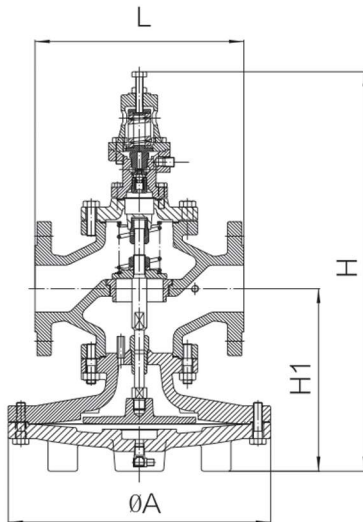


BTN-2000 type pressure reducing valve for steam is a pilot-operated diaphragm type valve, which has a high Cv value, and maintains good performance even at the condition of large inlet pressure and large steam capacity.



■ Dimension Drawing



■ Feature

- 20:1 Max. pressure reduction ratio provides one-stage reduction without more cost for two-stage.
- It adopts large size diaphragm to enlarge compression area of main valve, which brings large flow and significant controllability.
- Spherical main valve ensures good sealing thus reduces seat leakage greatly.
- Simple structure and main moving parts made of durable stainless steel enables easy repair and inspection.

■ Specification

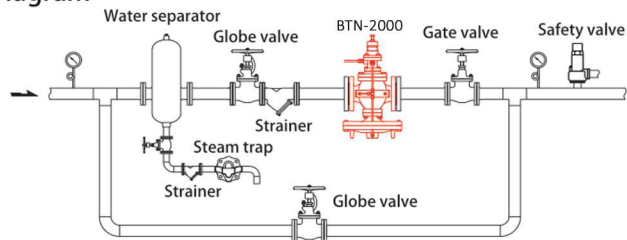
Model	BTN-2000	
Applicable Fluid	Steam	
Inlet Pressure	2.0 MPa	
Outlet Pressure	0.1~1.4MPa	
Max. Pressure Reduction Ratio	20:1	
Min. Differential Pressure	0.05MPa	
Leakage Allowance	0.01% less of rated flow	
Fluid Temperature	Max. 220°C	
Material	Body	Ductile Cast Iron
	Disc, Seat	STS
	Diaphragm	STS
End Connection	PN16/PN40/ANSI 150/ANSI 300	
Hydraulic Test	2.4MPa	

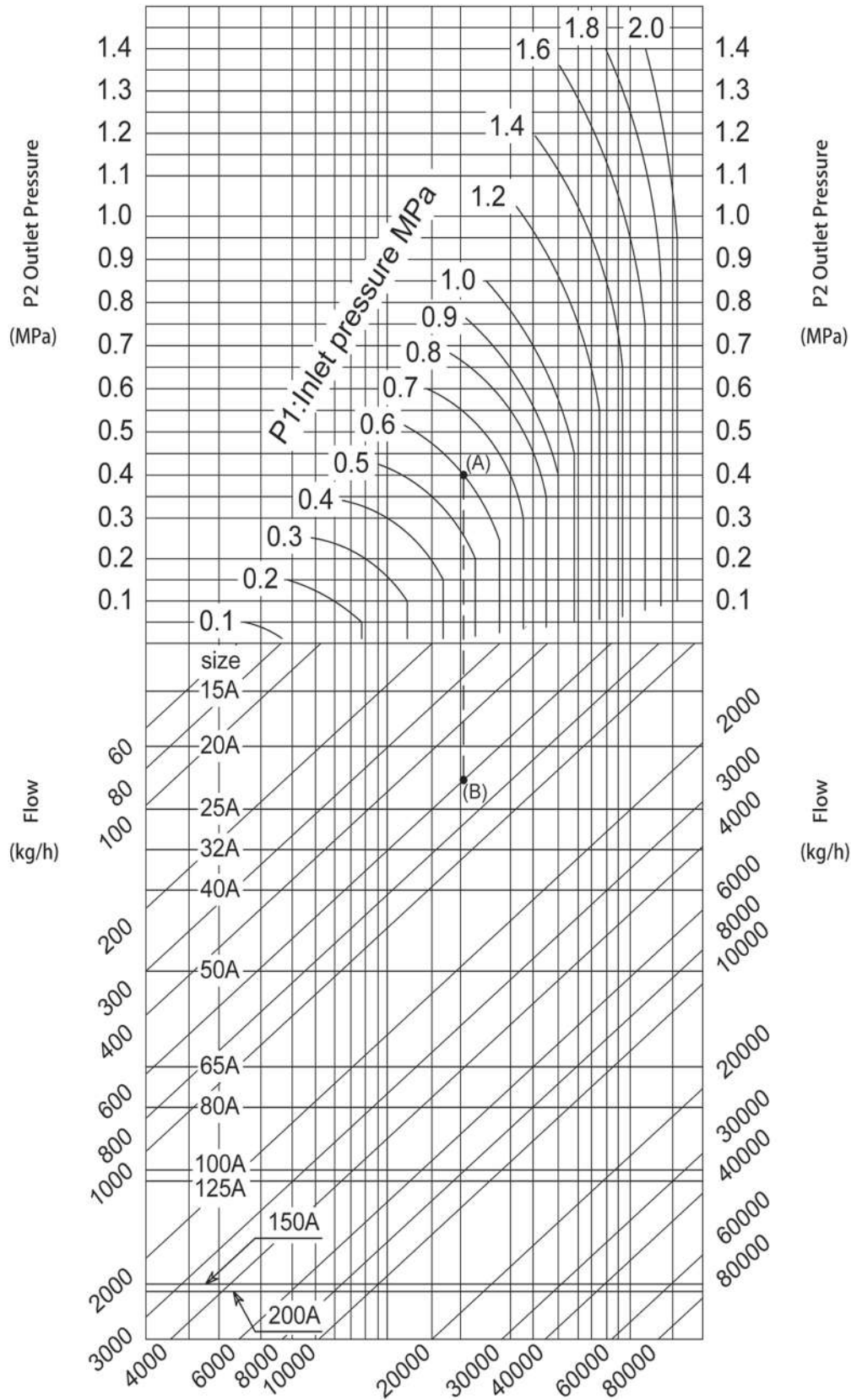
- ▶ Strainer(over 80mesh) is required ahead of the inlet when valve installed.
- ▶ Install a water separator at the inlet to ensure the removal of condensate.

■ Dimension

Size	L	ØA	H1	H	Weight(kg)
15(1/2")	146	200	170	398	15.5
20(3/4")	146	200	170	398	16
25(1")	156	226	175	408	21
40(1 1/2")	196	226	192	437	24.5
50(2")	222	276	215	498	36
65(2 1/2")	282	354	252	552	64.5
80(3")	302	354	266	575	71.5
100(4")	342	400	324	660	111
150(6")	465	500	411	796	234
200(8")	469	500	411	796	242

■ Application Diagram





How to select the size of a valve by the chart

Example) If inlet pressure (P1) is 0.6MPa, outlet pressure (P2) is 0.4MPa, and the flow rate is 600kg/h

- 1) Find the point of intersection (A) between inlet pressure 0.6MPa and outlet pressure 0.4MPa. Vertically proceed from point (A) to come across the flow rate 600kg/h, and regard this point as (B).
- 2) Point (B) is between size 20A and 25A. Select the larger size 25A.