

WATER PRESSURE REDUCING VALVE

GD-24



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 suspesionary fitting in the drive mechanism.

Features

- (1) The use of a suspesionary 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

Ар	plication	Hot or cold 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}		
Mir	n. differential pressure	0.05 MPa {0.5 kgf/cm²}		
Temperature		5~80 ℃*		
	Body	Bronze		
	Valve	Brass		
<u>a</u>	Valve disc	Urethane rubber		
Material	Seat	Stainless steel		
Ž	Diaphragm	NBR		
	Сар	Brass		
	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)

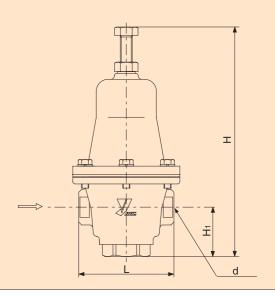
GS - Gauge and strainer

Other

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

Dimensions & Weight

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





(mm)

Formula for nominal size selection

Cv value calculation formula

$$Cv = \frac{0.365V \sqrt[4]{G}}{\sqrt{\Delta P}}$$

P1 : Inlet pressure (MPa · A)
P2 : Reduced pressure (MPa · A)
ΔP : P1-P2 (MPa)

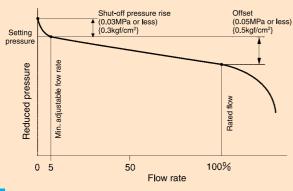
G : Specific gravity (relative to water)

V : Maximum flow rate (m³/h)
Cv : Cv value of the nominal size

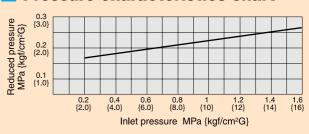
Cv value

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

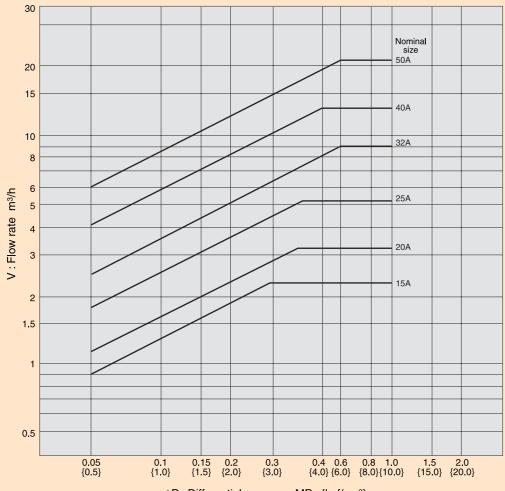
Flow rate characteristics chart



Pressure characteristics chart



Nominal size selection chart



ΔP : Differential pressure MPa {kgf/cm²}

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