

Flowmeter temperature controlled water collector

Descriptions

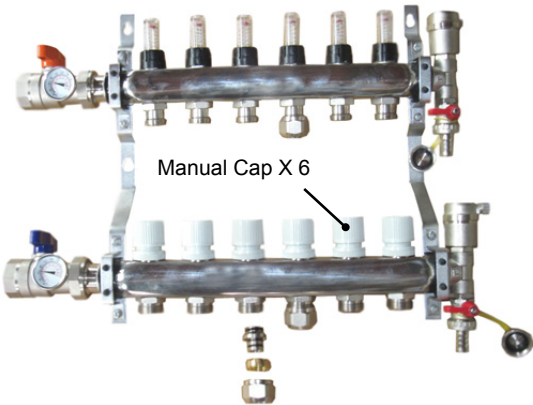
Manifold is used for heat regulation in floor heating systems.

Manifold is for flow and return, with the option of connecting up to twelve floor heating circuits. Components can be connected in series via unions.

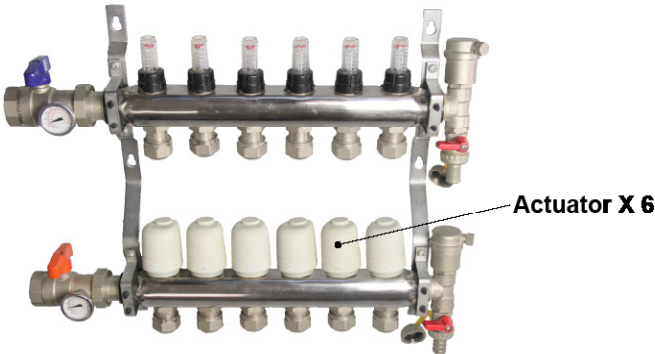
The flow is set individually for each floor heating circuit. Thermostatic valve inserts are integrated in the return manifold, which can be controlled electronically by means of thermal actuators or act as a self-acting unit by means of remote temperature adjusters.

Versions available from 2–12 Ports to serve up to 12 circuits per manifold.

The manifold comes in your choice of 3/4" Outlets rated for 21 PSI or 1/2" Outlets rated for 36 PSI.



Manual adjustable caps can be replaced by actuators shown in the following picture.

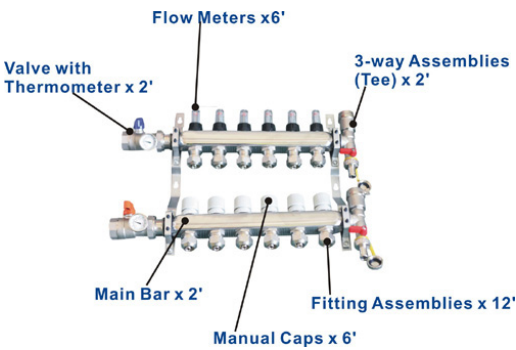


Main Material & Components

The manifold is made of 304 stainless steel.

Components Include:

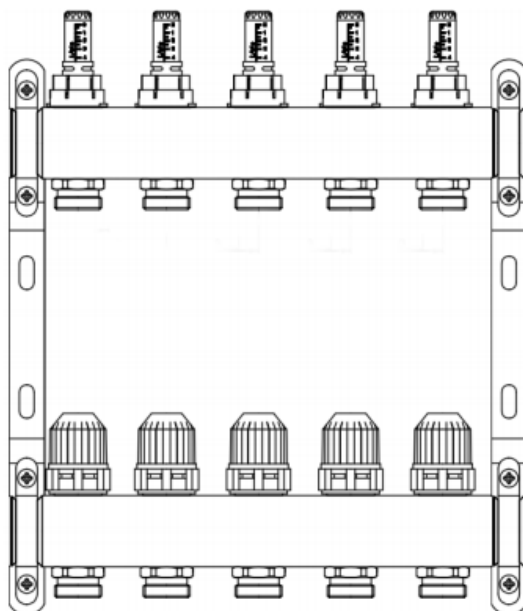
- 2-12 loops optional,
- 1" main bars and 3/4" or 1/2" outlets;
- viewable and adjustable flow meters;
- automatic drain tap, end cap and drainage valve ;
- a pair of brackets;
- straight/angle valves with thermometer;
- loop fitting assemblies: 1216 & 1620;
- loop cap.



Loop Cap:	Loop Fitting Assembly 1216:	Loop Fitting Assembly 1620:

Function

No matter how the system differential pressure changes The flow of each floor heating branch finally operates stably according to the needs of heat load



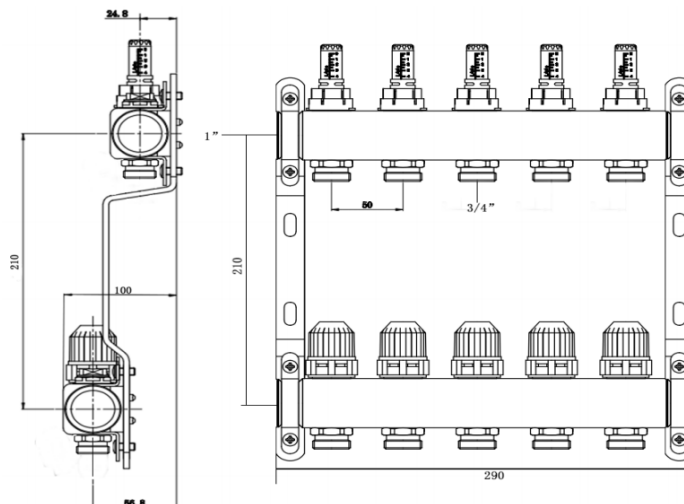
This series contains

- Visual dynamic flowmeter for inlet water, with adjustment range of 0 ~ 5L / min
- Return water separator, each branch with stop valve
- (optional) end assembly with manual / automatic exhaust drain valve
- The water separator bracket is used to fix the water separator in the box or on the wall
- NPT threaded master valve(including thermometer)

Parameter

Pipe	SUS304	Sealing element	EPDM
Flowmeter	PA	PEX	1/2or3/4
Spring	SUS304	PN	16
Valve	HPB57-3	Specifications	2-14+
Handwheel	ABS		

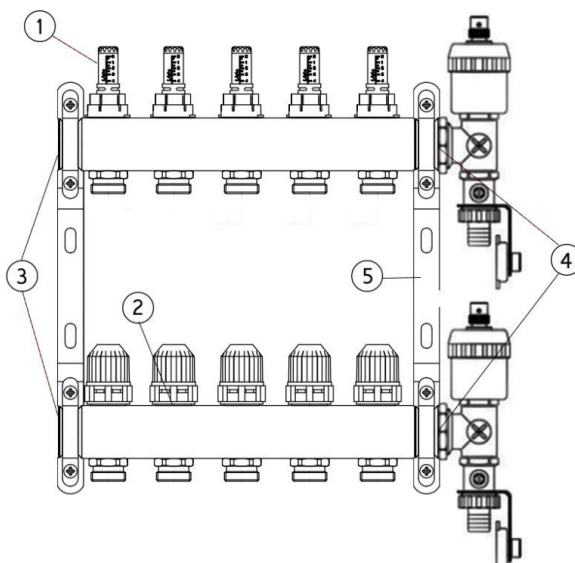
Dimensions



Loop	2	3	4	5	6	7	8
Lenght	290mm	340mm	390mm	440mm	490mm	540mm	590mm
Weight	3.3kg	3.85kg	4.35kg	4.85kg	5.35kg	5.85kg	6.35kg
Loop	9	10	11	12			
Lenght	640mm	690mm	740mm	790mm			
Weight	6.85kg	7.35kg	7.85kg	8.4kg			

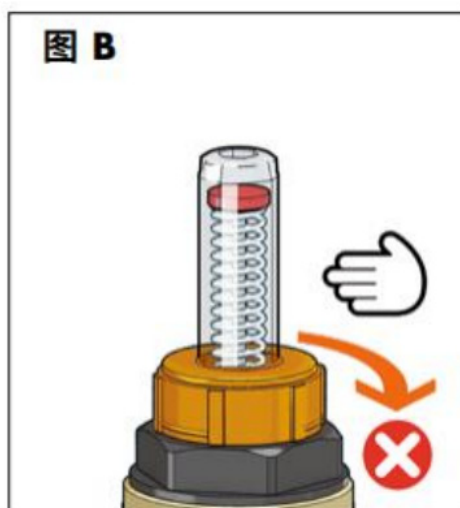
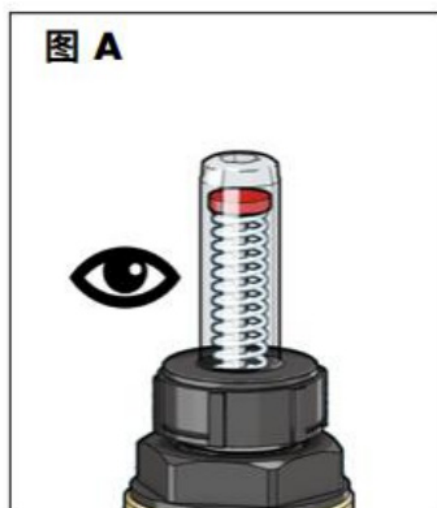
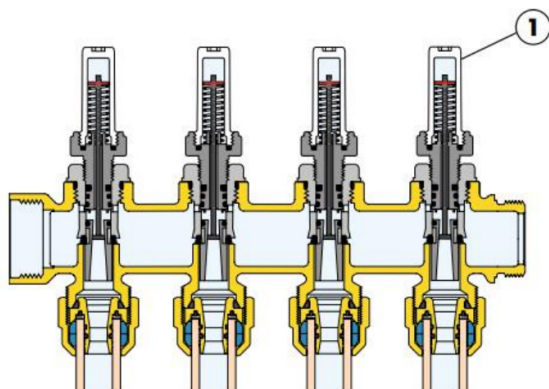
Component Characteristics

- The water inlet branch is equipped with visual flowmeter type stop valve; Each water flow can be accurately adjusted to prevent water grabbing by branch pipes
- The return water branch is a spring temperature control valve core; Removably mounted electrothermal actuator
- The front end can be equipped with inlet and return water ball valve
- The tail end can be equipped with manual / automatic exhaust valve and drain valve
- The bracket can fix the heating manifold in the box or on the wall

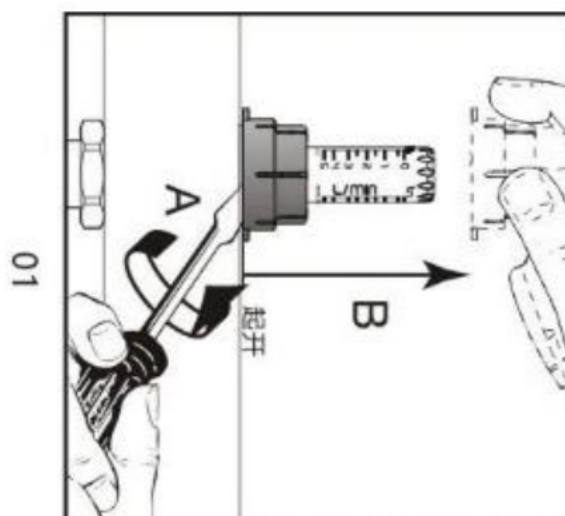
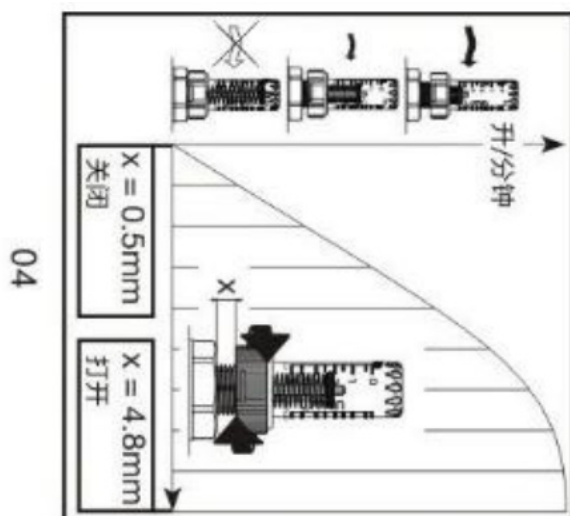


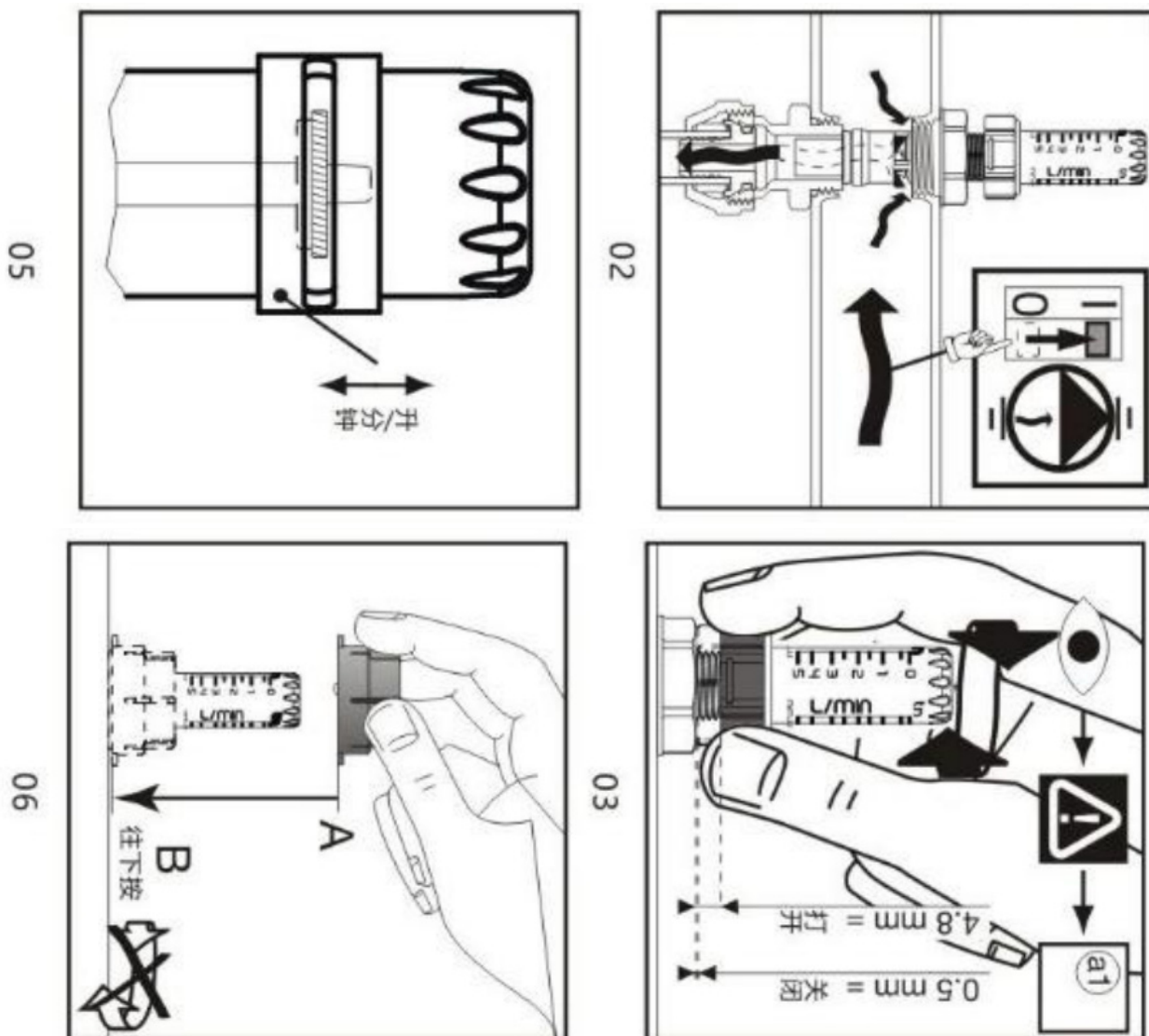
Use of flowmeter Characteristics

- The inlet branch is equipped with a visual flowmeter(Fig.1)Visual flowmeter(Fig.A)
- During use, the visual flowmeter shall always be fully open (Fig. A); In addition, the flowmeter can also act as a branch switch (Fig. B)



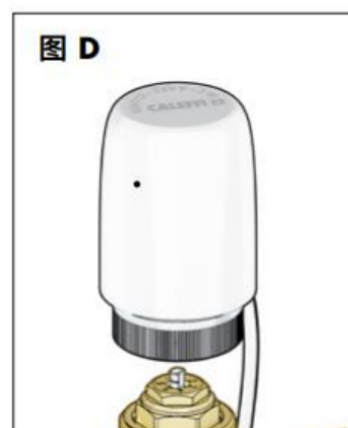
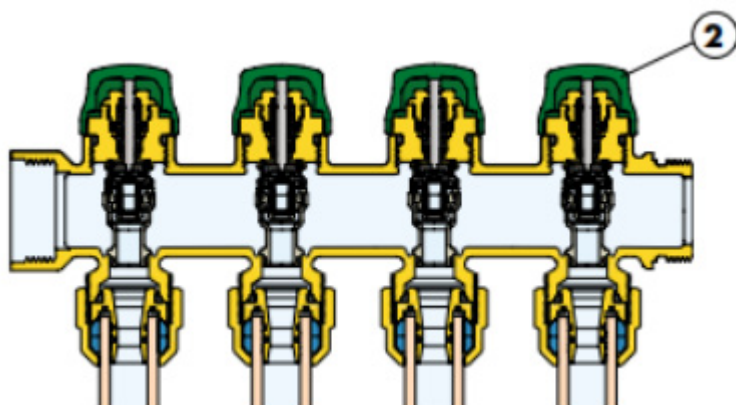
Flowmeter usage method





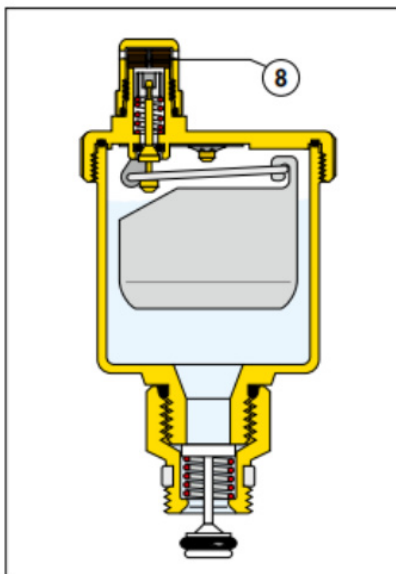
Branch return pipe

- The return branch pipe is equipped with a stop valve, which can act as a switch(2)
- The indoor temperature can be adjusted according to the comfort degree by installing an electric actuator and an indoor temperature controller (Fig. D)



End assembly of return water separator

The automatic exhaust valve eliminates the water injection of the system and the internal storage during operation in a continuous and automatic manner. The hygroscopic exhaust cap (8) can prevent accidental drip.

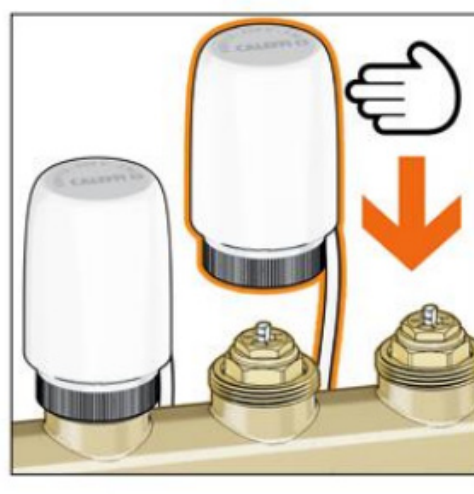
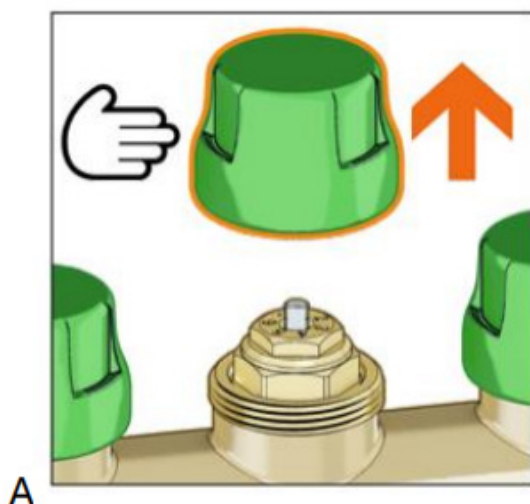


Working principle

- Visual flowmeter balanced water separator, no matter how the system pressure changes, the flow of each floor heating branch always operates stably according to the required flow
- Adjust the branch flow as required
- It can be equipped with electric actuator and temperature controller. When the temperature controller monitors the change of indoor temperature, it drives the actuator to keep the indoor temperature stable

Electrothermal actuator installation

- Remove the handle from the valve (Fig. A)
- Install the actuator (Fig. B)



Application Diagram

