

GD-15,15C

GD-15 is a low-noise pressure reducing valve for individual water supply to complex housing. It can highly maintain the stable reduced pressure against a variation of supply water pressure. Incorporated strainer and the compact and light weight design ensures easy piping. GD-15C built-in a check valve in order to prevent back-flow to the main water supplying pipe.



■Features

1. Removed noise. Can be used even late at night.
2. Water supplying pressure has already been adjusted at 0.2 MPa (standard setting), so no need to adjust at sight.
3. Pressure balance structure can keep the reduced pressure at a constant level without being affected by inlet pressure.
4. Incorporated strainer prevents foreign substances such as dirt, scale and sand from flowing to the outlet side.
5. Easy maintenance because strainer and strainer cap are integrated and detachable without any tool.
6. Closed structure prevents fluid flowing to the outside even when the diaphragm is damaged or broken.
7. Pipes can be installed either horizontally or vertically.

■Specifications

Nominal size		15A	20A
Application		City water	
Inlet pressure		0.1-1.0 MPa	
Reduced pressure		0.05-0.25 MPa [Standard setting: 0.2 MPa]	
Minimum differential pressure		0.03 MPa	
Maximum pressure reduction ratio		10:1	
Minimum adjustable flow rate		0.5 L/min	
Working temperature		5-60°C *	
Rated flow rate		25 L/min (40 L/min when differential pressure is 0.10 MPa or more)	30 L/min (50 L/min when differential pressure is 0.10 MPa or more)
Material	Body	Bronze (NPb-treated)	
	Spindle	Brass	
	Valve	Synthetic rubber	
	Diaphragm	EPDM (with fabric)	
Connection		JIS Rc screwed	
Outlet withstand pressure		1.2 times of maximum outlet pressure	

· The closing pressure of the check valve for GD-15C is 0.005 MPa or less.

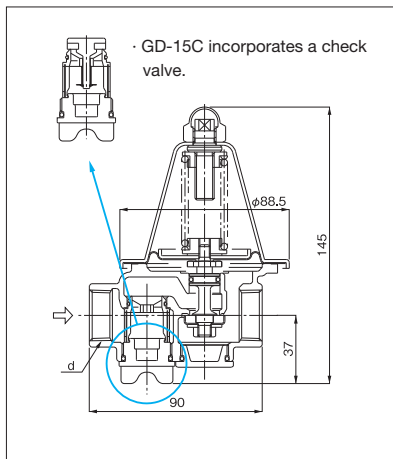
· The strainer is 40 mesh.

· An incombustible material is used for heat insulating material.

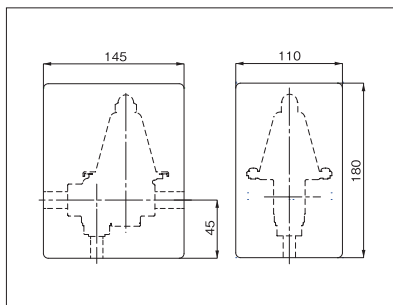
* Please contact us for using at hot water supplying side.

■ Dimensions (mm) and Weights (kg)

Nominal size	d	Weights
15A	Rc 1/2	0.87
20A	Rc 3/4	0.87

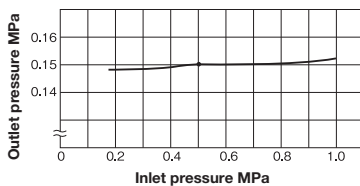


■ Dimensions of the Heat Insulating Material



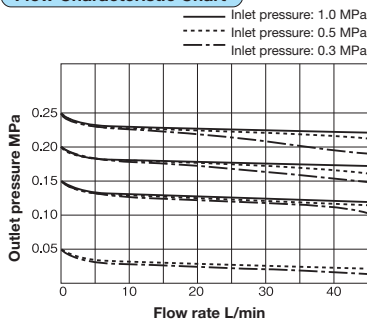
■ GD-15, 15C Data

Pressure Characteristic Chart

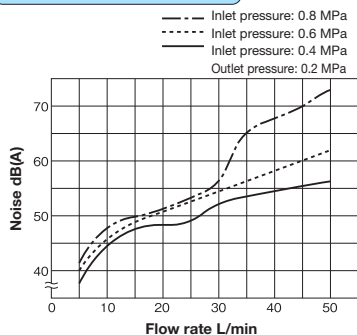


This chart shows variation in reduced pressure when the inlet pressure of 0.5 MPa is changed between 0.18 MPa and 1.0 MPa, while the reduced pressure is set at 0.15 MPa.

Flow Characteristic Chart



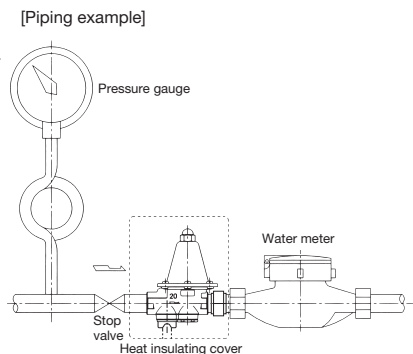
Noise Characteristic Chart



- Distance from the sample valve to the microphone: 15 cm
- Back ground noise: 35 db(A)

■Precautions During Installation

1. Install the valve so as to make the arrow on body points the same direction as flow.
2. Pipes can be installed either horizontally or vertically.
3. Maintenance will be easier by installing union joint in front and after the pressure reducing valve.
4. Please be sure to remove foreign substances and scales from inside of the piping before connecting the product to the piping.
5. Since the pressure has already been set, please do not touch the adjusting screw unless changing the set pressure. Please adjust pressure in the indicated range on the label, when changing the set pressure.
6. Please clean up the strainer regularly, because the water supply decrease as foreign substance accumulates inside the strainer. Especially foreign substance accumulates at the first plumbing, so check the strainer soon after start water supplying.
7. GD-15 needs 50 mm (GD-15C 55 mm) or more space for checking the strainer.
8. Caution when installing Polyvinyl chloride pipe
Synthetic rubber could be attacked by glue of polyvinyl chloride pipe. Please be careful not to flow glue in to the valve.
9. Recommend to use bronze or stainless nipple on the outlet side piping of the product, since corrosion of steel pipe edge will increase yearly. The rust may clog the sensing port of the product and decreases the water flow.



■How to Adjust the Pressure

When adjusting the pressure, please follow to the procedure as follows. Otherwise inappropriate adjustment may cause water hammer or hunting and break substantial parts.

1. Full open the inlet-side stop valve gradually, and slightly open the outlet-side stop valve so as to flow at small extent.
2. Remove the cap. Checking the pressure gauge, turn the adjusting screw to adjust the reduced pressure to a desired level.
 - The reduced pressure decreases when the adjusting screw is turned clockwise.
 - The reduced pressure increases when the adjusting screw is turned counterclockwise.
3. Full open the outlet-side stop valve gradually.
4. After reduced pressure adjustment, attach the cap.

