

GD-55R-80, GD-56R-80 GD-91R-80

GD-55R, 56R, 91R are home boiler regulators used for hot water heat exchanger in cold area. It has some functions of back-flow prevention, negative pressure operation, pressure balancing, automatic recovery drain tap and strainer.

■Features

1. The valve is pressure balance structure.
2. Pipes can be installed either horizontally or vertically.
3. Drain tap can operate by pushing and automatically recover to initial position.
4. GD-91R can easily installed by cap nut, since the outlet connection is parallel screw.
5. Valve and diaphragm are made of chlorine resistance synthetic rubber.



GD-55R-80



GD-56R-80



GD-91R-80

■Specifications

Application	Cold and hot water
Inlet pressure	100-750 kPa
Standard set pressure	80±6 kPa
Body	Bronze
Diaphragm	Synthetic rubber
Valve · Check valve	Synthetic rubber
Strainer	Screen: Stainless steel Frame: Synthetic resin
Strainer mesh	60 mesh
Maximum temperature	60°C
Connection	GD-55R · 56R: JIS Rc 3/4 GD-91R: JIS G 3/4
Install direction	Horizontal and vertical

* Standard set pressure 65 kPa (JIS approved) is available for GD-55R-65 and GD-56R-65.

* Standard set pressure 30-200 kPa is available for GD-55R and GD-56R.

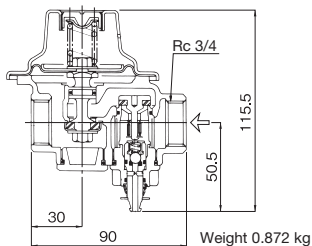
■Performance Chart

Open flow rate	30 L/min or more
Closing pressure of back-flow prevent function	3 kPa or less
Operate pressure of negative pressure operating function	Open: -55 kPa or less Close: 50 kPa or more

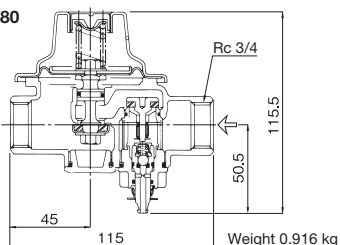
* Open flow rate indicates the outlet flow rate when the inlet pressure is maintained at 100kPa and the outlet side is open.

■Dimensions (mm) and Weights (kg)

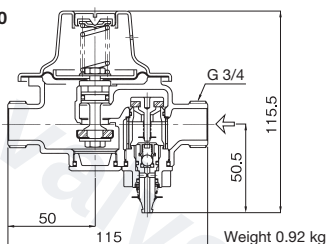
GD-55R-80



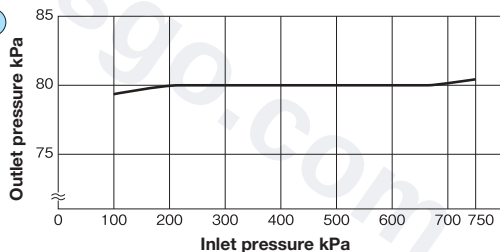
GD-56R-80



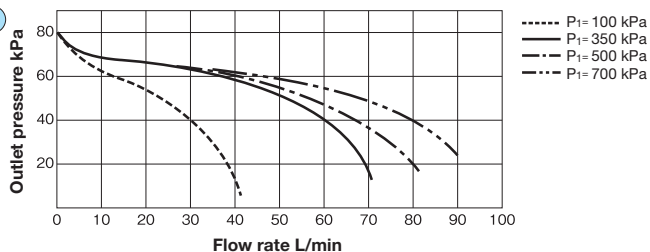
GD-91R-80



Pressure Characteristic Chart



Flow Characteristic Chart



■Precaution for Installation and Operation

1. Clean up inside the pipe and remove foreign substances before installing the home boiler regulator.
2. Water may leak from the negative pressure operating mechanism at the first time of water supplying. Please connect vinyl tube and conduct to drain.
3. In the case of horizontal piping follow to the label and install the product sideways, in order to reduce remain water when draining.

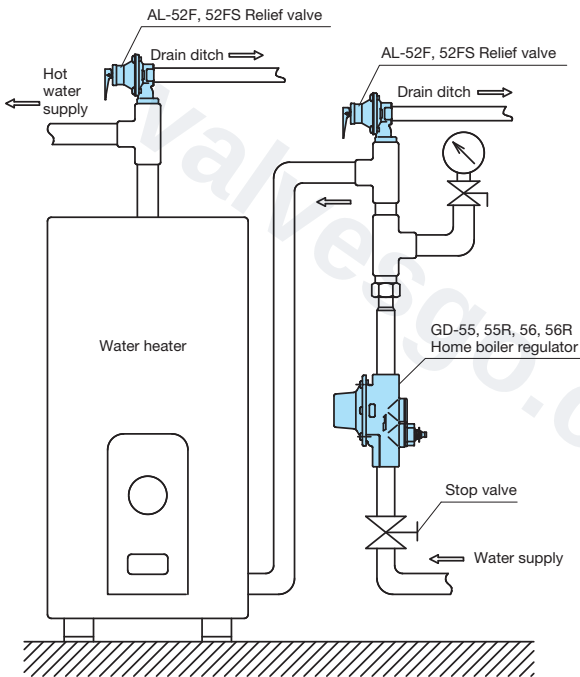
Maximum pressure of Water pressure reducing valve, Relief valve and Hot water heat exchanger

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.