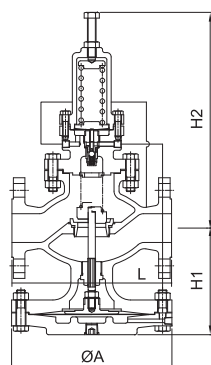


# Type YPR-100, 100A Pressure Reducing Valve For Steam

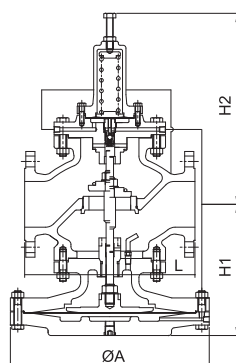
This pressure reducing pilot diaphragm valve for steam is a self-operated valve that has a high Cv value, and maintains an outstanding level of controllability in primary pressure changes as well as steam equipments' load fluctuations.



## ■ Dimensional drawing



Type 15-40A



Type 50-150A

## ■ Features

- 20:1 Maximum Pressure Turndown Ratio provides one-stage reduction without the customary costly two stage reduction.
- High Cv value and superb flow-controlling capacity allows even products that are one or two size smaller than the usual nominal diameter.
- Low pressure (0.21 kgf/cm<sup>2</sup>g) management is possible.
- Three different springs are employed based on the secondary pressure regulating range, thereby color-differentiating the pressure range based on the pipeline conditions.
- Simple structure, and major moving parts are made of durable stainless steel : removal of an adapter between the main valve and pilot valve enables easy repair and inspection.

## ■ Specifications

Type	YPR-100	YPR-100A
Applicable fluid	Steam	
Primary pressure	Maximum 17 kgf/cm <sup>2</sup> g	Maximum 30 kgf/cm <sup>2</sup> g
High pressure regulating range	0.21~2.1kgf/cm <sup>2</sup> g(for low pressure), 1.4~7.0kgf/cm <sup>2</sup> g(for medium pressure), 5.~14.0kgf/cm <sup>2</sup> g(for high pressure)	
Maximum pressure reduction ratio	20:1	
Minimum differential pressure in the inlet and outlet side of the valve	0.5kgf/cm <sup>2</sup>	
Leakage allowance	0.01% less of rated flow	
Fluid temperature	220° C below	250° C below
End connection	KS 10K, 20K kgf/cm <sup>2</sup> g RF FLANGE	KS 20K, 30K kgf/cm <sup>2</sup> g RF FLANGE
Material	Body	GCD450
	Disc, seat	STS
	Diaphragm	Copper
Hydraulic test pressure	30 kgf/cm <sup>2</sup> g	45 kgf/cm <sup>2</sup> g

- ▶ 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.

## ■ Pressure regulating spring range

Yellow	0.21~2.1kgf/cm <sup>2</sup> g
Red	1.4~7.0kgf/cm <sup>2</sup> g
Blue	5.6~14.0kgf/cm <sup>2</sup> g

## ■ Dimensions

Size	L	ØA	H1	H2	Cv	Weight (kg)
15(1/2")	130(130)	196	140(127)	273(130)	5	17.5
20(3/4")	150(150)	196	135(130)	281(130)	7.2	18
25(1")	184(197)	223	150(135)	283(130)	10.9	23.5
32(1 1/4")	180(180)	223	163(143)	293(130)	14.3	24.5
40(1 1/2")	222(235)	223	173(148)	297(130)	18.8	26
50(2")	254(267)	272	195(194)	292(130)	32	41.5
65(2 1/2")	276(292)	348	255(227)	327(130)	60	69.5
80(3")	298(318)	348	260(230)	332(130)	78	75
100(4")	352(368)	402	285(252)	343(130)	120	97.5
125(5")	400	460	330(368)	415(368)	160	180
150(6")	451(473)	530	384(368)	445(368)	245	230

- ▶ Dimensions in parenthesis are for YPR-100A.

## ■ Application Diagram (Example)

