

DP-1000 Type Pressure Reducing Valve (For Steam)

This series pressure reducing valve, which are used for construction facilities and industrial steam lines, demonstrates stable control and subtle operations. It features an outstanding performance even with severe changes in the steam flow and primary pressure.



■ Features

1. Pilot-type pressure reducing valve for steam features a precise adjustment function.
2. With only a single adjustment, a constant pressure level is maintained, thereby ensuring safety.
3. Convenient piping construction, thanks to its simple structure and solidity.
4. Superb performance even in places where primary steam pressure changes are severe.
5. Pressure at a constant level, regardless of changes in the secondary flow.

■ Specifications

Model	DP-1000	
Application	Steam	
Inlet pressure	Max.1.0MPa	
Reduced pressure	0.05~0.8MPa	
Maximum pressure reduction ratio	20:1	
Minimum differential pressure	0.05MPa	
Valve seat leakage	0.01% or below of rated flow rate	
Maximum temperature	220°C	
Material	Body	Ductile cast iron
	Disc, Seat	Stainless steel
	Piston, Cylinder	Brass
	Diaphragm	Stainless steel
Connection	JIS 10K FF / PN16 RF Flanged	
Body Hydraulic Test	1.5MPa	

► Strainer (over 80mesh) is required ahead of the inlet when valve installed.

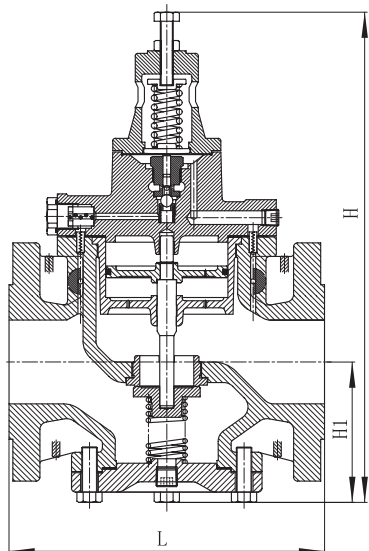
► Install a water separator at the inlet of the pressure reducing valve to ensure the removal of condensate.

■ Dimensions

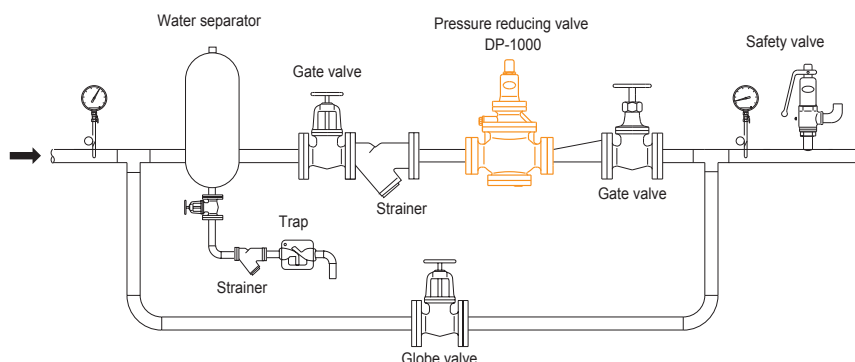
(mm)

Size	L	H1	H	Weight (kg)
15(1/2")	150	64	285	8
20(3/4")	155	64	285	8.5
25(1")	160	67	304	10
32(1 1/4")	190	82	323	14
40(1 1/2")	190	82	330	14.5
50(2")	220	94	352	20
65(2 1/2")	245	109	380	30
80(3")	290	124	406	35
100(4")	330	149	456	52.5
150(6")	420	192	555	135

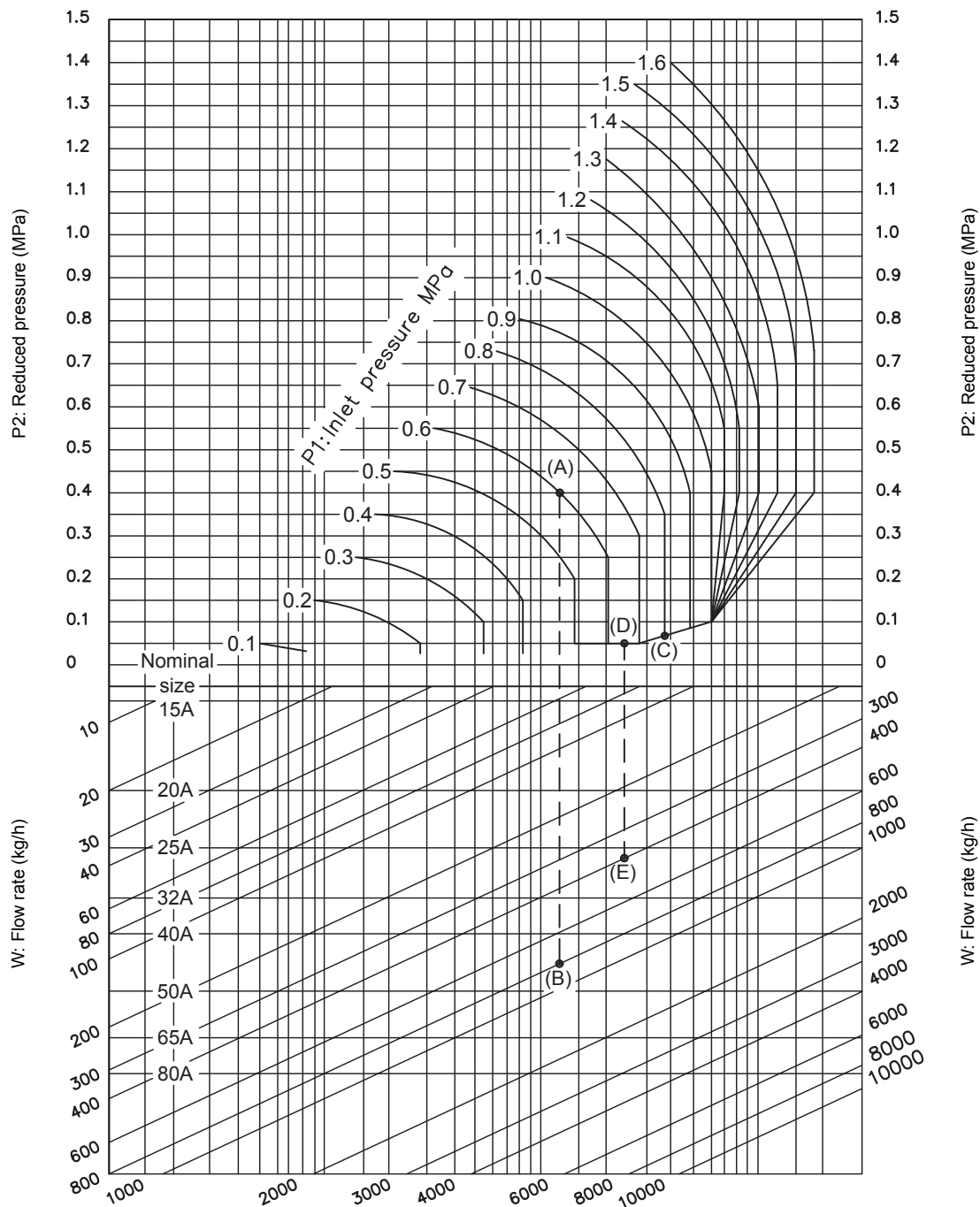
■ Constructions



■ Installation example



■ SIZE SELECTION CHART



How to select the size of a valve by the chart:

Ex.1) For example, the inlet pressure (P1) is 0.6MPa, reduced pressure (P2) is 0.4Mpa, and flow rate 800kg/h.

- 1).Find the point of intersection (A) between inlet pressure 0.6MPa and reduced pressure 0.4MPa.Vertically proceed from point (A) to come across the flow rate 800kg/h, and regard this point as (B).
- 2).Point (B) is between size 40A and 50A. Select the larger size 50A.

Ex. 2) For example, the inlet pressure (P1) is 0.8MPa, reduced pressure (P2) is 0.05Mpa, and flow rate 600kg/h.

- 1).Find the point of intersection (C) between inlet pressure 0.8MPa and the diagonal line. Move leftward down the diagonal line to intersection point (D) where the diagonal lines intersect with the reduced pressure 0.05MPa.
- 2).Vertically proceed from point (D) to come across the flow rate 600kg/h, and regard this point as (E). Point (E) is between size 32A and 40A. Select the larger size 40A.