

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.

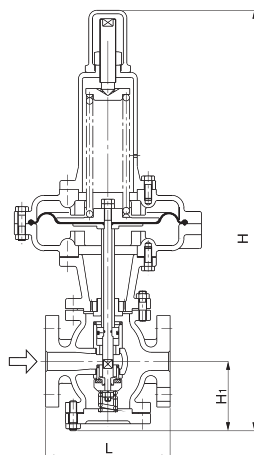
Use on a compressed air system with dry air from oil-free compressors may cause deterioration of rubber parts in a very short time (ozone crack). Please consult with us before such installation.

■ Dimensions (mm) and Weights (kg)

| Nominal size | L | H | | H ₁ | 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 depending on diaphragm diameter. (Ha: φ256 Hb: φ340, φ400)

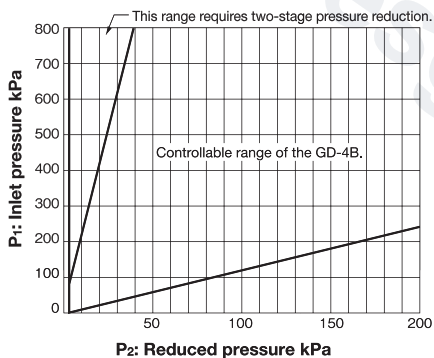
Note) diameter is 256. Please add 5kg for The value of product weights are when diaphragm 340, and 9kg for φ400.



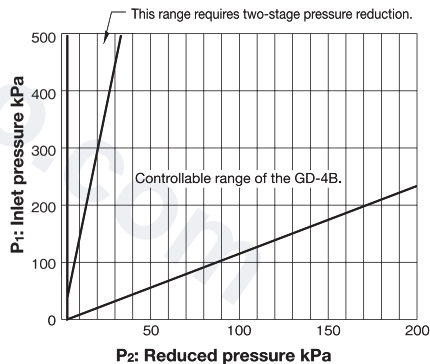
Structure will be different depending on nominal size and diaphragm diameter.

GD-4B Specifications Selection Chart

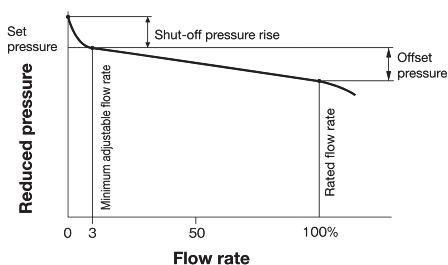
· Nominal size 15A-50A



· Nominal size 65A-150A



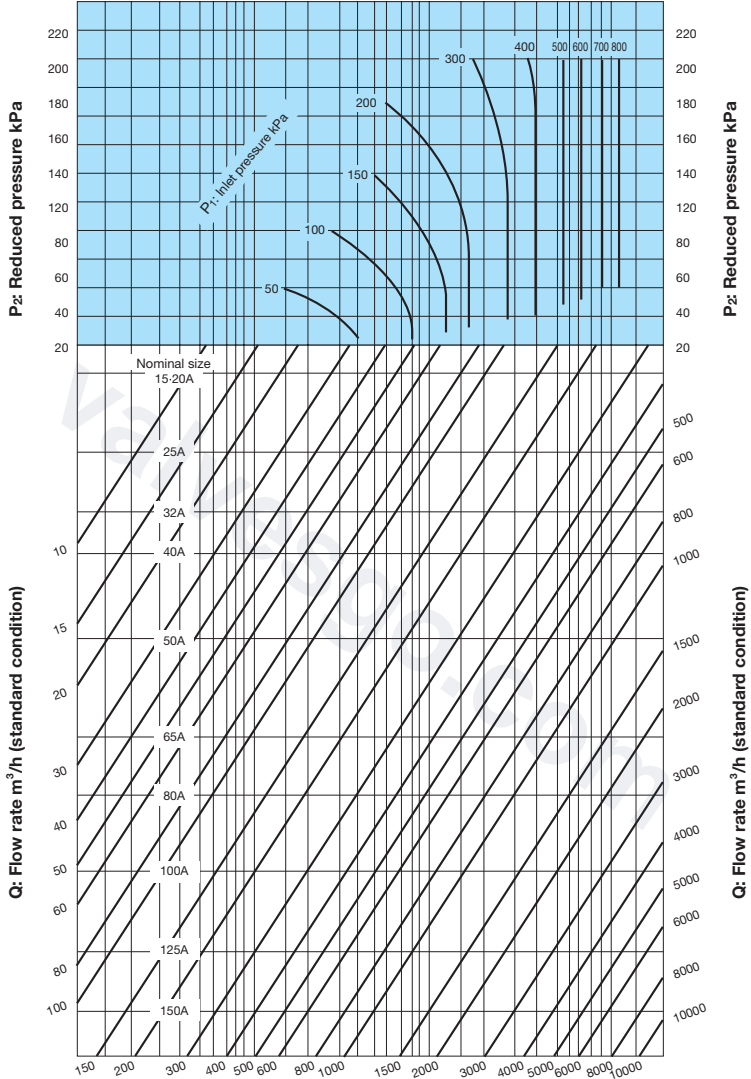
Flow Characteristic Chart



| 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%.