



# Type YPR-50 Pressure Reducing Valve For Steam

As a direct operating pressure reducing valve for steam that can be used for pipelines and a wide array of steam facilities, this product can be employed for various purposes in an environment with small flow.



## ■ Features

This is a direct operating pressure reducing valve for small flow, which cannot be controlled by a pilot type valve. It offers an outstanding pressure control performance, a wide pressure regulating range, and superb corrosion resistance and durability, thanks to the use of stainless steel for the main components.

## ■ Specifications

Applicable fluid	Steam	
Primary pressure	Maximum 14 kgf/cm <sup>2</sup> g	
Secondary pressure regulating range	0.2~1 kgf/cm <sup>2</sup> g (for low pressure), 1~2 kgf/cm <sup>2</sup> g (for medium pressure), 2~10 kgf/cm <sup>2</sup> g (for standard pressure)	
Maximum pressure reduction ratio	10:1	
Minimum differential pressure in the inlet and outlet side of the valve	0.5kgf/cm <sup>2</sup>	
Fluid temperature	220°C below	
Leakage allowance	0.05% less of rated flow	
End connection	KS PT SCREW	
Materials	Body	GC200
	Disc, seat	STS
Hydraulic test pressure	21 kgf/cm <sup>2</sup> g	

## ■ Dimensions

(mm)

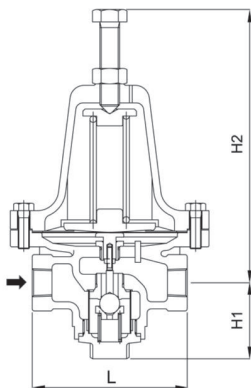
Size	L	H1	H2	Weight (kg)
15(1/2")	110	54	180	5.5
20(3/4")	110	54	180	5.5
25(1")	144	66	256	8.6

## ■ Capacity

(kg/h)

Primary pressure (kgf/cm <sup>2</sup> g)	Secondary pressure (kgf/cm <sup>2</sup> g)	Size			Primary pressure (kgf/cm <sup>2</sup> g)	Secondary pressure (kgf/cm <sup>2</sup> g)	Size			
		15(1/2")	20(3/4")	25(1")			15(1/2")	20(3/4")	25(1")	
1.0	0.5	3.4	3.9	6.5	7.0	5.6	14.3	17	27.9	
	0.9	3.7	3.4	7.4		4.6	15.8	18.4	30.7	
1.4	0.5	3	3.9	4.4		2.8	13.9	16.2	26.4	
	1.6	4.4	5	7.9		0.7	4.8	5.6	9.3	
2.1	1	3.7	4.2	7.1		8.4	6.8	16.2	19.4	31.8
	0.2	2.3	2.8	4.2			4.9	19.4	21.9	36.4
2.8	2.3	7	8.5	13.2	3.2		16.9	18.8	31.6	
	1.4	5.6	6.8	11.2	0.8	7.7	8.5	13.9		
	0.3	2.8	3.9	5.4	8.4	20.2	23.4	38.7		
3.5	2.8	9.1	10.1	17	10.6	6	25.6	29.6	50	
	1.4	7	8.1	13.2		3.9	21	24.8	41.8	
	0.4	3.4	4.4	6.2		1	9.3	11.6	17.9	
4.2	3.4	9.6	10.8	18.6	12.7	9.8	28.7	34.1	55.8	
	2.8	10.6	11.6	20.3		8.1	30.2	35.6	60.5	
	1.3	6.3	7.3	12		4.9	27.1	30.2	52	
	0.4	3.9	5.1	7		1.3	11.6	13.2	21.7	
5.6	4.5	12.4	14.4	24	14.0	9.8	32.4	36.4	61.2	
	3.8	13.1	15.8	24.8		8.1	33.3	38	63.6	
	1.6	8.5	9.6	15.5		5.6	30.2	34.9	58.2	
	0.6	4.2	5.4	7.6		1.4	14.7	17	27.1	

## ■ Dimensional drawing



## ■ Application Diagram (Example)

