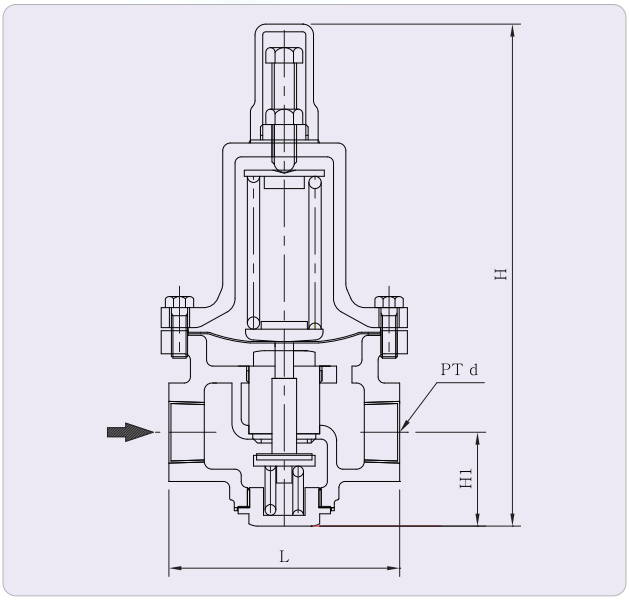
PIR-1S | Pressure Reducing Valve For Steam



Specifications

Inlet Pressure (kgf/㎠g)	10
Outlet Pressure (kgf/㎠g)	0.5~7
Max Reducing Ratio	10 : 1
Working Temperature (℃)	220
Working Fluid	Steam
Connection	PT Screwed
Materials	Body : Ductile Iron
	Trim : Stainless Steel

Dimensions

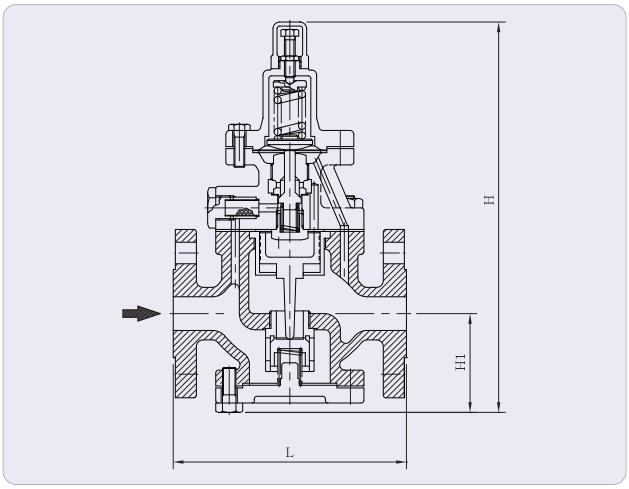
Part / Size	d	L	H1	H
15A	PT 1/2"	120	47	222
20A	PT 3/4"	120	47	222
25A	PT 1"	120	51	231
32A	PT 1 1/4"	150	70	280
40A	PT 1 1/2"	150	70	280

Cv

Size / Model	15A	20A	25A	32A	40A	50A	65A	80A	100A	125A	150A
DRE-1F	1	2	3.5	5.5	8	14	22	32	48	75	108
DRE-1S	0.8	0.8	1								
PIR-1F	1	2.5	4	6.5	9	16	25	36	64		
DRE-3F	1	2.5	4	6.3	8						

PIR-1F/2F | Pressure Reducing Valve For Steam

- The mechanism that automatically adjusts the pressure in pressure reducing valves uses the balance between the steam pressure and the adjustment spring.
- The steam flowing through the pilot valve is controlled by the balance between the adjustment spring and the secondary pressure.
- This steam causes the piston to fall and rise, which controls the amount of opening of the main valve.



Specifications

Model	PIR-1F	PIR-2F
Inlet Pressure (kgf/㎠g)	10	20
Outlet Pressure (kgf/㎠g)	0.5~7	0.5~15
Max Reducing Ratio	10 : 1	10 : 1
Working Temperature (℃)	220	250
Working Fluid	Steam	Steam
Connection	JIS 10K Flanged	JIS 20K Flanged
Materials	Body : Ductile Iron	Body : Cast Steel
	Trim : Stainless Steel	Trim : Stainless Steel

Dimensions

Part \ Size	15A	20A	25A	32A	40A	50A	65A	80A	100A	125A	150A	200A	250A
L	165	165	170	200	200	220	250	290	320	350	395	560	650
H1	75	75	75	85	85	95	105	125	130	148	466	620	267
H	357	357	357	375	375	395	415	440	465	459	181	250	685

Table for Sizing | PIR-1F(For Steam)

● How to use the chart

where,

Primary pressure : 4kgf/cm²g {0.4Mpa}
Secondary pressure : 2kgf/cm²g {0.2Mpa}
Flow (Saturated steam) : 800kg/h

Obtain a cross point "A" on the vertically line of primary pressure 4kgf/cm² {0.4Mpa} with horizontal line of secondary pressure 2kgf/cm² {0.2Mpa}.
Obtain a cross point "B" on the vertical line down from the point "A" with the oblique line og flow 800kg/h. As the point "B" is between size 40 and 50mm. select safer size 50mm.