

for Water

YPR-2A/2AK (KC marked), ST Type Pressure Reducing Valve

This is a direct operating pressure reducing valve for cold and hot water that can be used for small to large flows, with a small pressure fluctuation range. Used for construction facilities, this valve is employed for pressure control of each level's water supplied by an elevated water tank of a medium or high-rise building; as well as for pressure control of feed water from a directly-coupled pump and other boiler feed water.

01



Flanged type



Screwed type



YPR-ST

Features

- Outstanding functions for controlling the pressure of water supplied by a building's elevated water tank to each floor.
- Easy to handle : small size and light weight.
- Two ways to install : horizontally or vertically.
- A constant pressure level with only a single adjustment.
- Wide flow range ability : an outstanding level of minimum adjustable flow & adjustable and stable in a wide flow range.
- All parts can be disassembled through the top of the valve : complete repairs even in limited spaces is possible.
- Built-in spring-type orifice that prevents a water hammering action.
- Linear flow pass-through method, which removes noise during operation.

Specifications

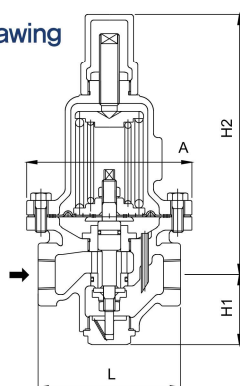
Applicable fluid		Water	
Primary pressure		Maximum 1.0MPa	
Secondary pressure regulating range		Outer spring	0.05~0.35MPa
		Inner+outer spring	0.3~0.69MPa
Maximum pressure reduction ratio		10:1	
Minimum differential pressure in the inlet and outlet side of the valve		0.05MPa	
Minimum adjustable flow		water 2~5 ℓ /min	
Fluid temperature		Maximum 5~80°C	
End connection	size	15~25A	32~150A
	Inlet	KS PT SCREW	KS 10K FF FLANGE
	Outlet	KS PT SCREW	KS 10K FF FLANGE
Materials	Body	GC200	
	Disc, seat	NBR, CAC406	
	Diaphragm	NBR	
Hydraulic test pressure		1.5MPa	

- ▶ Multi-step pressure reduction is needed when the cavitation index is 0.5 or lower.
- ▶ Strainer (over 40 Mesh) installation is required to ahead inlet when valve installing.
- ▶ KC marked products are order made

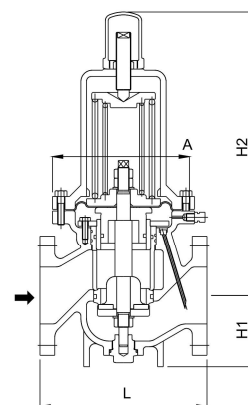
Dimensions

Size	L	A	H1	H2	Cv	Weight (kg)
15(1/2")	100	116	50	184	2.9	3.2
20(3/4")	100	116	50	184	3.5	3.3
25(1")	120	142	68	224	6.2	6.4
32(1 1/4")	190	174	81	327	12.8	17.5
40(1 1/2")	190	174	81	327	13.7	17.7
50(2")	190	174	81	327	13.8	18.8
65(2 1/2")	250	228	100	374	40.2	37.6
80(3")	250	228	100	374	41.9	37.8
100(4")	290	250	125	490	64.7	65.5
150(6")	390	340	165	655	109.5	155.6

Dimensional drawing



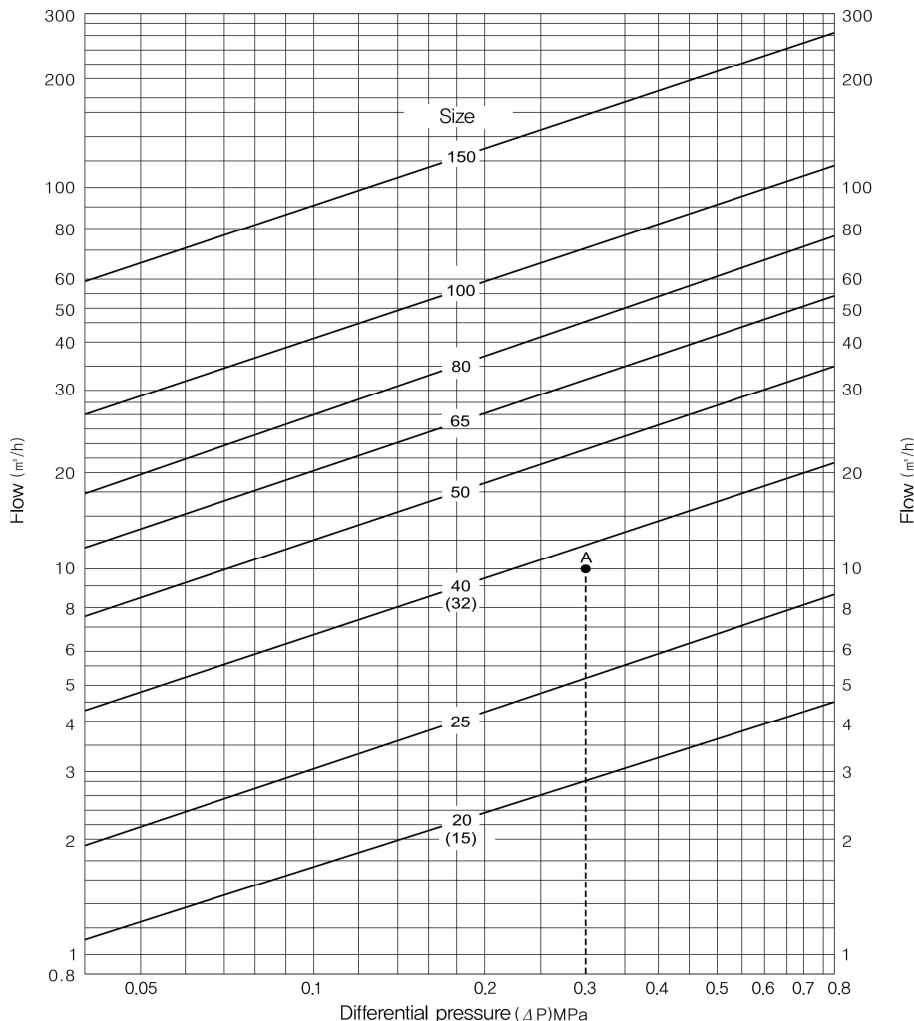
Screwed type



Flanged type

YPR-2A Type Pressure Reducing Valve

Chart on selecting a size



01

How to select the of a valve by the chart

- Example) If the primary pressure is 5 kgf/cm²g, secondary pressure is 2 kgf/cm²g, and flow is 10 cm³/h,
- 1) The differential pressure ($\Delta P = P_1 - P_2$) between the primary pressure (5 kgf/cm²g) and secondary pressure (2 kgf/cm²g) is 3 kgf/cm².
 - 2) Determine point "A" by vertically connecting the differential pressure (3 kgf/cm²) with the flow (10 cm³/h).
 - 3) Now that "A" is in between a size of 25 and 40, a size of 40 should be selected.

Application Diagram [Example]

