

# GD-4B

Direct type	Pilot type	Piston	Diaphragm
Bellows	Internal sensing	External sensing	Stainless steel
With handle	Built-in strainer	Slight pressure	Remote
Valve leakage 0	Nylon		



## ■Features

1. Diaphragm with a large pressure sensing area has accuracy to high set pressure.
2. No outside leakage since there is no gland part.
3. Adopts pressure balance structure.

## ■Specifications

Application	Air, Other non-dangerous fluids					
Nominal size	15-50A			65-150A		
Diaphragm diameter (mm)	φ 400	φ 340	φ 256	φ 400	φ 340	φ 256
Inlet pressure	800 kPa			500 kPa		
Reduced pressure (kPa)	2-5	5-10	10-25	2-4	10-20	20-50
			25-50	4-6		50-100
			50-100	6-10		100-200
			100-200			100-200
Adjusted reduced pressure	85% or less of inlet pressure (gauge pressure)					
Minimum differential pressure	1 kPa	2 kPa	3 kPa	1 kPa	2 kPa	3 kPa
Maximum pressure reduction ratio	20:1			15:1		
Application temperature	5-80°C					
Valve seat leakage	No leakage					
Material	Body	Cast iron *1				
	Valve	NBR				
	Valve seat, Spindle	Stainless steel				
	Diaphragm	NBR				
Connection	JIS 10K FF flanged					

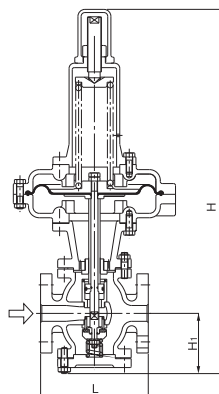
\*1 Available with carbon steel or stainless steel body for 20A to 150A.

### ■ Dimensions (mm) and Weights (kg)

Nominal size	L	H		H <sub>1</sub>	Weight
		Ha	Hb		
15A	166	575	590	95	27
20A	170	575	590	95	27
25A	170	575	590	95	28
32A	180	585	600	100	28
40A	180	585	600	100	29
50A	180	605	620	110	31
65A	215	700	715	125	39
80A	260	715	730	140	48
100A	300	785	800	165	64
120A	360	840	855	195	88
150A	382	895	910	225	123

Note) Dimension H will be different depends on diaphragm diameter. (Ha:  $\phi$ 256 Hb:  $\phi$ 340,  $\phi$ 400)

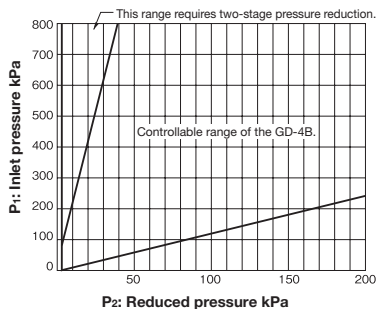
Note) The value of product weights are when diaphragm diameter is  $\phi$ 256. Please add 5kg for  $\phi$ 340, and 9kg for  $\phi$ 400.



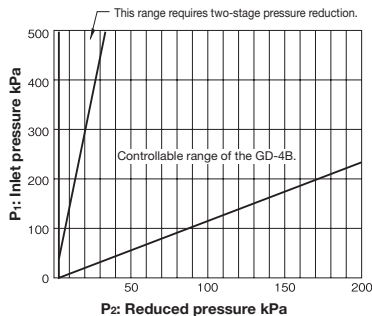
Structure will be different depends on nominal size and diaphragm diameter.

### GD-4B Specifications Selection Chart

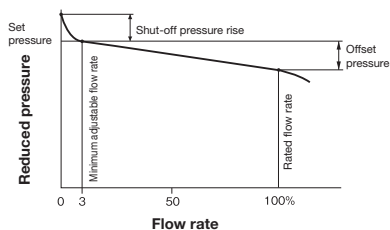
#### · Nominal size 15A-50A



#### · Nominal size 65A-150A



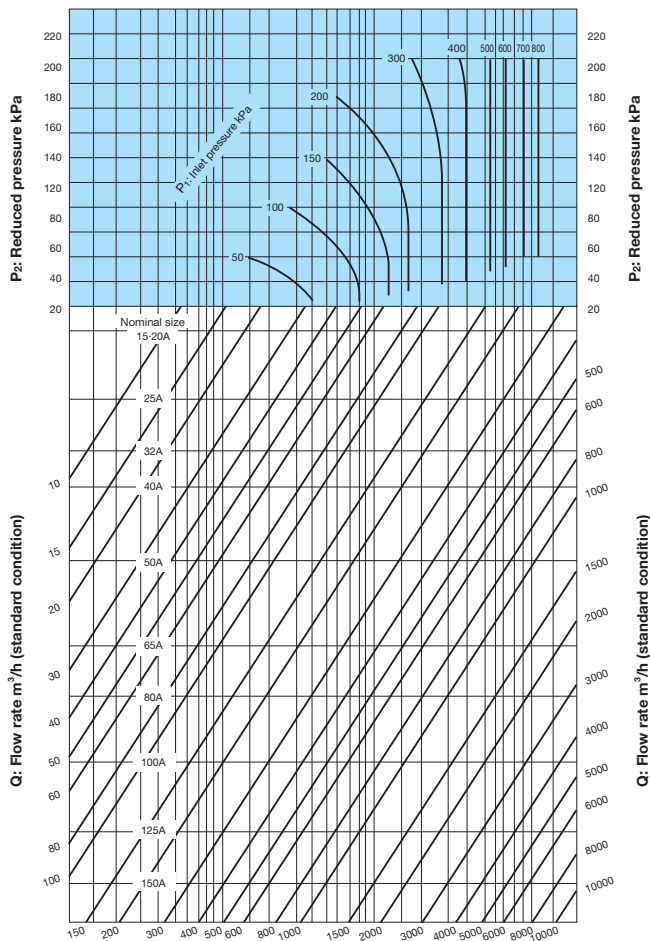
### Flow Characteristic Chart



Nominal size	Shut-off pressure rise
15A-50A	Within 10% of set pressure
65A-100A	Within 15% of set pressure
125A-150A	Within 20% of set pressure

Nominal size	Offset pressure
15A-50A	Within 20% of set pressure
65A-150A	Within 25% of set pressure

## GD-4B Nominal Size Selection Chart (For Air)



\* Set the safety factor at 80 to 90%.