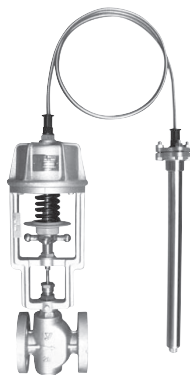


OB-2,2G

| | | | |
|--------------------|---------------------|--------------|--------------|
| Direct acting type | Pilot operated type | Heating | Cooling |
| Bellows | Diaphragm | Single valve | Double valve |
| Soft seat | | | |



■Features

1. No need for adjusting tool due to the attached adjusting handle, making adjustment easy.
2. Double valve structure offers larger flow rate than single valve type.
3. Excellent accuracy since special packing is used for spindle gland packing which affects opening/closing operation of the valve.
4. The OB-2G ensures distinguished temperature resistance due to an external pressure type bellows.

■Specifications

| Model | | OB-2 | OB-2G |
|-----------------------------|-------------------|---|-------------------------------|
| Application | Heating | Steam, Hot water | |
| | Heated | Cold and hot water, Oil, Non-dangerous fluids | |
| Maximum pressure | Body | 15A-40A: 0.7 MPa (1.0 MPa) | |
| | | 50A: 0.5 MPa (0.7 MPa) | |
| | | 65A: 0.5 MPa (0.7 MPa) | |
| | | 80A: 0.4 MPa (0.5 MPa) | |
| | | 100A: 0.4 MPa | |
| | | 125A: 0.2 MPa (0.35MPa for OB-2) | |
| | | 150A: 0.2 MPa | |
| | Thermal bulb | 1.0 MPa | |
| Max. temperature | | 180°C | |
| Temperature adjusting range | For liquid | 40-120°C | 15-100°C |
| | For air | 40-120°C | 15-100°C |
| Ambient temperature | | Set temperature -10°C or less | Set temperature +30°C or less |
| Material | Body | Cast iron | |
| | Valve, valve seat | Phosphor bronze (stainless steel) | |
| | Valve spindle | Stainless steel | |
| | Bellows | Phosphor bronze | |
| | Thermal bulb | Stainless steel | |
| Standard capillary length | | 15A-80A: 2 m | 100A-150A: 3 m |
| Connection | | JIS 10K FF flanged | |

* Valve seat leakage: Refer to P.18-43.

* If the ambient temperature is higher than the set temperature or less than 40°C, use the OB-2G (with external pressure type bellows).

* If using at a pressure higher than 0.5 MPa, with stainless steel trim parts is recommended.

· Available with capillary of up to 5 meter. (Please refer to P.18-46 for errors of set temperature).

· Available with Max. temperature inside []. (Valve and valve seat material, and bellow is different from standard type).

· Available with temperature adjusting range of 30°C. (For OB-2 only).

· Available with thermal well (SUS304 made or with a PTFE cap) for liquid.

Temperature Adjusting Range

OB-2

| Temperature adjusting (°C) | | Withstand temperature (°C) |
|----------------------------|---------|----------------------------|
| For liquid | For air | |
| 40-60 | 40-60 | 70 |
| 50-70 | 50-70 | 80 |
| 60-80 | 60-80 | 90 |
| 80-100 | 80-100 | 110 |
| 100-120 | 100-120 | 130 |

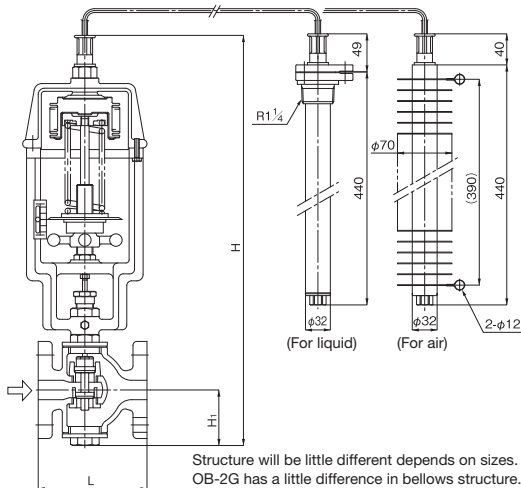
The term "withstand temperature" means the temperature from pressure resistance of the bellows.

OB-2G

| Temperature adjusting (°C) | | Withstand temperature (°C) |
|----------------------------|---------|----------------------------|
| For liquid | For air | |
| 15-35 | 15-35 | 50 |
| 20-40 | 20-40 | 50 |
| 35-55 | 35-55 | 70 |
| 40-60 | 40-60 | 90 |
| 50-70 | 50-70 | 100 |
| 60-80 | 60-80 | 110 |
| 70-90 | 70-90 | 120 |
| 80-100 | 80-100 | 130 |

The term "withstand temperature" means the temperature from pressure resistance of the bellows.

Dimensions (mm) and Weights (kg)

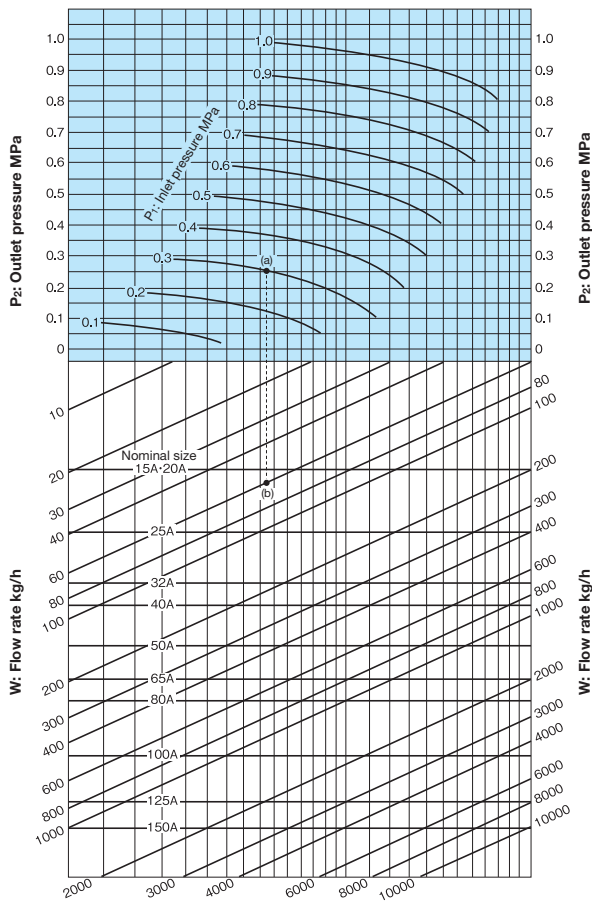


(mm)

| Nominal size | L | H ₁ | H | Weight |
|--------------|-----|----------------|-----|--------|
| 15A | 126 | 60 | 520 | 15 |
| 20A | 130 | 60 | 520 | 16 |
| 25A | 140 | 70 | 540 | 18 |
| 32A | 150 | 75 | 550 | 21 |
| 40A | 160 | 75 | 550 | 23 |
| 50A | 180 | 110 | 620 | 29 |
| 65A | 215 | 125 | 650 | 38 |
| 80A | 260 | 135 | 670 | 48 |
| 100A | 300 | 160 | 750 | 58 |
| 125A | 360 | 190 | 810 | 76 |
| 150A | 382 | 220 | 980 | 125 |

The OB-2G comes in nominal size up to 125A.

■OB-2, 2G Nominal Size Selection Chart (For Steam)



How to use the chart

When selecting the nominal size of a temperature regulator whose inlet pressure (P₁), outlet pressure (P₂), and steam flow rate are 0.3 MPa, 0.25 MPa, and 60 kg/h, respectively, first find intersection point (a) of the inlet pressure of 0.3 MPa and the outlet pressure of 0.25 MPa. Trace down vertically from this intersection point (a) to find intersection point (b) with the flow rate of 60 kg/h.

Since this intersection point (b) lies between nominal sizes 15A or 20A and 25A, select the larger one, 25A.

* Chart of the flow rate is a reference value.