

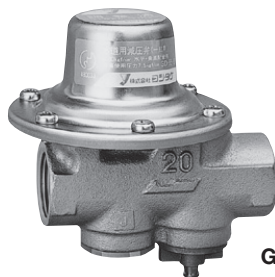
# GD-55-80, GD-56-80

Home boiler regulator is mainly used for water supply to hot water heat exchanger. It maintains a stable water supply pressure in order to prevent heat exchanger body from high pressure.

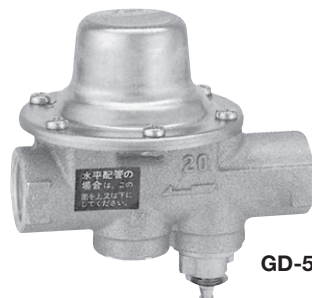
Not just pressure reducing but also has functions of back-flow prevention, negative pressure operation, pressure balancing and strainer.

## ■Features

1. The valve is pressure balance structure.
2. Pipes can be installed either horizontally or vertically.
3. Valve and diaphragm are made of chlorine resistance synthetic rubber.



GD-55-80



GD-56-80

## ■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<br>Frame: Synthetic resin |
| Strainer mesh         | 60 mesh                                           |
| Maximum temperature   | 60°C                                              |
| Connection            | JIS Rc screwed                                    |
| Install direction     | Horizontal and vertical                           |

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

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

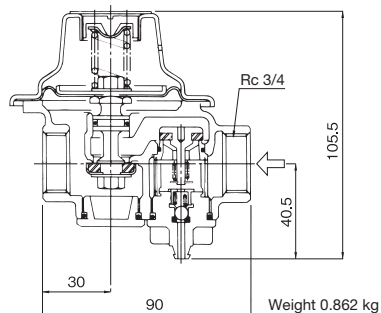
## ■Performance Chart

|                                                          |                                                |
|----------------------------------------------------------|------------------------------------------------|
| 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<br>Close: 50 kPa or more |

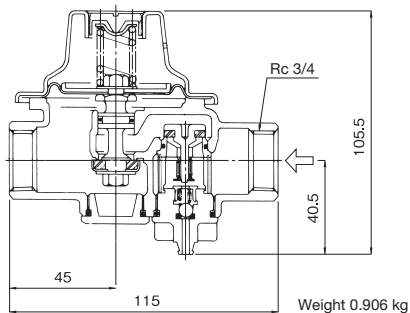
\* Open flow rate indicates the outlet flow rate when the inlet pressure is maintained at 100kPa and the outlet side is open.

## ■ Dimensions (mm) and Weights (kg)

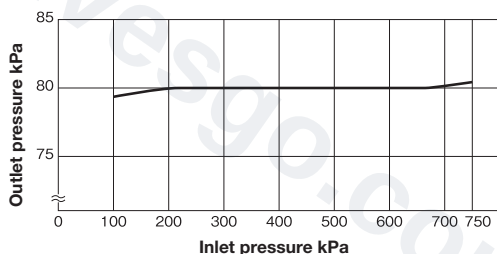
GD-55-80



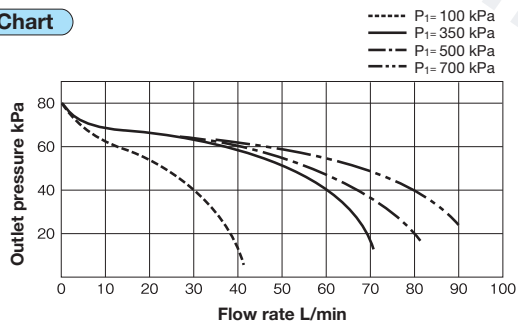
GD-56-80



## Pressure Characteristic Chart



## Flow Characteristic Chart



## ■ Precautions 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.

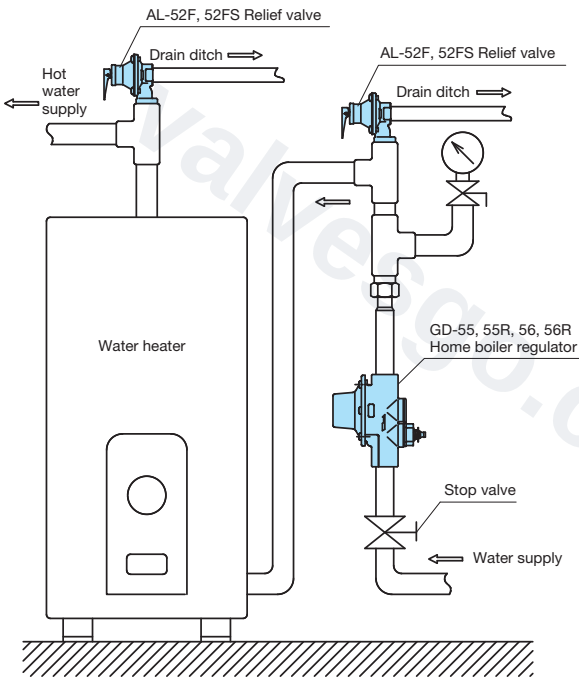
**Maximum pressure of Water pressure reducing valve, Relief valve and Hot water heat exchanger**

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.