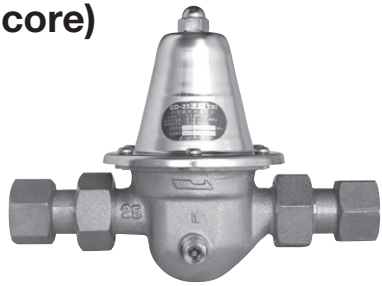
GD-25GJ-K,25GJ-L

JWWA approval

GD-25GJ-K (for general piping)
GD-25GJ-L (built-in pipe end core)



The GD-25GJ-K achieves low-noise water supply as pressure reducing valve for individual water supply to complex housing. Reduced pressure can be kept highly stable against a variation of supply water pressure.
Incorporated strainer and its compact and lightweight design ensure easy handling of piping.
GD-25GJ-L-type pressure reducing valve, it is provided with built-in anti-corrosion pipe end core for lining steel pipe.

■Features of the tube end anti-corrosion core

1. The pipe end core separates end face of lined steel pipe or threaded ends from the fluid to prevent potential corrosion.
2. Fittings such as bronze nipples or anti-corrosion sockets are not required. Plumbing work is simpler and more economical.
3. GD-25GJ-L is equipped with built-in core.
4. It can keep high air-tightness.

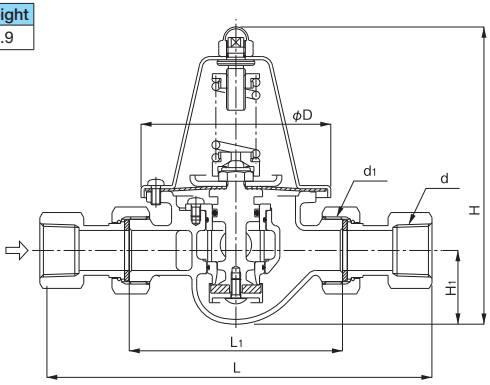
■Specifications

Model		GD-25GJ-K	GD-25GJ-L
Nominal size		25A	
Application		City water	
Inlet pressure		1.0 MPa or less	
Reduced pressure		(A) 0.05-0.10 MPa {Standard setting: 0.09 MPa}	
		(B) 0.10-0.22 MPa {Standard setting: 0.20 MPa}	
		(C) 0.20-0.35 MPa {Standard setting: 0.25 MPa}	
Minimum differential pressure		0.02 MPa	
Maximum pressure reduction ratio		10:1	
Minimum adjustable flow rate		0.5 L/min	
Fluid temperature		5-90°C	5-40°C
Rated flow rate		85 L/min (100 L/min when the differential pressure is 0.10 MPa or more)	
Material	Body	Cast bronze (NPb-treated)	
	Valve seat	Cast bronze (NPb-treated)	
	Spindle	Brass	
	Valve disc	Synthetic rubber	
	Diaphragm	Synthetic rubber	
Connection		JIS Rc 1 screwed (union joint)	
Pressure gauge joint		JIS Rc 1/8 screwed	
Outlet withstand pressure		1.2 times the maximum working pressure of outlet side.	

- The strainer is 40 mesh.
- Available with pressure gauge (type A or type D) as option (for 0.5 MPa).
- The accuracy of a pressure gauge is ±3% F.S.
- Connect pressure gauge (JIS R1/8) at the site.
- An incombustible material is used for heat insulating material.

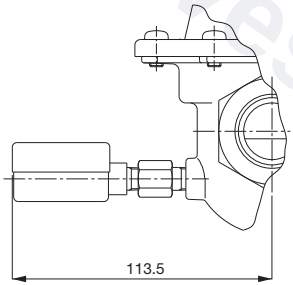
■Dimensions (mm) and Weights (kg)

d	d1	L	L1	H	H1	D	Weight
Rc 1	G 1-1/4	250	136	186	46	121	3.9

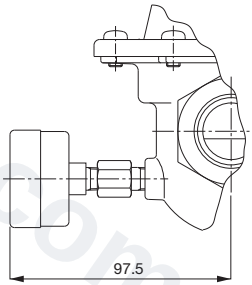


■Dimensions of the Valve Equipped with the Optional Pressure Gauge

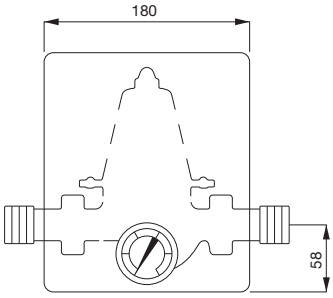
· Equipped with the pressure gauge Type A

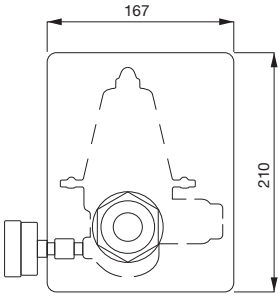


· Equipped with the pressure gauge Type D



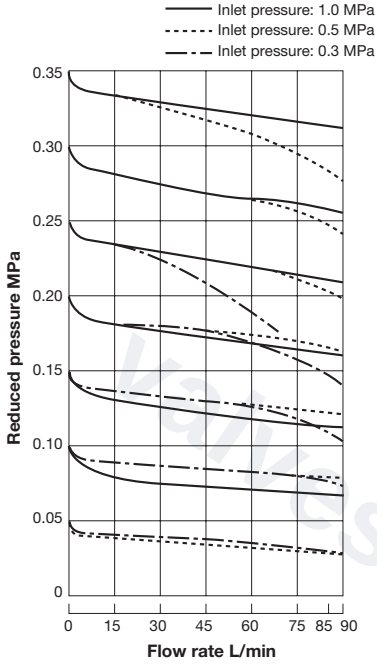
■Dimensions of the Heat Insulating Material



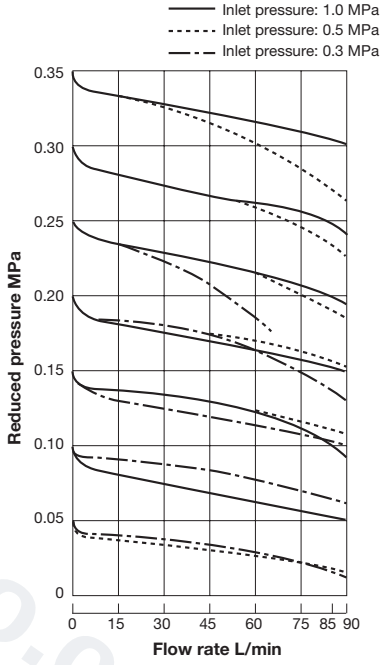


Flow Rate Characteristic Chart

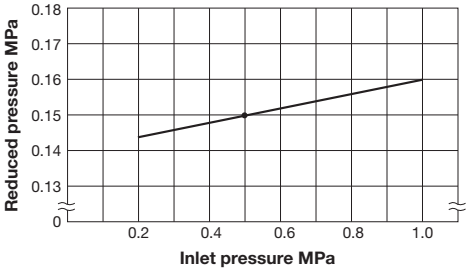
·GD-25GJ·GJ-K·GJ-L



·GD-25JC

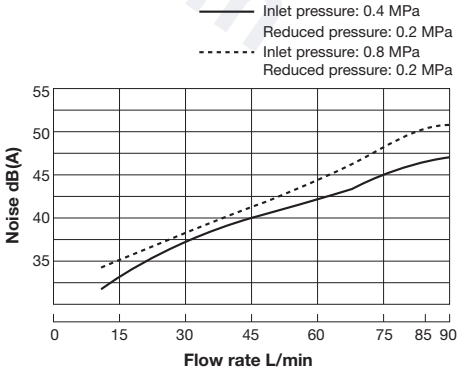


Pressure Characteristic Chart



This chart shows variation in reduced pressure when the inlet pressure of 0.5 MPa is changed between 0.2 MPa and 1.0 MPa while the reduced pressure is set at 0.15 MPa.

Noise Characteristic Chart



- Distance from the sample valve to the microphone: 15 cm
- Background noise: 30 dB (A)

■Notes on Installation

1. Horizontal Installation or vertical installation to the piping is available.
2. Install after eliminating the dusts, scale, and sands from the piping.
3. Do not touch the adjusting screw unnecessarily because setting pressure is adjusted to standard setting pressure.
4. 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 starting water supplying. Cleaning requires space of 135mm.
5. Caution on piping installation of a vinyl chloride tubing.
   If the adhesive agent for the vinyl chloride tubing flows in the product, synthetic rubber may be involved in, so please be careful when installing.
6. Use the polystyrene package as insulation material.
7. The belt of packing box is instruction manual. Please use it as a belt of heat insulating material after piping.
8. There are two types of pipe end anti-corrosion core: the vinyl chloride lining steel pipe and the polyethylene powder lining steel pipe for water supply. Please use according to the pipe type since the inner diameter of steel pipe is different respectively.
9. Pipe end anti-corrosion core has a risk of heat transformation by the high temperature. Please avoid high temperature due to work near fire or welding work.
10. Piping construction procedure (the pipe end anti-corrosion core)

① Check the pipe
Make sure that it is a suitable pipe type to the core. Please make sure use the qualified pipe. In the condition of using out of qualification, it may lead to the malfunction of anticorrosive such as incomplete of air-tightness, deformation of core etc.

② Cutting the pipe
Please cut it off at a right angle to the axis when cutting the pipe. Please use automatic metal sawing machine or circular sawing machine to cut the pipe.
Note) Please do not use high-speed grinding wheel cutting, pipe cutting, gas cutting and arc cutting. Please be sure to remove the oil adhering to the pipe.

③ Chamfering of the pipe
Please lightly chamfer the burr of the inner surface of the tube by usi pipe chamfering tool such as a scraper.

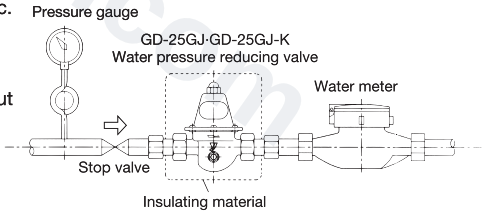
④ Threading of the pipe
Tap the screw according to JIS standard. Please check certainly at screw gauge because the screw such as out of the standard will cause damage to the core.

⑤ Application of the sealant
Please apply anti-corrosion sealant on the end and male thread.

⑥ Joint of the pipe
Joint of the pipes, please refer to the number of thread and length of the below table as a reference. It can be installed horizontally or vertically as optional. Please install after getting rid of foreign matter such as sand and scale inside the pipe.

Nominal size	Standard threaded number of thread	Standard threaded length (mm)	Standard tightening torque (N-m)
15A	5.5	10	39.2
20A	6	11	58.8
25A	5.5	13	98.0
32A	6.5	15	117.6
40A	6.5	15	147.0
50A	8	18.5	196.0

[Piping example]



■How to Adjust the Pressure

1. Screw the pressure gauge into the pressure gauge joint (Fig. 1).
2. Remove the cap. Checking the pressure gauge, turn the adjusting screw to adjust the reduced pressure to a desired level (Fig. 2).
   · The reduced pressure decreases when the adjusting screw is turned clockwise.
   · The reduced pressure increases when the adjusting screw is turned counterclockwise.
3. After reduced pressure adjustment, attach the cap.
4. Remove the pressure gauge.

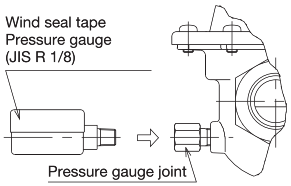


Fig. 1

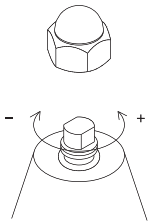


Fig. 2