

# RIGAS specialty gas regulator – G series

## <Instruction Manual>

### 1. INTRODUCTION

This product is a gas regulator which is used to regulate the high pressure of the gas supplied by the gas cylinder to the pressure required by the user.

Before using the regulator, read this manual thoroughly, to prevent the product malfunction and user injury by inappropriate operation.

### 2. Specification

Code	Material	Stage	Inlet pressure gauge	Pressure control range	Inlet connections (Nut type)	Outlet connections (Male connector)
G	B : Brass S : SUS	1 : 1 Stage 2 : 2 Stage	25 : 25 MPa	06 : 0.6 MPa 10 : 1.0 MPa	R : 22 mm–RH L : 22 mm–LH C : CGA350 N : no option E : etc.	0 : no option 1 : 1/4 inch 2 : 1/8 inch 3 : 1/16 inch 4 : etc.

### 3. HOW TO USE THE REGULATOR

- ① Attach the regulator to the gas cylinder valve that you want to use.
- ② When installing the regulator, make the angle of the pressure gauge 45 degree.
- ③ Turn the pressure adjusting knob of the regulator in DECREASE direction(anti-clockwise) to the end.
- ④ Open the gas cylinder valve slowly.
- ⑤ Turn the pressure adjusting knob of the regulator in INCREASE direction(clockwise) to a desired flow-rate.
- ⑥ When you finish using the regulator, check the pressure gauge of the regulator after closing the gas cylinder valve completely.
- ⑦ When the pressure gauge displays 0 MPa, turn the pressure adjusting knob of the regulator in DECREASE direction(anti-clockwise) to the end.
- ⑧ After separating the regulator from the gas cylinder, keep the regulator by inserting the plugs into the both ends of the regulator provided when purchasing.

#### 4. PRECAUTIONS FOR SAFE OPERATION

- ① Use the unit in a well-ventilated place.
- ② Do not close to oil, moisture, dust, fire and do not give impact on the regulator.
- ③ Do leakage test at joint part regularly.
- ④ Working pressure range is within 2/3 of maximum pressure scale in pressure gauge.
- ⑤ When use the regulator, please install the regulator in gas cylinder at a 45 degree angle.
- ⑥ Inject the gas by opening the valve slowly. If the gas cylinder is opened suddenly, the regulator may get extreme pressure.
- ⑦ If the gas cylinder is opened suddenly, the regulator gets extreme pressure and the pressure gauge is damaged easily. After turning the pressure adjusting knob of the regulator in DECREASE direction (anti-clockwise) to the end, open the cylinder valve slowly and inject gas.
- ⑧ The regulator for corrosive gases, check a performance and the parts conditions regularly.
- ⑨ When use corrosive gases, please check a performance and the parts conditions regularly.
- ⑩ Do not disassemble the regulator arbitrarily. If the passed seal is damaged, exchange and repair may not be impossible.
- ⑪ If the undermentioned troubles happened with the regulator, stop operation and consult with us.
  - The pointer of pressure gauge does not move at all, even after the valve is regulated.
  - The pointer of pressure gauge is not stabilized and shakes.
  - Gas is leaking, when gas is let in.

#### 5. MAINTENANCE & STORAGE

- ① For a long service life of the regulator, follow these instructions.

Immediately after each use, attach the regulator to Nitrogen (N<sub>2</sub>) gas cylinder, and then clean the regulator with nitrogen at 0.1 MPa ~ 0.2 MPa for a few minutes.
- ② After inserting the plugs into the both ends of the regulator, store the regulator with the supplied drying agent in a sealed vinyl bag, when it is not used for more than 30days.
- ③ Store the regulator at room temperature.

#### 6. Manufacturer Information

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