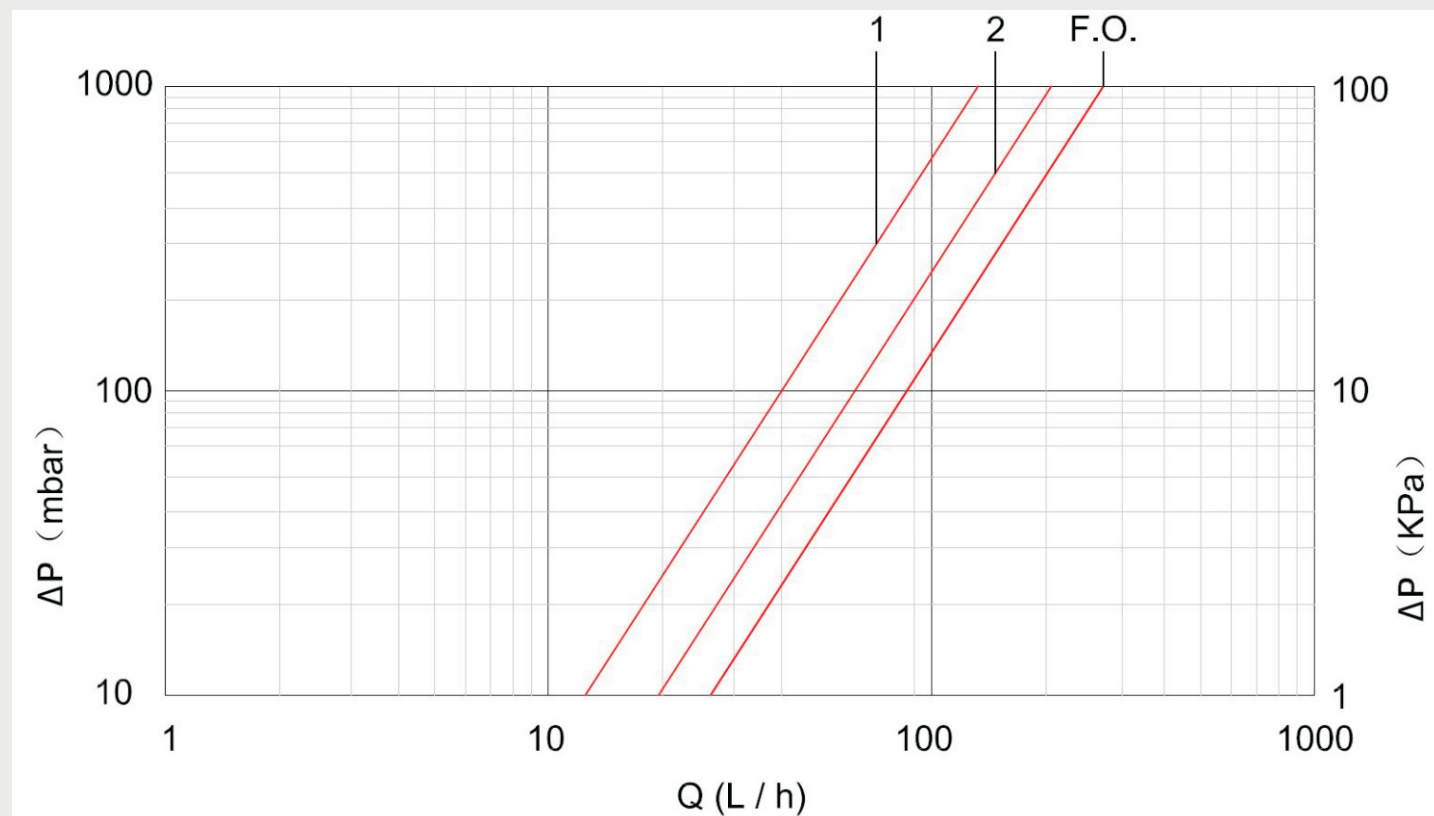
Dimensions



Code	No. of outlets	L/mm	L1/mm
ZL1200002	2	236	-
ZL1200003	3	286	50
ZL1200004	4	336	100
ZL1200005	5	386	150
ZL1200006	6	436	200
ZL1200007	7	486	250
ZL1200008	8	536	300
ZL1200009	9	586	350
ZL1200010	10	636	400
ZL1200011	11	686	450
ZL1200012	12	736	500

Hydraulic Characteristics

Losses of pressure of single circuit:



NO. of lockshield valve turns	1	2	F.O.
Kv	0.47	0.73	0.85