

RP-7 Type Pressure Reducing Valve (for Steam)



Used in **Food Processing** **Sterilizing** **Cleaning Equipments** for Clean Steam

RP-7 Type is a compact, pilot-operated type pressure reducing valve for application on equipments or devices with comparatively small flow.

It is small, light-duty (MAX.50% according to our data) and can be installed as a part of a machine.

FEATURES

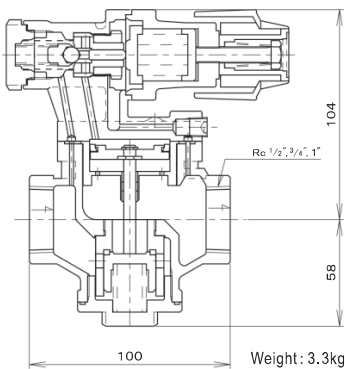
- Piston guide and special seal ring allow stable control over small flow and rated flow of fluid.
- Easy pressure adjustment by manual handle with automatic lock mechanism.
- Compact design.

SPECIFICATIONS

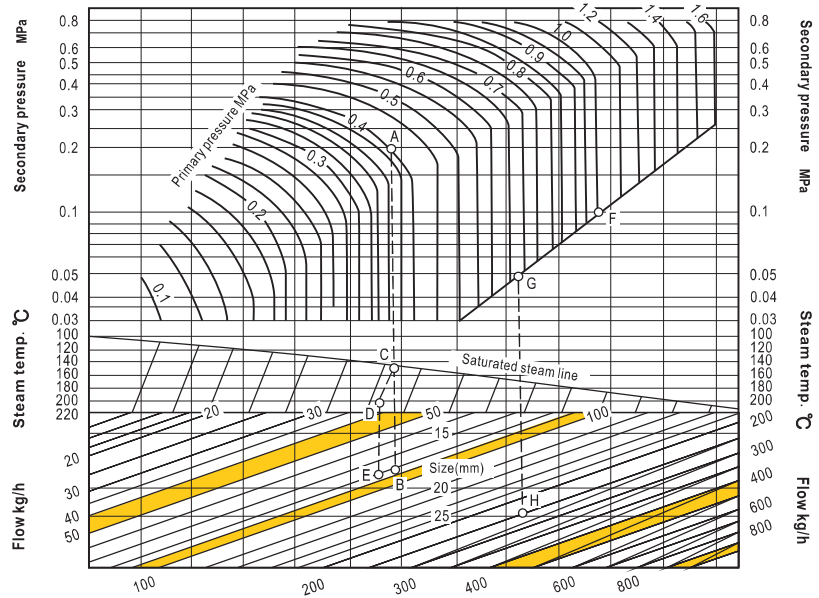
Model name	RP-7	
	RP7-F □	RP7-J □
Code name	※ L(low pressure.) or H (high pressure.) for adjustable secondary pressure is required in □ .	
Size	15 - 20 - 25(1/2" - 3/4" - 1")	
Applicable fluid	Steam	
Fluid temperature	Max. 220 °C	
Applicable primary pressure	Max. 1.6MPa	
Adjustable secondary pressure	L:0.03~0.4MPa,H:0.3~0.8MPa	
Maximum reducing rate	20: 1	
Minimum pressure differential across the disc	0.05MPa	
Lock up pressure	Max.0.02MPa	
Offset pressure	Within 0.02MPa(Adjustable secondary pressure 0.03~0.035MPa) Within 0.03MPa(Adjustable secondary pressure over 0.035~0.07MPa) Within 0.05MPa(Adjustable secondary pressure over 0.07~0.8MPa)	
Leakage allowance	Less than 0.05% of rated flow	
Cv value	Size 15mm:1, Size 20mm:2, Size 25mm:3	
End connection	Screwed JIS Rc	
Materials	Body	Cast bronze
	Disc & seat	Stainless steel
	Piston & cylinder	Brass&Cast bronze Stainless steel
Valve body pressure test	Hydraulic 2.4MPa	



CONSTRUCTION



NOMINAL DIAMETER SELECTION CHART (for Steam)



Example 1:
 Primary pressure: 0.4MPa (saturated steam)
 Secondary pressure: 0.2MPa
 Flow: 80 kg/h
 At the above conditions, the nominal diameter should be size 20 mm.
 At the same conditions and at 200°C, the nominal diameter is also size 20 mm.

Example 2:
 Primary pressure: 1.0MPa (saturated steam)
 Secondary pressure: 0.05MPa
 Flow: 250 kg/h
 At the above conditions, the nominal diameter should be size 25 mm.