

# GD-45,45P

Direct type	Pilot type	Piston	Diaphragm
Bellows	Internal sensing	External sensing	Stainless steel
With handle	Built-in strainer	Low pressure	Remote
Valve leakage 0	Nylon		

## ■Features

1. Compact and lightweight.
2. Simple structure and easy maintenance.
3. Applicable to inlet pressure of up to 2.0 MPa.
4. A screen (60 mesh) is incorporated to protect the valve and valve seat from dirt.
5. Excellent workability accomplished by the external pressure type bellows of pressure sensing part.
6. Pressure adjustment is handle-operated without any tool (GD-45P).



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## ■Specifications

Model	GD-45P · 45	
Application	Steam	
Inlet pressure	2.0 MPa or less	
Reduced pressure	(A) 0.02-0.1 MPa (spring color: yellow)	
	(B) 0.05-0.4 MPa (spring color: blue)	
	(C) 0.35-1.0 MPa (spring color: yellow green)	
Minimum differential pressure	0.05 MPa	
Maximum pressure reduction ratio	10:1	
Maximum temperature	220°C	
Valve seat leakage	0.1% or less of rated flow rate	
Material	Body	Ductile cast iron
	Valve, valve seat	Stainless steel
	Bellows	Phosphor bronze
Connection	JIS Rc screwed	

· The material of handle for GD-45P is using Polyphethylene sulfide (PPS resin).

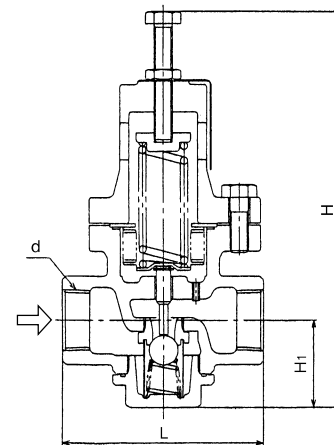
## ■Dimensions (mm) and Weights (kg)

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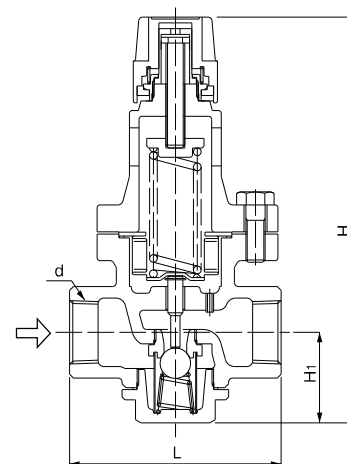
Nomal size	d	L	H <sub>1</sub>	H	Weight
15A	Rc 1/2	111	47	216	3.2
20A	Rc 3/4	111	47	216	3.2
25A	Rc 1	111	47	216	3.2

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Nomal size	d	L	H <sub>1</sub>	H	Weight
15A	Rc 1/2	111	47	213	3.2
20A	Rc 3/4	111	47	213	3.2
25A	Rc 1	111	47	213	3.2

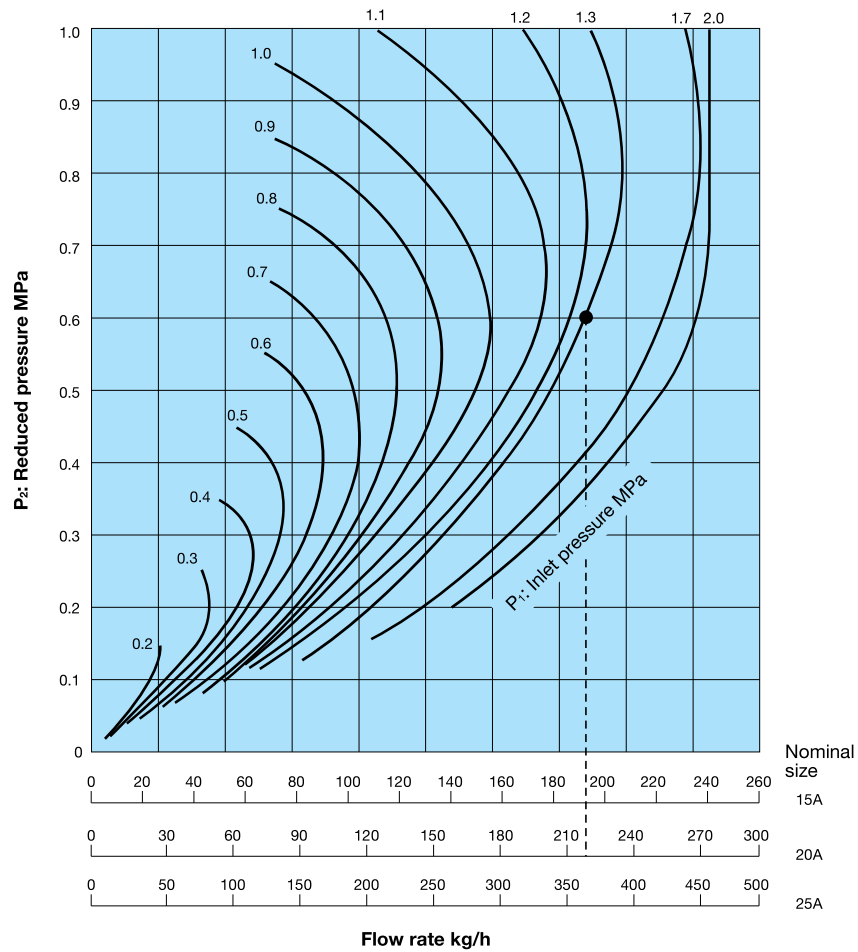


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### Chart for Selecting Nominal Sizes



#### [Example]

When selecting the nominal size of a pressure reducing valve whose inlet pressure ( $P_1$ ), reduced pressure ( $P_2$ ), and flow rate are 1.3 MPa, 0.6 MPa, and 200 kg/h, respectively, first find the intersection point of the inlet pressure of 1.3 MPa and the reduced pressure of 0.6 MPa. Trace down vertically from this intersection point to find the nominal size with a flow rate of 200 kg/h or over. In this case, the nominal size is 20A.

\* Set the safety factor at 80 to 90%.