

Direct type

Bellows

a

Ductile iron

v

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GD-45P・45

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

ModelGD-45P·45ApplicationSteamInlet pressure2.0 MPa or less(A) 0.02-0.1 MPa(A) 0.02-0.1 MPaReduced pressure(B) 0.05-0.4 MPa(C) 0.35-1.0 MPa(C) 0.35-1.0 MPaMinimum differential pressure0.05 MPaMaximum pressure reduction ratio10:1Maximum temperature220°CValve seat leakage0.1% or less of rated flow rate	- P						
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Reduced pressure (B) 0.05-0.4 MPa (C) 0.35-1.0 MPa 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	Inlet pressure		2.0 MPa or less				
(C) 0.35-1.0 MPa 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	Reduced pressure		(A) 0.02-0.1 MPa				
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Maximum temperature 220°C Valve seat leakage 0.1% or less of rated flow rate	Minimum differential pressure		0.05 MPa				
Valve seat leakage 0.1% or less of rated flow rate	Maximum pressure reduction ratio		10:1				
	Maximum temperature		220°C				
Body Ductile cast iron	Valve seat leakage		0.1% or less of rated flow rate				
Ductile cast from	Material	Body	Ductile cast iron				
Material Valve, valve seat Stainless steel		Valve, valve seat	Stainless steel				
Bellows Phosphor bronze		Bellows	Phosphor bronze				
Connection JIS Rc screwed	Connection		JIS Rc screwed				

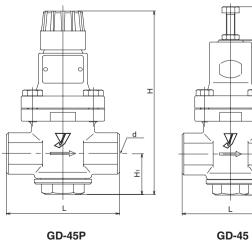




Dimensions (mm) and Weights (kg)

Nominal size	d	L	H1	Н	Weight
15A	Rc 1/2	111	47	213 (216)	3.2
20A	Rc 3/4	111	47	213 (216)	3.2
25A	Rc 1	111	47	213 (216)	3.2

· The above values in parentheses are the dimensions of the GD-45.



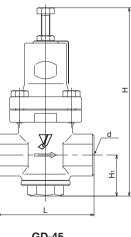
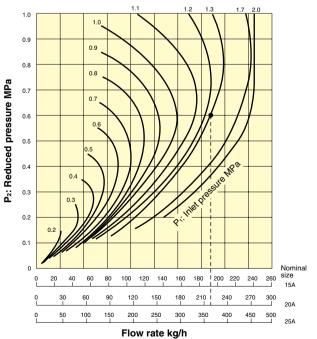


Chart for Selecting Nominal Sizes



[Example]

When selecting the nominal size of a pressure reducing valve whose inlet pressure (P1), reduced pressure (P2), 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%.