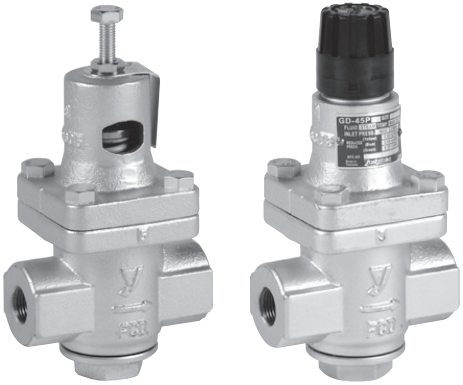
GD-45,45P

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



GD-45 GD-45P

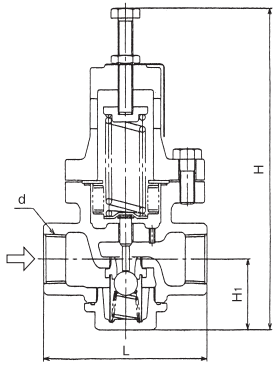
■Features

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).

■Specifications

Model		GD-45·45P
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 Polyphenylene sulfide (PPS resin).



GD-45

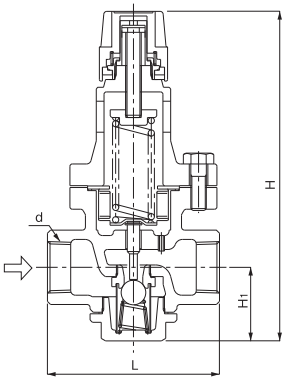
■Dimensions (mm) and Weights (kg)

· GD-45

Nominal size	d	L	H1	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

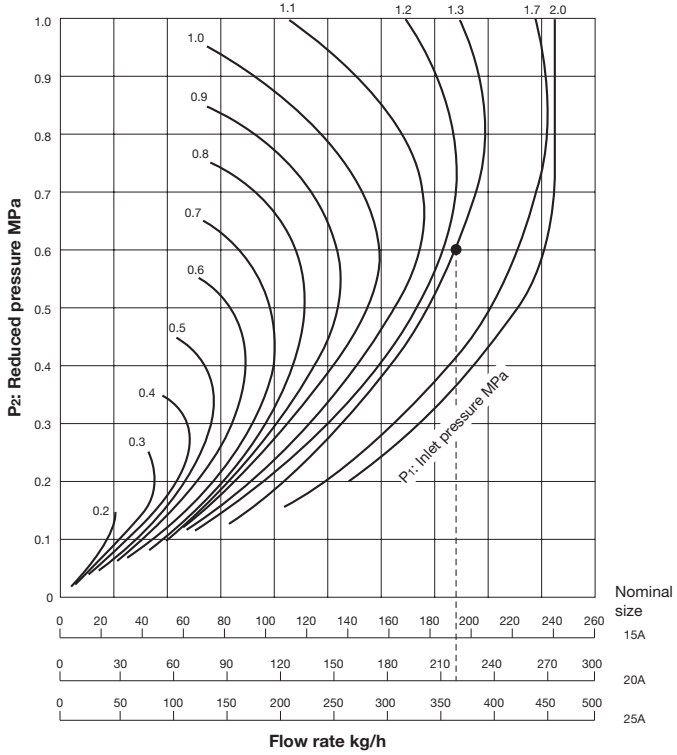
· GD-45P

Nominal size	d	L	H1	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



GD-45P

■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%.