

Regulator Flame-resistant series

# R3000/R4000/R8000-G4 Series

● Port size: 1/4 to 1

JIS symbol 

RoHS CAD

## Specifications

| Item | | R3000-G4 | R4000-G4 | R8000-G4 |
|---|---|---|---|---|
| Working fluid | | Compressed air | | |
| Max. working pressure | MPa | 1.0 (≈150 psi, 10 bar) | | |
| Proof pressure | MPa | 1.5 (≈220 psi, 15 bar) | | |
| Ambient / fluid temperatures | °C | 5 (41°F) to 60 (140°F) | | |
| Set pressure | MPa | 0.05 (≈7.3 psi, 0.5 bar) to 0.85 (≈120 psi, 8.5 bar) | | |
| Pressure relief | | With relief mechanism | | |
| Port size | Rc,NPT,G | 1/4,3/8<br>(1/2 uses an adaptor) | 1/4,3/8,1/2<br>(3/4 uses an adaptor) | 3/4,1<br>(1 1/4 uses an adaptor) |
| Weight | kg | 0.52 | 0.77 | 1.6 |
| Standard specifications | | Exterior: Flame-resistant material, nut for panel mounting | | Exterior: Flame-resistant material |

## Option weight

* Add to the weight of the standard accessories.

Unit: kg

| Code | Pressure gauge | Pipe adaptor set | | | | | | Attachment | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | T* | A8*W | A10*W | A15*W | A20*W | A25*W | A32*W | BW | B3W | G49P | G59P |
| R3000-G4 | 0 | 0.16 | 0.16 | 0.16 | | | | 0.17 | 0.07 | 0.086 | 0.115 |
| R4000-G4 | 0 | 0.16 | 0.16 | 0.16 | 0.16 | | | 0.21 | 0.11 | 0.086 | 0.115 |
| R8000-G4 | 0 | | | | 0.53 | 0.53 | 0.53 | 0.36 | | 0.086 | 0.115 |

## How to order

**R3000** – **8** ( ) – **G4** – **LT** – ( ) – **A8W** ( )

Ⓐ Model No. | Flame-resistant | Ⓑ Port size | Ⓒ Port thread | Ⓓ Option | Ⓔ Display unit *7 | Ⓕ Pipe adaptor set (included) | Ⓖ Other attachments

* Refer to page 30 for the explanation of the option.

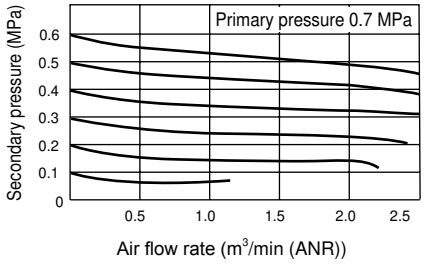
| Code | Description | Ⓐ Model No. R3000 | R4000 | R8000 |
|---|---|---|---|---|
| **Ⓑ Port size** | | | | |
| **8** | 1/4 | ● | ● | |
| **10** | 3/8 | ● | ● | |
| **15** | 1/2 | | ● | |
| **20** | 3/4 | | | ● |
| **25** | 1 | | | ● |
| **Ⓒ Port thread** | | | | *1 |
| **Blank** | Rc thread | ● | ● | ● |
| **N** | NPT thread | ● | ● | ● |
| **G** | G thread | ● | ● | ● |
| **Ⓓ Option** | | | | *2 |
| Pressure range **Blank** | 0.05 to 0.85 MPa | ● | ● | ● |
| Pressure range **L** | 0.05 to 0.35 MPa *3 | ● | ● | ● |
| Pressure relief **Blank** | With relief mechanism | ● | ● | ● |
| Pressure relief **N** | Non-relief | ● | ● | ● |
| Pressure gauge **T** | No pressure gauge (gauge port (1/4) is assembled sealed) | ● | ● | ● |
| Pressure gauge **T8** | Pressure gauge ready (gauge port (1/4) is left open) | ● | ● | ● |
| Flow direction **Blank** | Standard flow (left → right) | ● | ● | ● |
| Flow direction **X1** | Reverse flow (right → left) | ● | ● | ● |
| **Ⓔ Display unit** | | | | |
| **Blank** | MPa display (Rc thread), psi display (NPT thread), bar display (G thread) | ● | ● | ● |
| **J1** | MPa display (NPT, G thread) | ● | ● | ● |
| **Ⓕ Pipe adaptor set (included)** | | | | *4 Page 350 |
| **Blank** | Not included | ● | ● | ● |
| **A8*W** | 1/4 pipe adaptor set (white) | ● | ● | |
| **A10*W** | 3/8 pipe adaptor set (white) | ● | ● | |
| **A15*W** | 1/2 pipe adaptor set (white) | ● | ● | |
| **A20*W** | 3/4 pipe adaptor set (white) | | ● | ● |
| **A25*W** | 1 pipe adaptor set (white) | | | ● |
| **A32*W** | 1 1/4 pipe adaptor set (white) | | | ● |
| *** Adaptor thread** | | | | |
| **Blank** | Rc thread | ● | ● | ● |
| **N** | NPT thread | ● | ● | ● |
| **G** | G thread | ● | ● | ● |
| **Ⓖ Other attachments** | | | | *6 Pages 346, 363 |
| **Blank** | Not included | ● | ● | ● |
| **BW** | C type bracket (silver) | ● | ● | ● |
| **B3W** *5 | L type bracket (silver) | ● | ● | |
| **G49P** | G49D-8-P10(L:G49D-8-P04) | ● | ● | ● |
| **G59P** | G59D-8-P10(L:G59D-8-P04) | ● | ● | ● |

### ⚠ Precautions for model No. selection

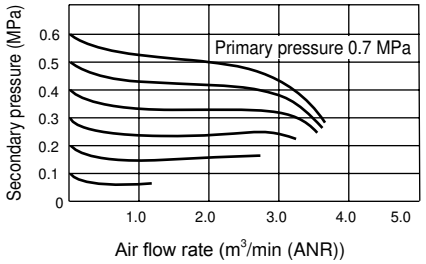
*1: When G threads or NPT threads are selected, the IN, OUT and gauge ports are the targets.
*2: When selecting options for several items, list options in order from the top.
*3: The pressure gauge's indication range is 0 to 0.4 MPa for the option "L".
*4: The pipe adaptor set and C type bracket cannot be used together.
*5: For details on mounting the L type bracket, refer to (2. Regulator) of "⚠ Cautions and Installation & Adjustment" (page 357).
*6: The pressure gauge (included) can be selected only when Ⓒ Port thread is Rc thread.
*7: Display unit options when selecting NPT threads: If Blank is selected, the pressure unit is psi and the temperature display unit is °F.
When G thread and Blank display unit option are selected, the pressure unit will be bar and the temperature display unit will be °C.
When NPT/G thread and "J1" display unit option are selected, the pressure unit will be MPa and the temperature display unit will be °C.

## Flow characteristics

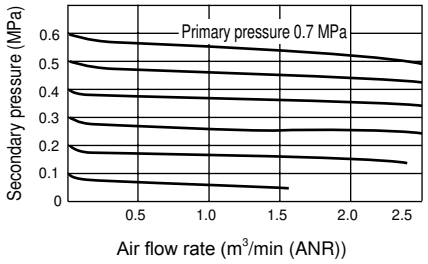
● R3000-8-G4



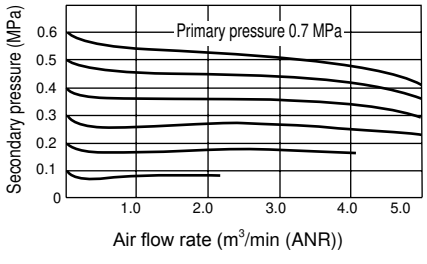

● R3000-10-G4



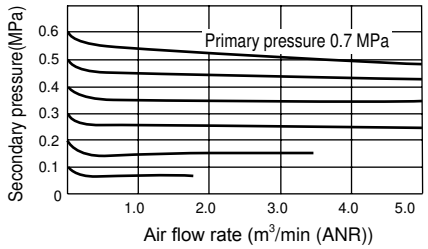

● R4000-8-G4



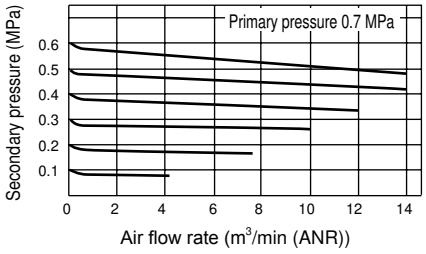

● R4000-10-G4



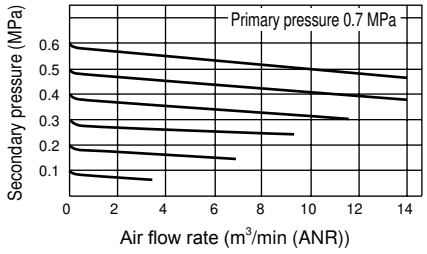

● R4000-15-G4




● R8000-20-G4

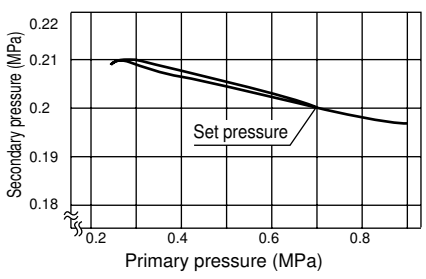



● R8000-25-G4

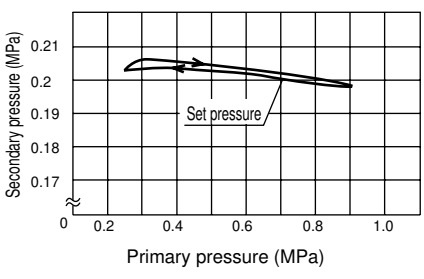



## Pressure characteristics

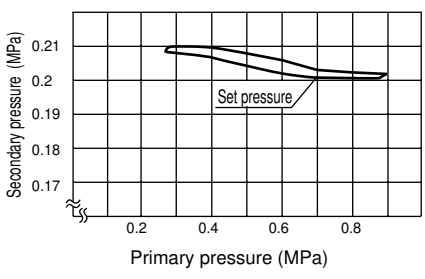
● R3000-G4




● R4000-G4

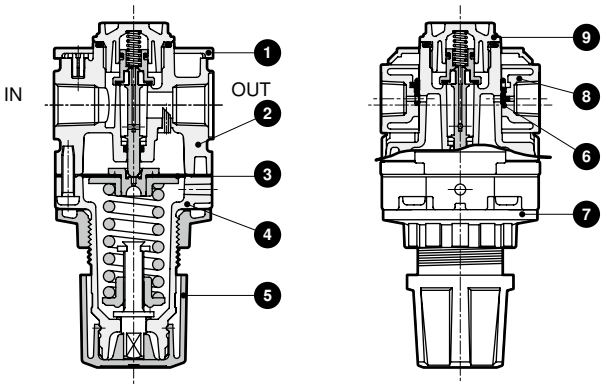



● R8000-G4

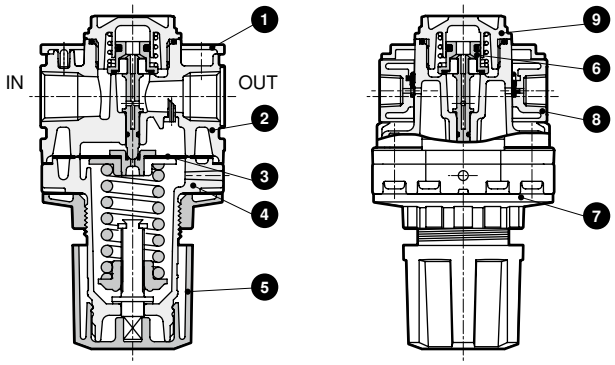


## Internal structure and parts list

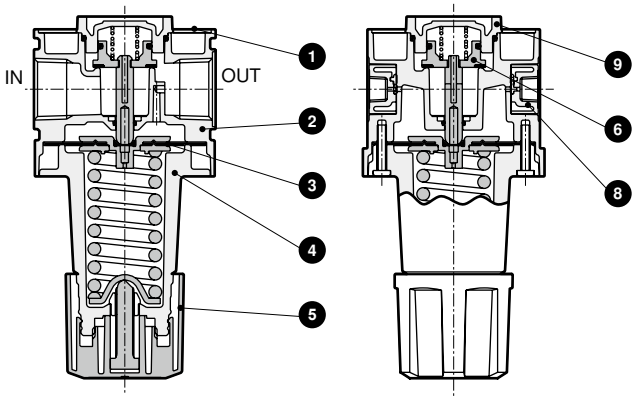
● R3000-G4




● R4000-G4




● R8000-G4




| No. | Part name | Material | | |
|---|---|---|---|---|
| | | R3000-G4 | R4000-G4 | R8000-G4 |
| 1 | Plate cover | ABS resin (*1) | | |
| 2 | Body | Aluminum alloy die-casting | | |
| 3 | Diaphragm assembly | Zinc alloy die-casting, nitrile rubber | | |
| 4 | Cover | Aluminum alloy die-casting | | |
| 5 | Knob | PBT resin (*1) | | |
| 6 | Valve assembly | Copper alloy, hydrogenated nitrile rubber, polyacetal resin | | |
| 7 | Mounting nut | PBT resin (*1) | | - |
| 8 | Gauge plug assembly | Polyamide resin (*1), nitrile rubber, steel | | |
| 9 | Bottom plug | Aluminum alloy die-casting | | |

*1: Flame-resistant resin, UL94 Standards V-0 or equivalent
*2: Refer to page 286 for repair parts.