for Water

01

YAWR –1/1K (KC marked) Type Pressure Reducing Valve

As a large capacity pressure reducing valve, this product is used for construction facilities, plants, and water–supplying lines for agricultural use. Because the pilot valve has a pressure balance structure, it maintains a constant secondary pressure level, regardless of changes in the primary pressure.

Features

- Special seat structure : it prevents a water hammer when the valve is opened and closed.
- Reliant and easy to use by Needle valve adjustment according to field conditions
- Simple to adjust and maintain due to easy disassembling of valve body and pilot valve

Specification

Applicable fluid	Clear water, industrial water, agricultural water		
Primary pressure	Maximum 1.0MPa		
Secondary pressure regulating range	Size of 200~250		0.05~0.69MPa
	Size of 300~400		0.05~0.34MPa 0.29~0.69MPa
Maximum pressure reduction ratio	10:1		
Minimum differential pressure in the inlet and outlet side of the valve	0.05MPa		
Minimum adjustable flow	10% of rated flow		
Fluid temperature	5~80℃ below		
End connection	KS 10K RF FLANGE		
Materials	Body	GC200	
	Disc, seat	NBR / CAC406	
	Diaphragm	NBR	
Hydraulic test pressure	1.5MPa		
Optional	Pressure gauge		

▶ The primary and secondary pressure gauge is attached upon client's order.
▶ The direct operating type (YPR–2A) should be selected for control of small flow.
▶ A pipeline needs to be installed in parallel with the direct operating YPR–2A if there is a need for flow control within 10% of the rated flow.
▶ Strainer (over 40 Mesh) installation is required to ahead inlet when valve installing.
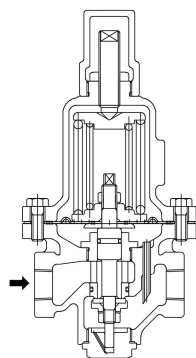▶ KC marked products are order made
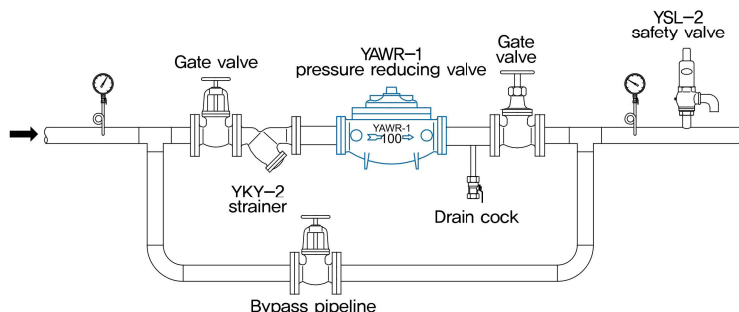
Dimensional drawing
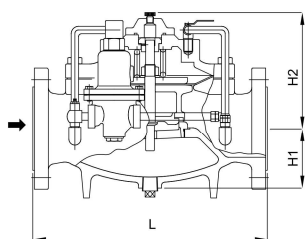
Main valve

Dimensions
(mm)

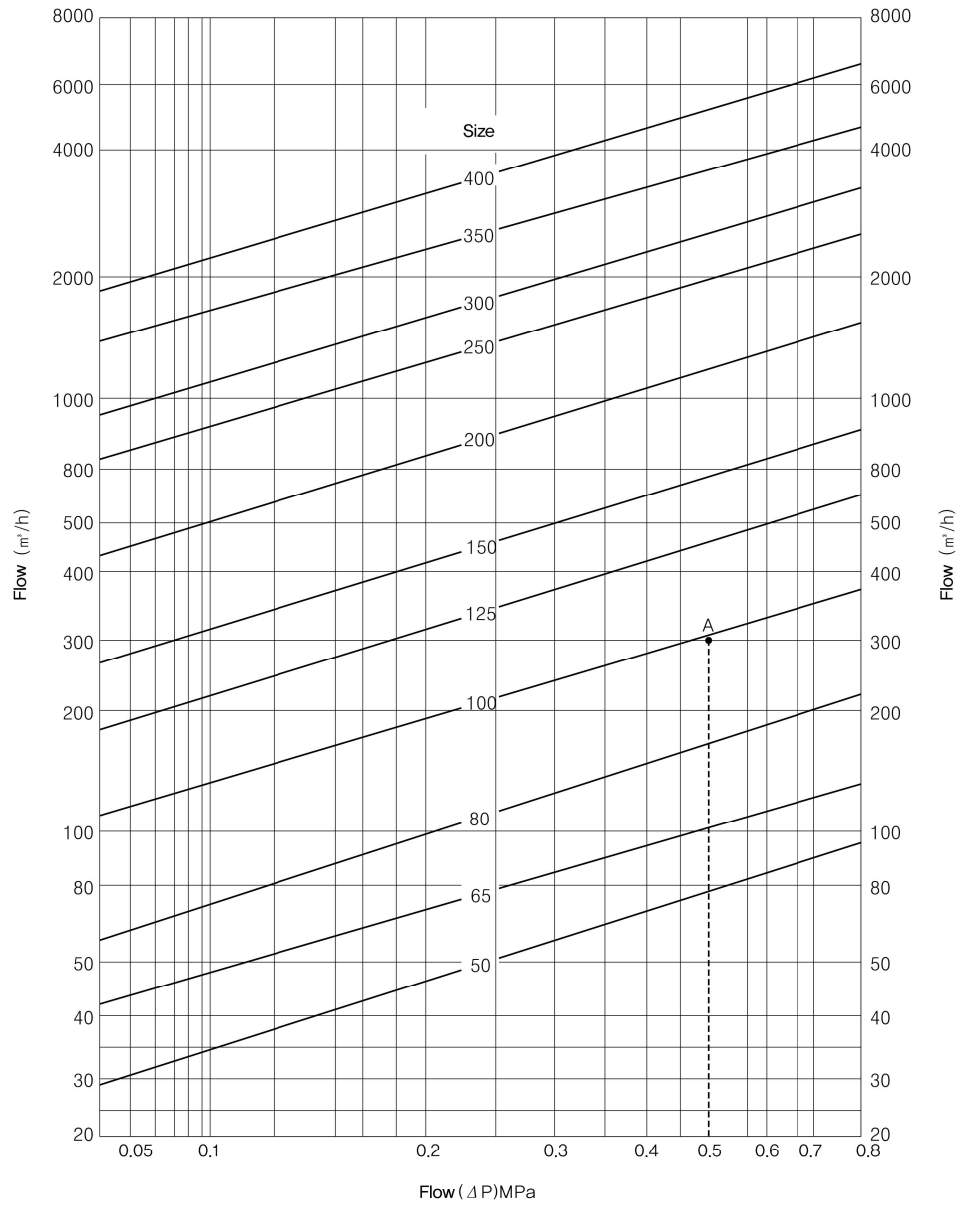| Size	L	H1	H2	Cv	Weight (kg)
200(8")	640	210	390	640	253.2
250(10")	740	250	481	1000	440
300(12")	900	290	557	1440	516

Pilot pressure reducing valve

Application Diagram [Example]

YAWR –1 Type Pressure Reducing Valve

Chart on selecting a size

Flow (△P)MPa

How to select the size of the valve in reference to the chart

Example) If the opening pressure is 0.6MPa, and rate of flow 6,000kg/h:

1) Determine "A" where opening pressure 0.6MPa meets back pressure 0.4MPa and find "B" by going down vertically to meet the rate of flow at 6,000kg/h.

2) Its "B" that determines the size of the valve, and as it stands between a size of 125 and 150, the size of the valve should be 150.