

YPR-1A PRESSURE REDUCING VALVE

FEATURES

YPR-1A Type is a pressure reducing valve to be used for pressure reducing of high pressure steam and is pilot operated type same as YPR-1 Type pressure reducing valve.

YPR-1A Type's stable regulation, sharp response and distinguished durability have been appreciated with its long time results by various fields.

With its large CV value, YPR-1A type can admit a large amount of flow.



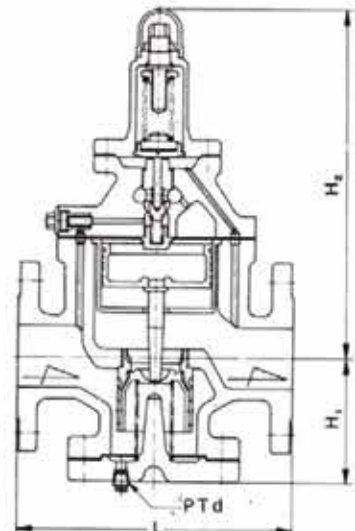
SPECIFICATIONS

Applicable fluid	Steam
Applicable primary pressure	Max. 10, 16, 20 or 30 kgf/cm ² g
Adjustable secondary pressure	Size 15~ 40mm : 0.35~12kgf/cm ² g Size 50~100mm : 0.35~10kgf/cm ² g Size 125~150mm : 0.35~ 8kgf/cm ² g
Maximum reducing rate	10 : 1
Minimum pressure differential across the disc	0.7kgf/cm ²
Lock up pressure	Max. 0.2kgf/cm ² g
Offset pressure	Within 0.5kgf/cm ² g
Minimum adjustable flow	5% of rated flow
Leakage allowance	Less than 0.05% of rated flow
Applicable temperature	Below 250°C
End connection	Flanged KS 10, 16, 20 & 30 kgf/cm ² RF
Materials	Body : Cast steel Disc & seat : Stainless steel, Diaphragm : Stainless steel
Hydraulic pressure test	Twice as much pressure of flange rated pressure

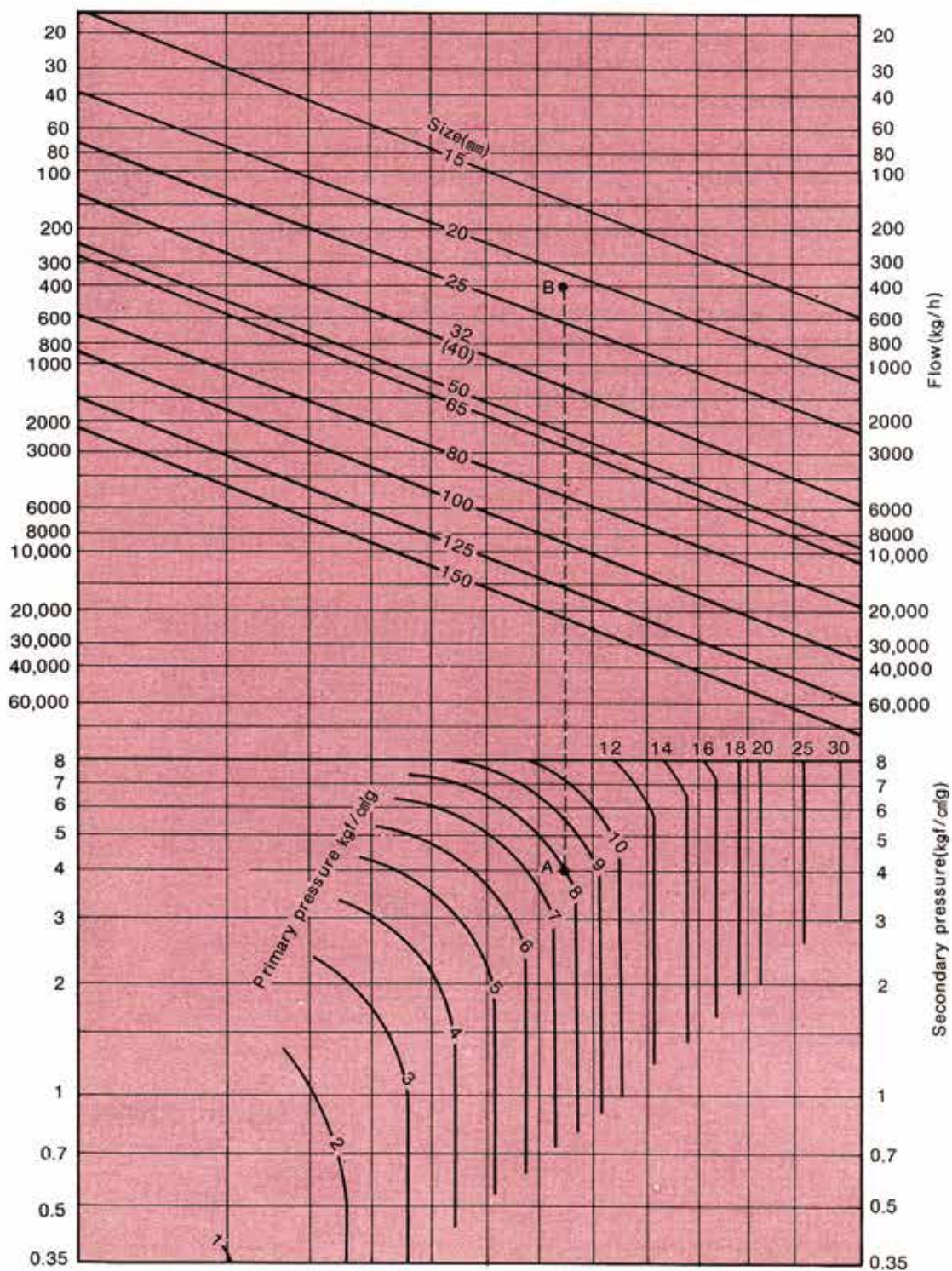
DIMENSIONS AND CONSTRUCTION

(mm)

Size	L		H ₁	H ₂	d	Cv value	Wt.(kg)
	20K	30K					
15(½")	224	232	80	290	½"	1.5	15
20(¾")	228	232	80	290	¾"	3.5	15
25(1")	238	246	85	296	1"	6	19.5
32(1¼")	260	268	108	315	1¼"	9.5	24
40(1½")	260	268	108	315	1½"	13.5	27
50(2")	272	280	108	323	2"	24	36.5
65(2½")	282	294	129	354	2½"	28	40.6
80(3")	354	366	140	354	3"	54	74
100(4")	380	396	187	404	4"	96	119
125(5")	434	454	225	473	5"	150	170
150(6")	544	564	259	505	6"	216	302
200(8")	748	770	304	654	8"	290	395



YPR-1A VALVE SIZE SELECTING CHART



HOW TO USE THE CHART

Where,

Primary pressure : 8kgf/cm²g

Secondary pressure : 4kgf/cm²g

Flow (Saturated steam) : 400kg/h

Obtain a cross point "A" on the vertical line down from Primary pressure 8kgf/cm²g with horizontal line of Secondary pressure 4kgf/cm²g.

Obtain a cross point "B" on the vertical line up from the point "A" with the horizontal line of Flow 400kg/h. As the point "B" is between Size 20 and 25mm, select safer side 25mm.