GD-41,43,41N,43N

Direct type	Pilot type	Piston	Diaphragm
Bellows	Internal sensing	External sensing	Stainless steel
With handle	Built-in strainer	Low pressure	Remote
Valve leakage 0	JWWA	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).
- 2. Stainless steel (SCS14A and SUS316) is used for wetted parts, improving corrosion resistance.
- 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.
- Closed structure keeps fluid from flowing to outside even if the diaphragm is damaged or broken.
- 7. Safe fluorine grease is applied to O-ring.
- 8. Can be applied to piping washing, system washing, sterilization washing and steam for sterilization.



JWWA approval (GD-41N, GD-43N)

GD-41, 41N



GD-43, 43N

Specifications

	Model	GD-41	GD-43-10	GD-43-20	GD-41N	GD-43N-10	GD-43N-20
	Application	Cold and hot water					
, <i>P</i>	Application	Steam for washing or sterilization					
Inl	Inlet pressure 0.07-2.0 MPa (0.2 MPa or less for steam for washing or sterilization) *2					2	
(A) Yellow spring: 0.02-0.1 MPa <standard 0.05="" mpa="" setting:=""></standard>							
Reduced pressure		(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	Minimum differential pressure 0.05 MPa						
Maximum pressure reduction ratio		Cold and hot water: 10:1					
Eluiz	d tomporatura	5-90°C					
Fluid temperature		(The maximum temperature of steam for washing or sterilization is 130°C. Allow an interval 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	JIS Rc screwed	JIS 10K FF flanged	JIS 20K RF flanged

*1 Available with JIS 5K and JIS 16K for GD-43 and GD-43N.

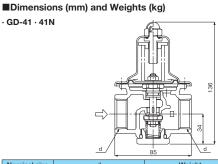
 $^{\ast}2$ The inlet pressure of the GD-43-10 and GD-43N-10 is 0.07 to 1.0 MPa.

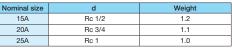
 \cdot If using for washing steam or sterilization steam, be sure that maximum temperature is 130°C and avoid continuous use for more than 30 minutes.

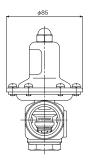
· Available with pressure gauge (JIS Rc 1/8 screwed).



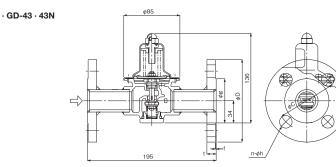
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* All dimensions are same except connection size.



* All dimensions are same except flange size.

						(mm)	
Size	JIS 20KRF flange						Mainht (ka)
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 parenthesis are the weights of the GD-43-10, GD-43N-10.

Range requiring

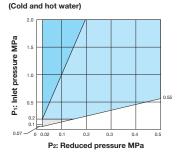
and also compatible

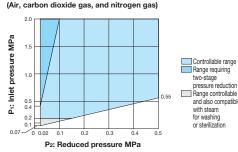
two-stage pressure reduction

with steam for washing

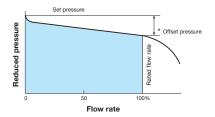
or sterilization

Specifications Selection Chart





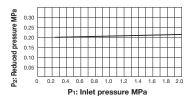
Flow Characteristic Chart



,	Offset pressure
1	Set pressu

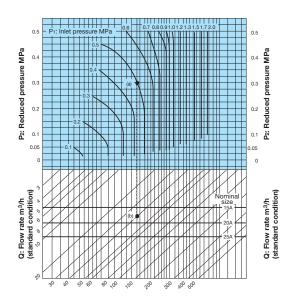
	Set pressure	Offset pressure		
0.2 MPa or less		Within 0.05 MPa		
	More than 0.2 MPa	Within 0.08 MPa		

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.

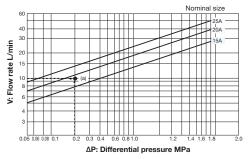
Nominal Sizes Selection Chart (For Air)



[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.

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