

# Microbubble Magnetic Dirt Separator

## DATA SHEET

### ZL-2556



## Description

In the heating and air conditioning circulation system, the impurities contained in the circulating water may cause the wear and tear of pumps, valves and other system components, and these impurities will block the heat exchanger, radiator and pipes, so that the thermal efficiency of the system is reduced.

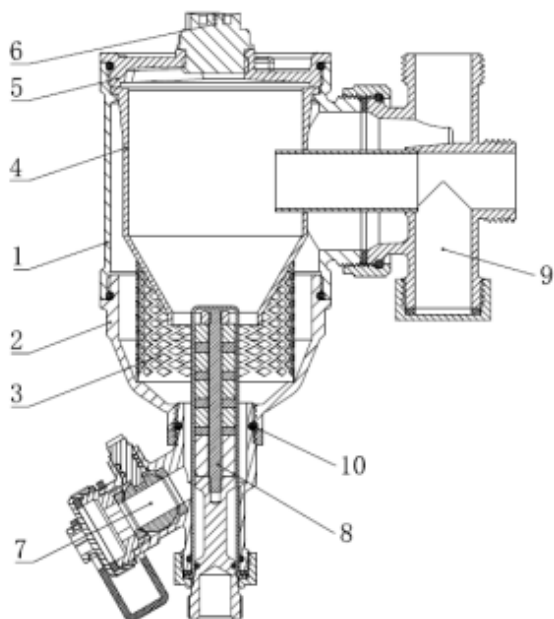
The magnetic dirt separator separate the impurities from the system, especially particles of sand and rust. These impurities are separated and deposited in the reservoir of the decontamination valve, allowing for a longer cycle of cleaning and removal during system operation.

Microbubble magnetic dirt separator has the characteristics of traditional decontamination valve, but also added a rust impurity collection function. This type of dirt separator is made of copper alloy, safe and reliable, especially suitable for heating and refrigeration system, it has the advantages of horizontal, vertical, corner pipe can all be installed and used.

## Performance

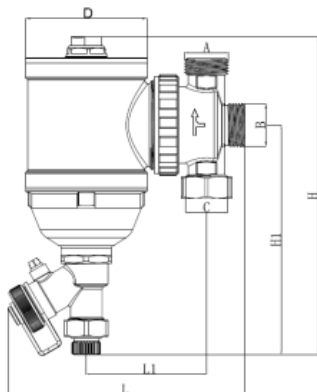
Applicable medium: Water、 glycol solutions Max. percentage of glycol is 30%
Maximum working temperature: 90℃
Maximum working pressure: 6bar
High Strength magnet:5500GS
Connections: G3/4”M (ISO228-1) Available with 1216 or 1620 adapter

## Characteristic Components



No.	Components	Materials
1	Valve body	Brass
2	valve bonnet	Brass
3	Filter net	Stainless steel
4	Cyclonic chamber	PA
5	bonnet	Brass
6	Air vent screw	Brass
7	Adjustable drain cock	Brass
8	Magnet component	NdFeb
9	Connections	Brass
10	Seals	EPDM

## Dimensions



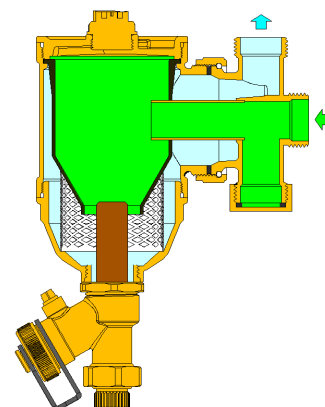
Code	A	B	C	D	L	L1	H	H1
ZI2556343434*	G3/4"	G3/4"	G3/4"	Φ73	143	72	192	138
*Note separately in the order if 1216 or 1620 adapter is required.								

## Product features

### • Ability to separate rust impurities

The magnetic dirt separator effectively removes rust impurities from the system.

A magnet component is built into the center of the decontamination valve to form a large magnetic field effect in the decontamination valve. When discharging, pull out the magnet component, and the rust impurities can be washed out by the water pressure of the system. Because the magnet component is inside the copper pipe, it does not contact the water flow directly, so it will not affect the water quality of the system.



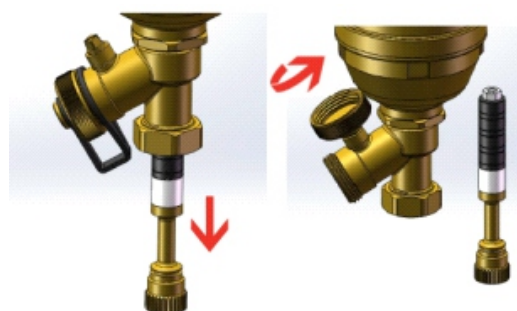
### • Air vent

Use a screwdriver to undo the screw on the top plug in order to purge any air that has collected at the top of the body



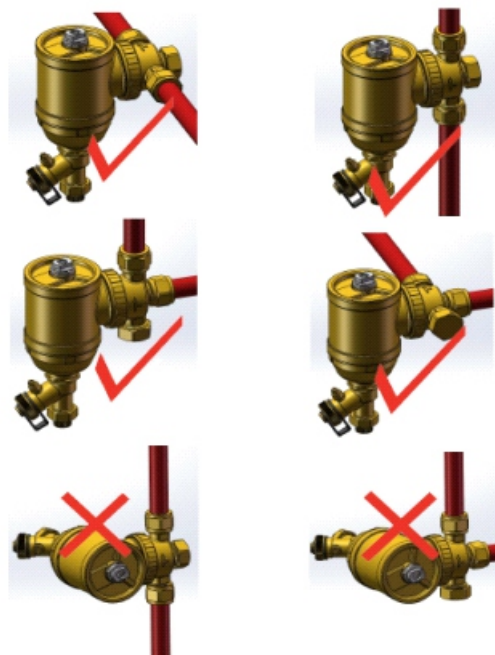
### • Sludge discharge

Remove the magnet component inside the drain valve, then open the lower drain cock using the drain cock cover on the drain cock, and the system can also drain normally when running.

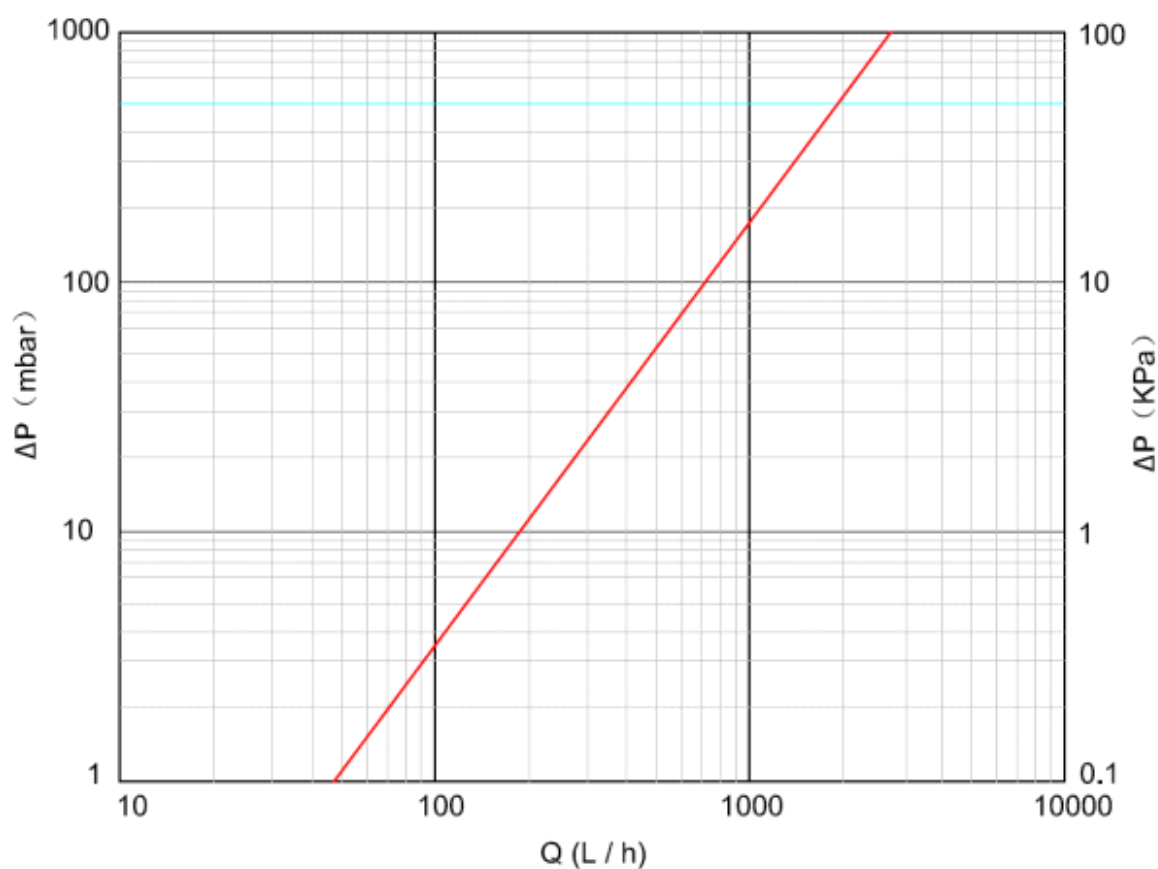


## • Installation

As far as possible, the magnetic dirt separator should be installed on the system backwater pipe. Before boiler or refrigeration unit, follow the direction of the water flow arrow on the connections. The magnetic dirt separator should be installed at the suction end of the pump, and the main body should be kept vertical.



## Hydraulic Characteristics



$$K_v = 2.59 \text{ (m}^3\text{/h)}$$