

PRESSURE REDUCING VALVE

Type GD-45, 45P / With handle / Steam

YOSHITAKE



Direct type

Internal sensing

Bellows

Built-in strainer

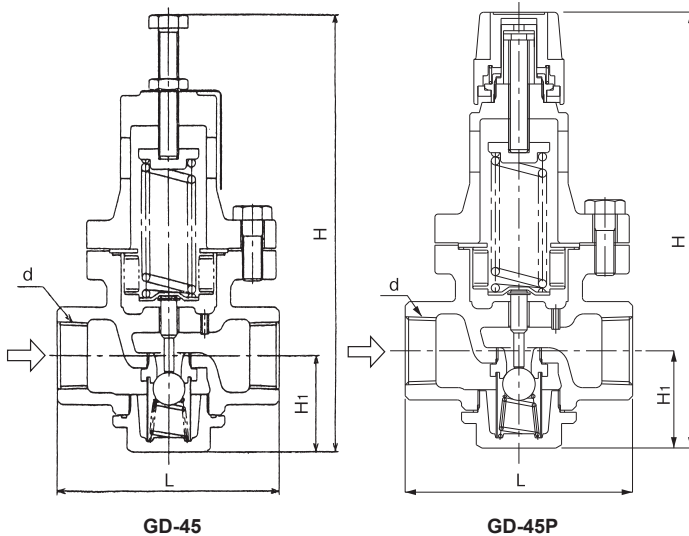
FEATURES

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).

DIMENSIONS (MM) AND WEIGHTS (KG)

GD-45					
Nominal size	d	L	H ₁	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

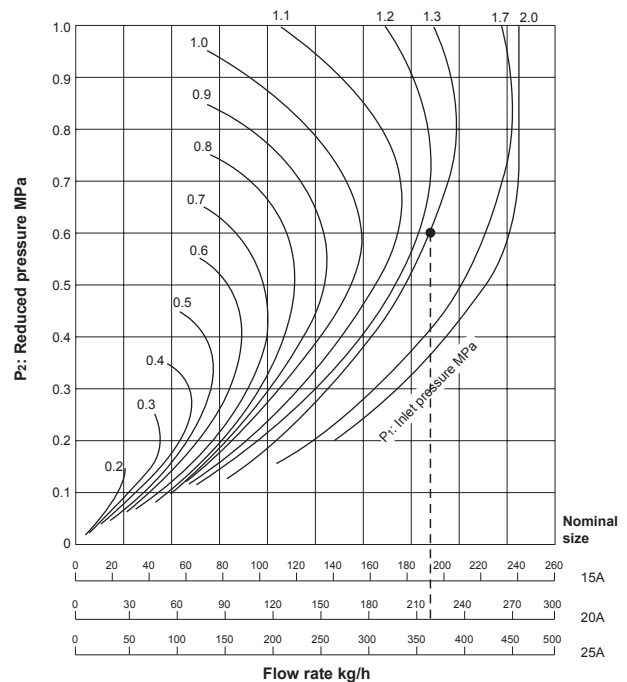
GD-45P					
Nominal size	d	L	H ₁	H	Weight
15A	Rc 1/2	111	47	213	3.2
20A	Rc 3/4	111	47	213	3.2
25A	Rc 1	111	47	213	3.2



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	

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 flow rate of 200 kg/h or over. In this case, the nominal size is 20A.

* Set the safety factor at 80 to 90%.