

AL-68-97

AL-68-97 is mainly installed in plumbing system of heat exchanger, which is used for hot water boiler or electric water heater operates at pressure 100 kPa or less.

This valve automatically discharge the water to protect the machinery, when pipe line pressure abnormally increase. Closed structure prevents fluid flow to the outside even when the diaphragm would break.



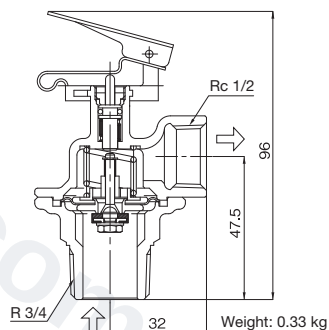
■Features

1. Large diaphragm at the pressure receiving section enables to blow out large capacity at first operation. It also makes the blow down pressure small and operate sharply.
2. Breather structure prevents the machinery and pipes from negative pressure problem.
3. Manual lever enables to check the operation and water level. It can also quickly discharge water inside the system.
4. Diaphragm is made of heat and water resistance synthetic rubber.

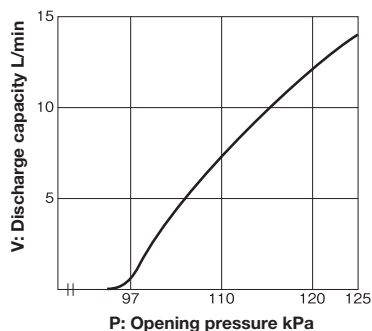
■Specifications

Application	Cold and hot water
Commence-to-blow pressure	97 $\pm$ 4 kPa
Reseating pressure	92 kPa or more
Breathing pressure	-12 kPa or less
Max. temperature	100°C
Body	Bronze
Diaphragm	Synthetic rubber (with fabric)
Connection	JIS R 3/4 x JIS Rc 1/2 screwed

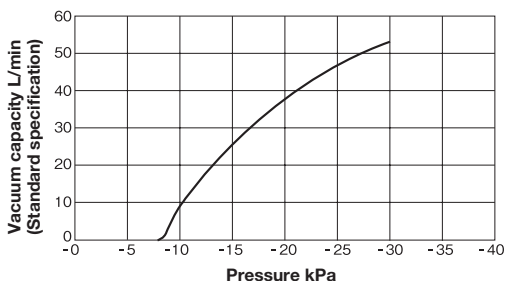
* Available with commence-to-blow pressure 190 kPa for AL-68-190.



Flow Characteristic Chart



Vacuum Characteristic Chart



* The value is not standard value but observed value.

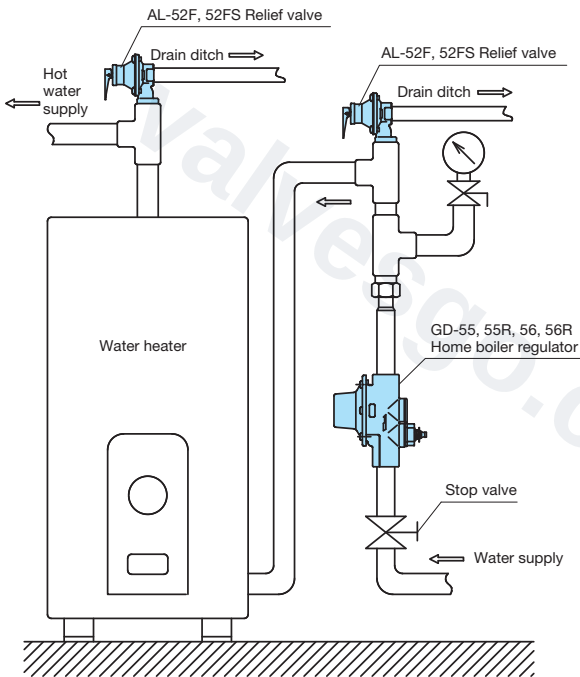
Maximum pressure of Water pressure reducing valve, Relief valve and Hot water heat exchanger

Unit: kPa

Water pressure reducing valve	Relief valve for hot water maker	Max. pressure of hot water heat exchanger
80	95, 97	100
85	97	
120		
150	190	200
170		

Attention Using the bold font valves to simple boiler (100 kPa) is illegal.

Piping Example



Precautions for Installation and Operation

1. Please be sure to remove foreign substances and scales from inside of the piping before connecting the product to the piping.
2. Install pipe at the relief valve outlet side and conduct to drain ditch. Also install the relief valve so as to check the operation visually.
3. Relief valve will be opened by lifting the lever horizontally. Please check the operation 1-2 times a month.
4. Styrofoam package can be used as heat insulating material to prevent freezing.