VENN - RD-14W, RD-14H, RD-14CN type pressure reducing valve (for water, hot water, air, and oil)

Direct operated pressure reducing valve for water, liquids, or air with small or large flow and small range of pressure change. Ideal for pressure control of roof water tank, water pumping system, or boiler direct linking water supply system for tall/medium height buildings or in industrial applications, for controlling pressure of fuel, lubricants and air.

RD-14W,14H

RD-14CN

Features

- Pressure balanced structure with small charge.
- One-way (upper side) dissembling allows easy maintenance.
- RD-14CN Type has nylon coating, which can prevent occurrence of rusty water.

SPECIFICATIONS

Type	Standard	Hot water & oil	Nylon coating
Model name	RD-14W	RD-14H	RD-14CN
Code name	RD14W-B□	RD14H-B□	RD14CN-B□
	L,M or H for adjustable secondary pressure is required in □		
Applicable fluid	Water, hot water & air	Oils not corrosive, kerosene, lubricant, heavy oil A&B, & hot water	Water & hotwater
Fluid temperature	5~60°C	5~90°C	5~60°C
Fluid viscosity	-	Max. 800cSt	-
Applicable primary pressure	Max. 1.0 Mpa		
Adjustable secondary pressure	Size 15~80mm L:0.05~0.035MPa,M(For RD-14N Type is H): 0.3~0.7MPA Size 100~150mm L:0.05~0.035MPa,M(For RD-14N Type is H): 0.3~0.5MPA		
Maximun reducing rate	10:01		
Minimum pressure differential across the disc	0.05MPa		
Minimum adjustable flow	Water:2~5 L /min Air:5~10m³/h(Standard state)	2~5 L /min	
Leakage allowance	Nil (Confirm at pressure gauge)		
End connection	Flanged JIS 10KRF		
Materials	Body(Cast iron), Trim(Cast bronze), Diaphragm&disc(Synthetic rubber)		
Painting or coating for body	Interior:Epoxy resin	Interior:Rust proof oil	Nylon 11 coating
Valve body pressure test	Hydraulic 1.75MPa		

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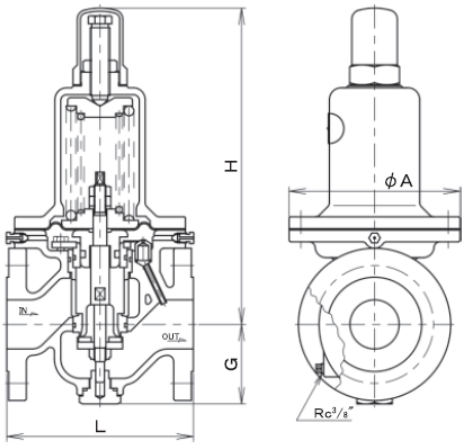
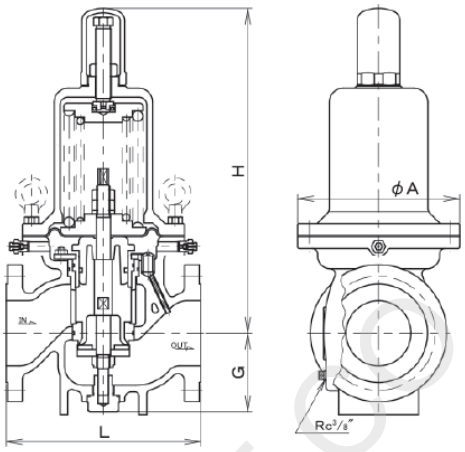
CONSTRUCTION



Size:15~80mm



Size:100~150mm

DIMENSION

Size	A	L	G	H	Cv value	Mass(kg)
15(½″)	156	142	65	256	1	10
20(¾″)	160	142	65	256	2	10
25(1″)	160	142	65	257	3.5	10.5
32(1¼″)	180	174	76	332	5.5	17
40(1½″)	180	174	76	333	8	17.5
50(2″)	190	174	81	341	14	19
65(2½″)	230	218	95	434	22	37
80(3″)	250	218	100	439	32	40
100(4″)	300	250	125	490	48	67
125(5″)	370	340	150	640	75	112
150(6″)	400	340	165	655	108	150

Flange code JIS 10KRF

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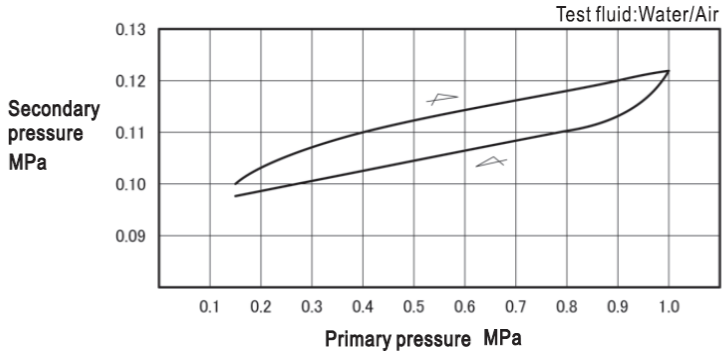
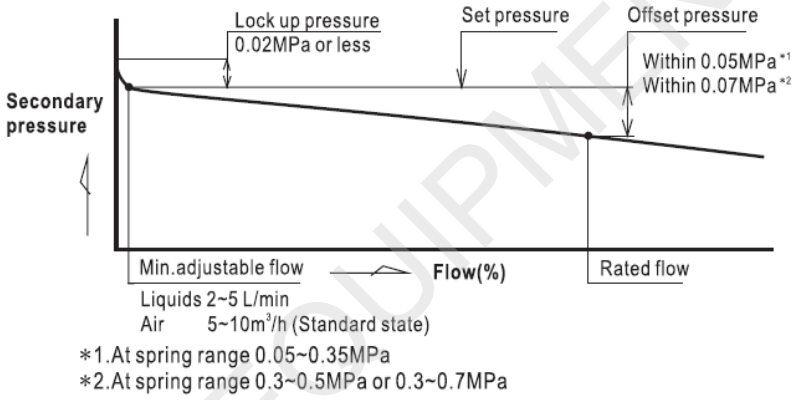
Pressure Characteristics



The above chart shows the change of secondary pressure when primary pressure was changed to 0.15MPa, 1.0MPa and 0.15MPa at primary pressure being 0.15MPa and secondary pressure being set at 0.1MPa.

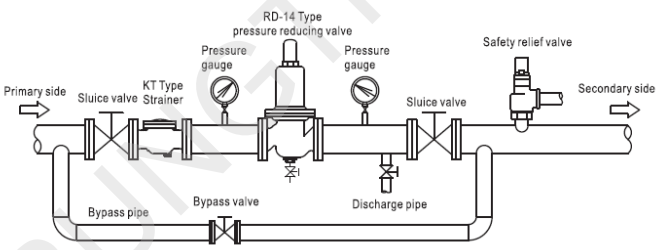
Flow Characteristics



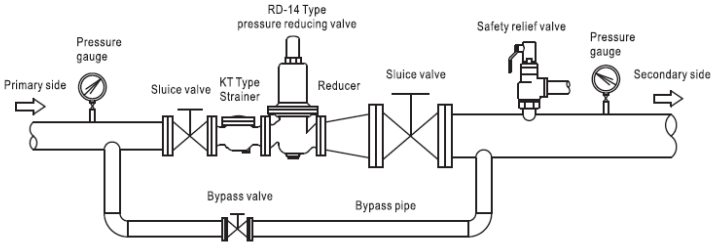
∗1.At spring range 0.05~0.35MPa
∗2.At spring range 0.3~0.5MPa or 0.3~0.7MPa

Piping Example

Piping Illustration (for Liquids)



Piping Illustration (for Air)



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