Type YPR-1S Pressure Reducing Valve For Steam

This pressure reducing valve, which is used for construction facilities and industrial steam lines, demonstrates stable control and subtle operations. It features an outstanding performance even with severe changes in the steam flow and primary pressure.

■ Features

- Pilot-type pressure reducing valve for steam features a precise adjustment function.
- With only a single adjustment, a constant pressure level is maintained, thereby ensuring safety.
- Convenient piping construction, thanks to its simple structure and solidity.
- Superb performance even in places where primary steam pressure changes are severe.
- Pressure at a constant level, regardless of changes in the secondary flow.

■ Specifications

Applicable fluid		Steam
Primary pressure		Maximum 10 kgf/cm²g
Secondary pressure regulating range		0.35~5 kgf/cm²g (for standard pressure) 4~8 kgf/cm²g (for medium pressure)
Maximum pressure reduction ratio		10:1
Minimum differential pressure in the inlet and outlet side of the valve		0.7kgf/cm²
Leakage allowance		0.05% less of rated flow
Fluid temperature		220° C below
End connection		KS 10K RF FLANGE
Materials	**Body**	GC200
	Disc, seat	BC6
Hydraulic test pressure		15 kgf/cm²g

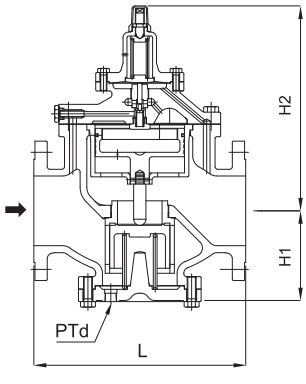
▶ Strainer (over 80 Mesh) installation is required to ahead inlet when valve installing.
▶ Install a water separator at the inlet of the pressure reducing valve to ensure the removal of condensate.

■ Dimensions

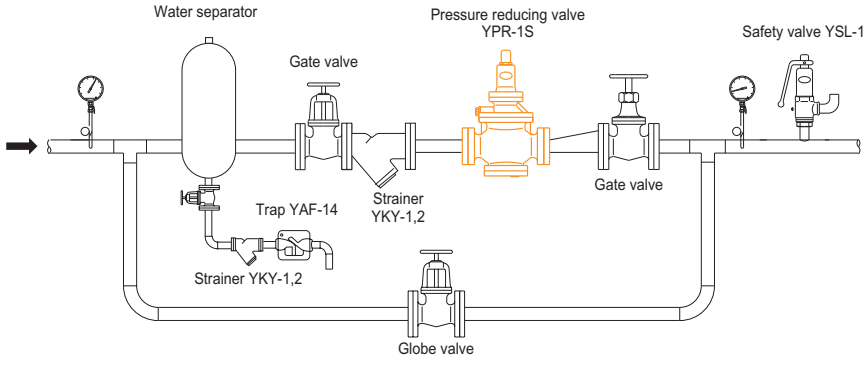
(mm)

Size	L	H1	H2	d	Cv	Weight (kg)
15(½")	152	63	230	¼"	1	8.0
20(¾")	152	63	230	¼"	2.5	8.0
25(1")	170	71	255	¼"	4	12.5
32(1¼")	200	81	265	¼"	6.5	16
40(1½")	200	81	265	¼"	9	16.5
50(2")	215	86	270	¼"	16	21
65(2½")	245	110	285	⅜"	25	29
80(3")	285	130	295	⅜"	36	39.5
100(4")	320	148	308	⅜"	64	68
125(5")	380	173	368	⅜"	100	83.3
150(6")	420	189	378	⅜"	144	101
200(8")	500	229	451	⅜"	256	183

■ Dimensional drawing



■ Application Diagram (Example)



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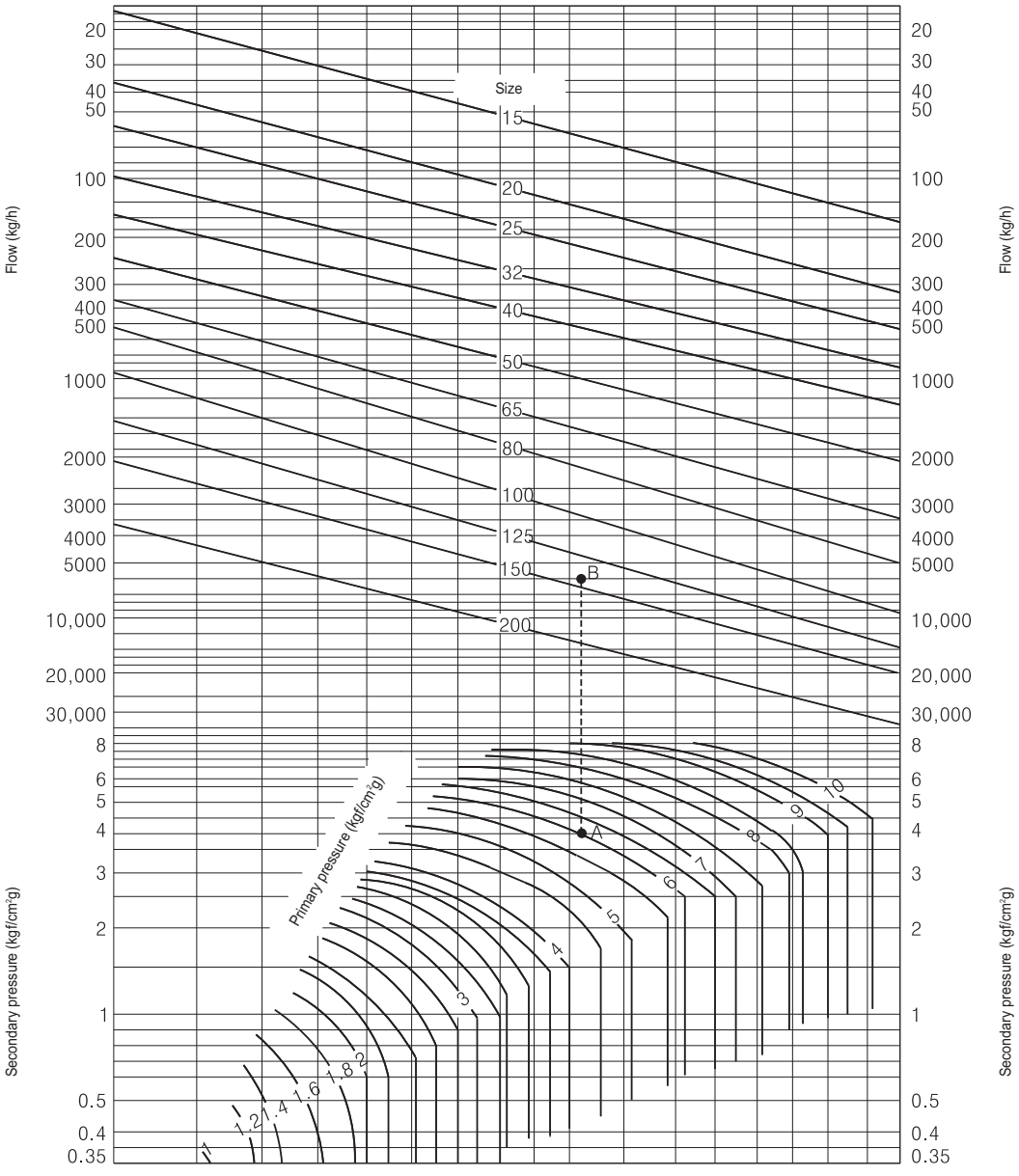
■ Chart on selecting a size



How to select the size of a valve by the chart

Example) If the primary pressure is 6 kgf/cm²g, secondary pressure is 4 kgf/cm²g, and flow is 6,000 kg/h,

1) Determine “A,” the point of intersection between the primary pressure (6 kgf/cm²g) and secondary pressure (4 kgf/cm²g). Go down vertically from “A” to make intersection “B” with the flow (6,000 kg/h).
2) This “B” is what determines the size of the valve. It is in between a size of 125 and 150, and therefore a size of 150 should be selected.