

# GD-26G,27G

Direct type	Pilot type	Piston	Diaphragm
Bellows	Internal sensing	External sensing	Stainless steel
With handle	Built-in strainer	Low pressure	Remote
Valve leakage 0	Nylon		



GD-26G



GD-27G

## ■Features

1. Corrosion-resistant materials are used for wetted parts.
2. Reduced noise.
3. Pressure balance structure can keep the reduced pressure at a constant level without being affected by inlet pressure.
4. Maintenance and inspection can be conducted easily by disassembling simply from the upper side.
5. Compact and lightweight, easy to handle on piping.

## ■Specifications

Model	GD-26G	GD-27G
Application	Air, Other non-dangerous fluids *	
Inlet pressure	1.0 MPa or less	
Reduced pressure	(A) 0.05-0.35 MPa (B) 0.3-0.7 MPa	
Fluid temperature	5-90°C	
Minimum differential pressure	0.05 MPa	
Maximum pressure reduction ratio	10:1	
Material	Body	Bronze
	Valve seat	Bronze
	Valve disc	EPDM
	Diaphragm	EPDM
Connection	JIS Rc screwed	JIS 10K FF flanged

\* Please contact us when using for gas containing oil.

· A strainer (40 mesh) is incorporated in 15A to 50A.

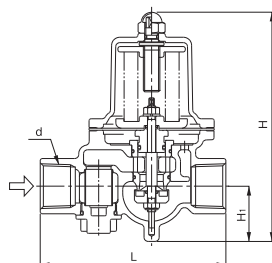
· 65A to 150A do not incorporate strainers.

· Pressure gauge connection port is JIS Rc 1/8.



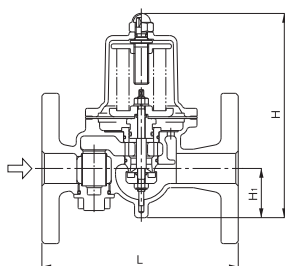
## ■ Dimensions (mm) and Weights (kg)

### · GD-26G

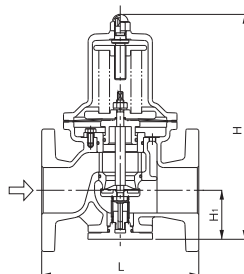


Nominal size	d	L	H	H <sub>1</sub>	Weight
15A	Rc 1/2	115	159.5	37.5	1.6
20A	Rc 3/4	120	159.5	38.5	1.7
25A	Rc 1	135	170	41	2.1
32A	Rc 1-1/4	180	224	57	4.0
40A	Rc 1-1/2	180	224	57	4.4
50A	Rc 2	200	239.5	61	6.5

### · GD-27G



25A-50A



65A-100A

Nominal size	L	H	H <sub>1</sub>	Weight
25A	160	170	41	5.1
32A	200	224	57	7.5
40A	200	224	57	7.7
50A	220	239.5	61	10.9
65A	220	329	77	20.0
80A	230	345	82	22.0
100A	270	412	94	33.0

# GD-26GS,27GS

Direct type	Pilot type	Piston	Diaphragm
Bellows	Internal sensing	External sensing	Stainless steel
With handle	Built-in strainer	Low pressure	Remote
Valve leakage 0	Nylon		



GD-26GS



GD-27GS

## ■Features

1. Corrosion-resistant materials are used for wetted parts.
2. Reduced noise.
3. Pressure balance structure can keep the reduced pressure at a constant level without being affected by inlet pressure.
4. Maintenance and inspection can be conducted easily by disassembling simply from the upper side.
5. Compact and lightweight, easy to handle on piping.

## ■Specifications

Model	GD-26GS	GD-27GS
Application	Air, Other non-dangerous fluids *	
Inlet pressure	1.0 MPa or less	
Reduced pressure	(A) 0.05-0.35 MPa (B) 0.3-0.7 MPa	
Application temperature	5-90°C	
Minimum differential pressure	0.05 MPa	
Maximum pressure reduction ratio	10:1	
Material	Body	Cast stainless steel
	Valve seat	Cast stainless steel
	Valve disc	EPDM
	Diaphragm	EPDM
Connection	JIS Rc screwed	JIS 10K FF flanged

\* Please contact us when using for gas containing oil

· A strainer (40 mesh) is incorporated in 15A to 50A.

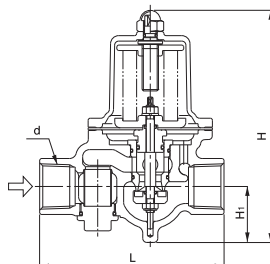
· Pressure gauge connection port is JIS Rc 1/4.  
(Select from  $\phi 42$ -MAX 1.0 MPa, 0.4 MPa, and 0.2 MPa).

· Available with FKM.



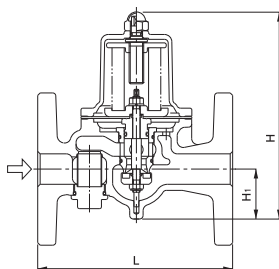
## ■ Dimensions (mm) and Weights (kg)

### · GD-26GS

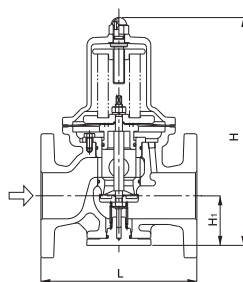


Nominal size	d	L	H	H <sub>1</sub>	Weight
20A	Rc 3/4	135	170	41	2.2
25A	Rc 1	135	170	41	2.2
32A	Rc 1-1/4	180	224	57	4.7
40A	Rc 1-1/2	180	224	57	4.5
50A	Rc 2	200	239.5	61	6.5

### · GD-27GS



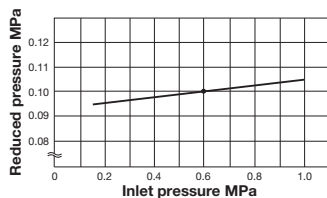
25A-50A



65A-100A

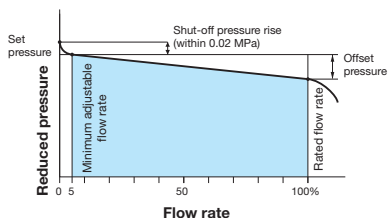
Nominal size	L	H	H <sub>1</sub>	Weight
20A	160	170	41	3.9
25A	160	170	41	4.8
32A	200	224	57	8.0
40A	200	224	57	8.3
50A	220	239.5	61	10.8
65A	220	329	77	20.6
80A	230	345	82	22.0
100A	270	412	94	34.5

Pressure Characteristic Chart



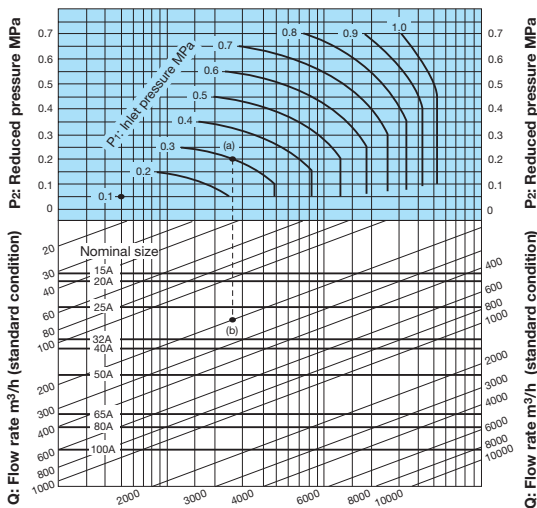
This chart shows variation in reduced pressure when the inlet pressure of 0.6 MPa is changed between 0.15 MPa and 1.0 MPa while the reduced pressure is set at 0.1 MPa.

Flow Characteristic Chart



Nominal size	Pressure range	Offset pressure
15-100A	(A) 0.05-0.35 MPa	Within 0.05 MPa
	(B) 0.3-0.7 MPa	Within 0.10 MPa

Nominal Sizes Selection Chart

**[Example]**

When selecting the nominal size of a pressure reducing valve whose inlet pressure ( $P_1$ ), reduced pressure ( $P_2$ ), and flow rate are 0.3 MPa, 0.2 MPa, and 200  $\text{m}^3/\text{h}$  (standard condition), respectively, first find intersection point (a) of the inlet pressure ( $P_1$ ) of 0.3 MPa and the reduced pressure ( $P_2$ ) of 0.2 MPa. Trace down vertically from this intersection point to find intersection point (b) with the flow rate of 200  $\text{m}^3/\text{h}$  (standard condition). Since intersection point (b) lies between nominal sizes 25A and 32A, select the larger one, 32A.

\* Set the safety factor at 80 to 90%.

# GP-1000T

Direct type	<b>Pilot type</b>	<b>Piston</b>	Diaphragm
Bellows	<b>Internal sensing</b>	External sensing	Stainless steel
With handle	<b>Built-in strainer</b>	Low pressure	<b>Remote</b>
<b>Valve leakage 0</b>	Nylon		



GP-1000T



GP-1010T



GP-1200T

## ■Features

1. Far superior to conventional pressure reducing valve in workability and durability.
2. Free of valve seat leakage. Improved workability as a result of refinement of sliding parts.
3. Simple and robust internal structure.

## ■Specifications

Model	GP-1000T	GP-1010T	GP-1200T	GP-1210T
Application	Air, Other non-dangerous fluids			
Inlet pressure	0.1-1.0 MPa			
Reduced pressure	0.05-0.9 MPa			
	90% or less of inlet pressure (gauge pressure)			
Minimum differential pressure	0.05 MPa			
Maximum pressure reduction ratio	20:1			
Application temperature	5-80°C			
Valve seat leakage	None			
Material	Body	Ductile cast iron		
	Valve	Brass (NBR incorporated)		
	Valve seat	Stainless steel		
	Piston, cylinder	Brass or bronze		
	Diaphragm	Stainless steel		
Connection	JIS 10K FF flanged	JIS Rc screwed	JIS 10K FF flanged	JIS Rc screwed

· Available with stainless steel made trim parts (piston, cylinder and valve) as GP-□□□□TS.