GD-41G,GD-43G

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		

■Features

- Space saving and resource saving are achieved (used materials are shown on the body and lower cap, thus separate collection of parts for resource recycling is easy).
- Stainless steel (SCS14A and SUS316) is used for wetted parts. improving corrosion resistance.
- 3. PTFE covers diaphragm contact surface to fluid, making the diaphragm less liable to deteriorate and highly durable.
- 4. Special fluorine-contained rubber parts are resistant to corrosion.
- Pressure balance structure can keep the reduced pressure at a constant level without being affected by inlet pressure.
- Can be applied to piping washing, system washing, sterilization washing and steam for sterilization.
- 7. Horizontal or vertical installation is available.



GD-41G



GD-43G

■Specifications

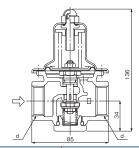
	Mandal	00,400,40			
	Model	GD-41G GD-43G-10 GD-43G-20			
Application		Air, Carbon dioxide gas, Nitrogen gas			
		Steam for washing or sterilization			
Inl	let pressure	0.07-2.0 MPa *1 (0.2 MPa or less for steam for washing or sterilization)			
Reduced pressure		(A) Yellow spring: 0.02-0.1 MPa <standard 0.05="" mpa="" setting:=""></standard>			
		(B) Red spring: 0.1-0.25 MPa <standard 0.1="" mpa="" setting:=""></standard>			
		(C) Black spring: 0.25-0.5 MPa <standard 0.3="" mpa="" setting:=""></standard>			
Minimum	differential pressure	0.05 MPa			
Maximum p	pressure reduction ratio	20:1			
Fluid	d temperature	5-90°C (The maximum temperature of steam for washing or sterilization is 130°C. Allow an interval of at least four hours between steam		I of at least four hours between steam flows.)	
	Body	Cast Stainless steel (SCS14A)			
Material	Valve disc	Special synthetic rubber (special FKM)			
	Diaphragm	Heat-resistant synthetic rubber and PTFE (PTFE applied to wetted face)			
C	Connection	JIS Rc screwed JIS 10K FF flanged JIS 20K RF flanged			

- *1 The inlet pressure of GD-43G-10 is 0.07 to 1.0 MPa.
- · If using for washing steam or sterilization steam, be sure that maximum temperature is 130°C and avoid continuous use for more than 30 minutes.
- · Available with pressure gauge (JIS Rc 1/8 screwed).



■Dimensions (mm) and Weights (kg)

· GD-41G



_	ψου
* All dis	

485

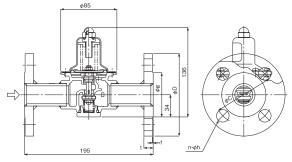
Nominal size	d	Weight		
15A	Rc 1/2	1.2		
20Δ	Bc 3/4	1.1		

Rc 1

* All dimensions are same except connection size.

· GD-43G

25A



1.0

* All dimensions are same except flange size.

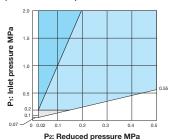
(mm)

Nominal Size		JIS 20KRF flange				Majorha (Ico)		
Nominai Size	D	С	g	t	f	n-h	Weight (kg)	
15A	95	70	51	14 (12)	1	4-15	2.8 (2.6)	
20A	100	75	56	16 (14)	1	4-15	3.0 (2.9)	
25A	125	90	67	16 (14)	1	4-19	4.0 (3.7)	

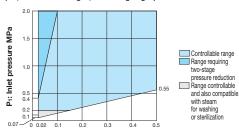
^{*} The values in parentheses are the weights of the GD-43G-10.

Specifications Selection Chart

(Cold and hot water)

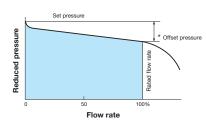


(Air, carbon dioxide gas, and nitrogen gas)



P2: Reduced pressure MPa

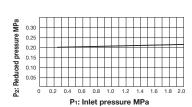
Flow Characteristic Chart



* Offset pressure

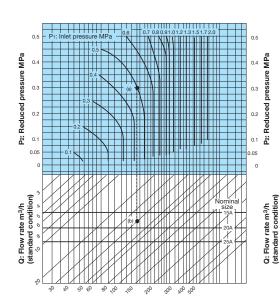
Set pressure	Offset pressure		
0.2 MPa or less	Within 0.05 MPa		
More than 0.2 MPa	Within 0.08 MPa		

Pressure Characteristic Chart



This chart shows variation in reduced pressure when the inlet pressure of 0.25 MPa is changed to 2.0 MPa while the reduced pressure is set at 0.20 MPa.

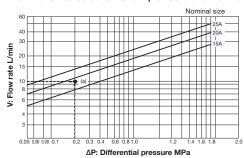
■Nominal Sizes Selection Chart (For Air)



[Example]

When selecting the nominal size of a pressure reducing valve whose inlet pressure (P1), reduced pressure (P2), and flow rate are 0.5 MPa, 0.3 MPa, and 40 m3/h (standard condition), respectively, first find intersection point (a) of the inlet pressure of 0.5 MPa and the reduced pressure of 0.3 MPa. Trace down vertically from this intersection point to find intersection point (b) with the flow rate of 40 m³/h (standard condition). Since intersection point (b) lies between nominal sizes 15A and 20A, select the larger one, 20A. * Set the safety factor at 80 to 90%.

■Nominal Sizes Selection Chart (For Cold and Hot Water)



[Example]

When selecting the nominal size of a pressure reducing valve whose inlet pressure (P1), reduced pressure (P2), and flow rate are 0.5 MPa. 0.3 MPa. and 10 L/min, respectively, trace up vertically from the 0.2 MPa point of differential pressure before and after the valve to find intersection point (a) with the flow rate of 10 L/min. Since intersection point (a) is between nominal sizes 15A and 20A, select the larger one, 20A.