



You can believe in.

WATER PRESSURE REDUCING VALVE

GD-24·24B



GD-24 water pressure reducing valve can be used as a pressure control unit in water supply systems of general residential housing, high-rise buildings, industrial plant, and factory equipment. It can also be used to provide stable water pressure in high-rise apartment units, and for hilly districts where each house requires an individual water supply system. Trouble free flow control solutions are achieved through the use of a stainless steel valve seat and a suspensionary fitting in the drive mechanism.

Features

- (1) The use of a suspisionary fitting in this direct-acting type pressure reducing valve eliminates sliding parts, such as O-rings, etc., and provides longer service life.
- (2) Bronze body construction prevents rusty water problems.
- (3) A stainless steel valve seat reduces wear and increases durability.
- (4) A sealed construction prevents external leakage even if the diaphragm should break.
- (5) The valve can be mounted in any position (facing up or down).

Specification

Model	GD-24	GD-24B
Application	Hot or cold water	Hot, cold, or sea water
Connection	JIS Rc (PT Screwed)	
Inlet pressure	0.2~1.6 MPa {2.0~16 kgf/cm ² G}	
Outlet pressure	0.05~0.55 MPa {0.5~5.5 kgf/cm ² G}	
Min. differential pressure	0.05 MPa {0.5 kgf/cm ² }	
Temperature	5~80 °C*	
Material		
Body	Bronze	
Valve	Brass	Bronze
Valve disc	Urethane rubber	
Seat		Stainless steel
Diaphragm	NBR	
Cap	Brass	Bronze
Plug		Stainless steel



Options

Suffix:

G - D-type 1.0MPa {10kgf/cm²G} pressure gauge (R 1/8)

S - Strainer (SY-24, 60 mesh as a standard)

GS - Gauge and strainer

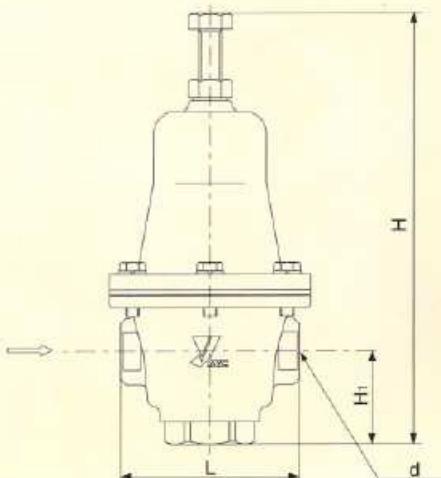
Other

*Diaphragm: Viton (FKM) for hot water, Max. temperature 90°C (194 °F)

Dimensions & Weight

(mm)

Size	d	L	H	H ₁	Weight(kg)
15A	Rc 1/2	80	193	42	1.8
20A	Rc 3/4	90	210	45	2.4
25A	Rc 1	100	230	50	3.3
32A	Rc 1 1/4	120	265	60	4.7
40A	Rc 1 1/2	150	315	62	8.2
50A	Rc 2	185	365	73	14.3



■ Formula for nominal size selection

● Cv value calculation formula

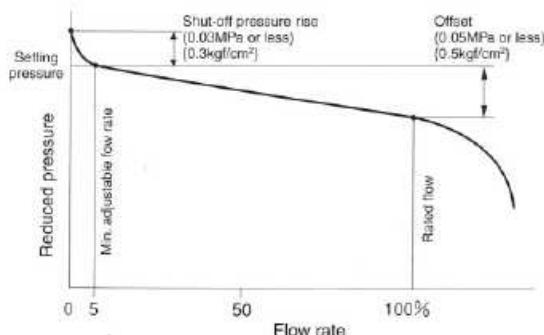
$$Cv = \frac{0.365V \sqrt{G}}{\sqrt{\Delta P}}$$

P1 : Inlet pressure [MPa · A]
 P2 : Reduced pressure [MPa · A]
 ΔP : $P1 - P2$ [MPa]
 G : Specific gravity (relative to water)
 V : Maximum flow rate [m³/h]
 Cv : Cv value of the nominal size

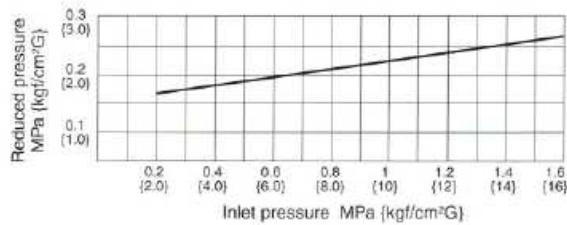
● Cv value

15A	20A	25A	32A	40A	50A
1.5	1.9	3.0	4.0	7.0	10.0

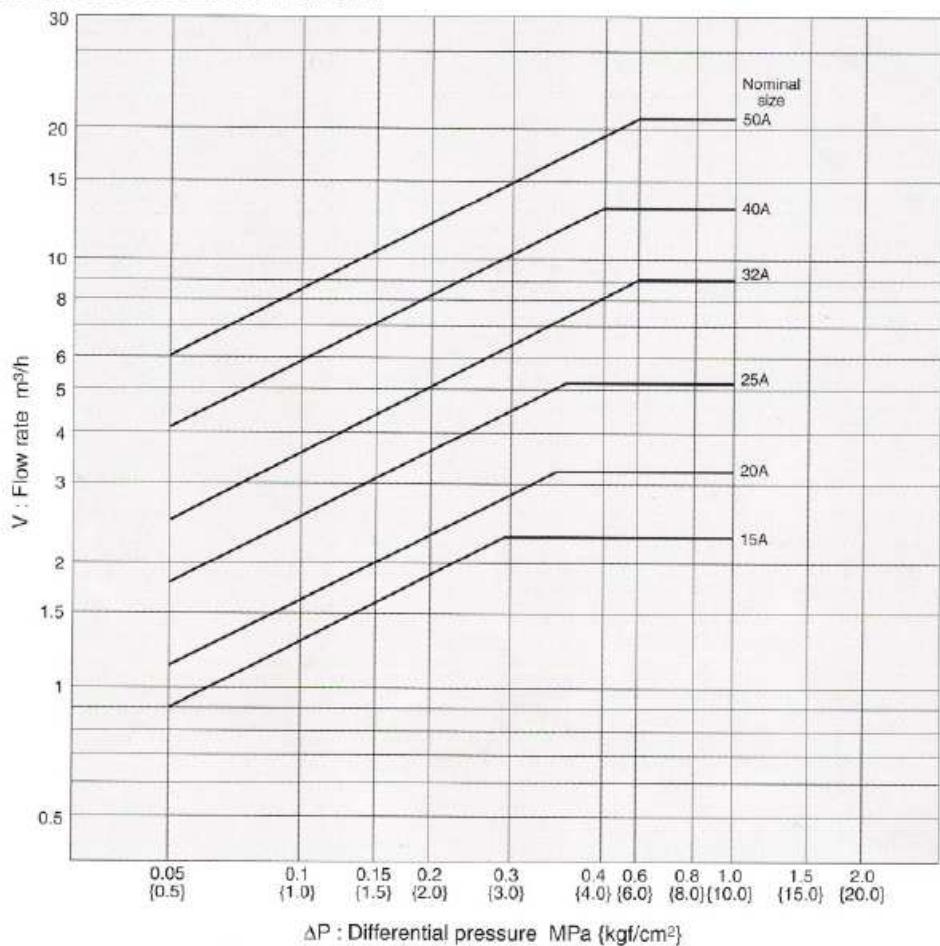
■ Flow rate characteristics chart



■ Pressure characteristics chart



■ Nominal size selection chart



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