



Constant Flow Valve for Liquids

MODEL 2600-S SERIES

Instruction Manual

Thank you for your selection of “KOFLOC Constant Flow Valve for Liquids.”
Prior to use, read this manual thoroughly to ensure your new valve will work to its
fullest capacity.



CAUTION

This product is designed for controlling the flow of liquids and its working pressure is 0.1 to 0.5 MPa and pressure resistance is 0.7 MPa.

The use of the product at a pressure above the maximum limit could result in personal injury. Be sure to use the product within the specifications.

Foreword

Thank you for your selection of the stainless steel-made constant flow valve for liquids Model 2600-S Series.

- The contents of the manual are subject to change without notice.
- The manual has been created meticulously. Should, however, you notice any deficiencies, errors or omissions, you are kindly requested to notify us.
- The warranty period of this product is one (1) year after shipment.
- Failures attributable to KOFLOC which may occur during the warranty period will be remedied free of charge.
- KOFLOC shall not be held responsible whatsoever for breakdown or trouble of equipment which results from negligence of the precautions described in this manual or using the product by methods other than the described procedures.

1. Features

Model 2600-S is a constant flow valve for liquids and chemicals with its areas in contact with liquids made of SUS316, FKM, FFKM and PTFE. Consistent constant flow control can be achieved by turning the flow rate setting knob even if the primary pressure/load pressure fluctuates.

2. Installation and Piping

Install the valve with its bubble removing mechanism facing up (flow rate setting knob facing sideways).

Mount the body and panel with M4 screws. (Thread depth 7 mm)

Connect the pipe and the body after flushing the pipe fully.

3. Bubble Removal

Prior to setting the flow rate, it is necessary to remove bubbles from inside the constant flow valve.

Turn the flow rate setting knob clockwise to set the flow stop and turn the bubble removing valve counterclockwise. Then after making sure bubbles have been removed completely (after about one minute), close the valve.

4. Flow Rate Adjustment

Adjust the flow rate by turning the flow rate setting knob. Turning it counterclockwise (OPEN) increases the flow rate and turning it clockwise (CLOSE) decreases the flow rate.

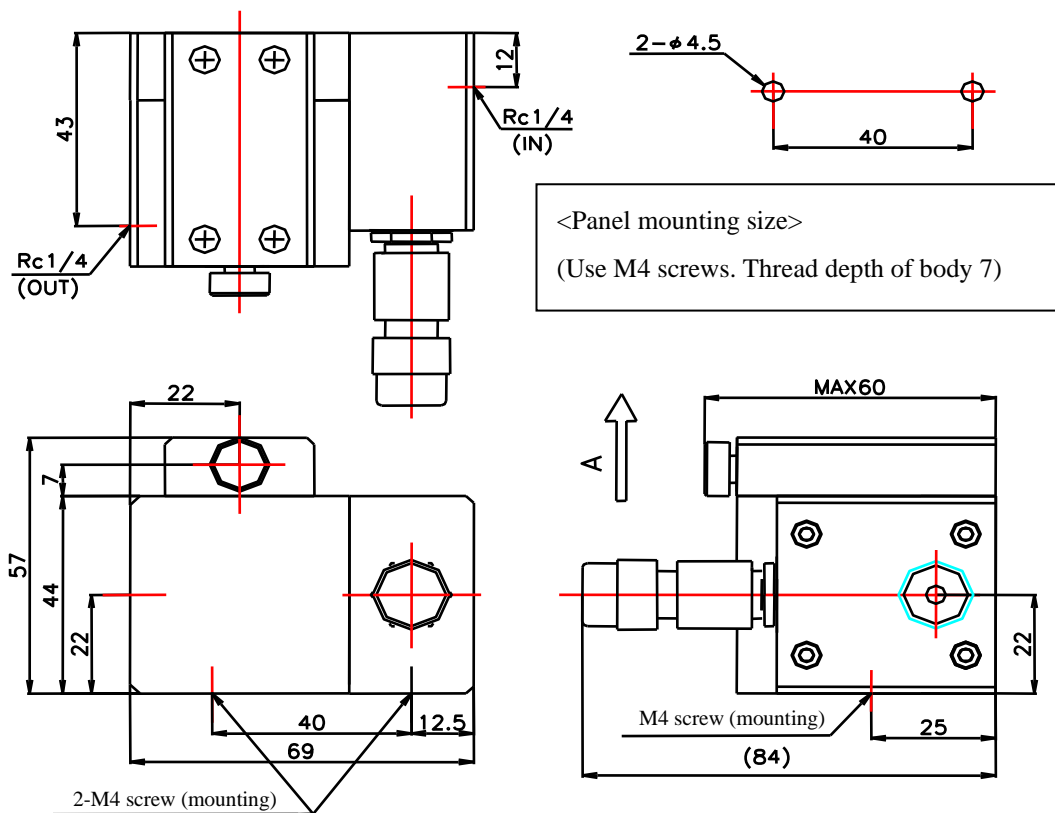
5. Precautions

- 1) When you store the product at your company, install it in a line, remove it from a line, or test it after installing it in a line for adjustment, always keep the IN and OUT ports free of dust. Also prior to connection, flush the pipe completely to ensure no dust or dirt will enter the valve. It may become necessary to install a filter on the IN side depending on conditions of use.
- 2) Do not try to turn the flow rate setting knob beyond the stop position by undue force. Otherwise, the needle part will be broken to disable flow control.
- 3) The specifications and external dimensions are subject to change without notice.
- 4) Adjustment and calibration of the valve at KOFLOC are carried out with water.
- 5) If the valve is to be used with a liquid (mixed liquid, special liquid) other than water or used at temperature other than normal temperature, always test the valve for operation and accuracy prior to use.
- 6) When the valve is returned to KOFLOC for repair or because of failure, KOFLOC will take appropriate action after verifying the liquid used. Please note that in some cases, KOFLOC may not be able to meet your request.

【Specifications】

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| Model | MODEL2600-S |
| Liquid | H ₂ O (equivalent to tap water) |
| Flow rate rating (in terms of H ₂ O) | 1 – 10 mL/min 10 – 100 mL/min 50 – 500 mL/min 0.1 – 1 L/min |
| Control accuracy | ±3% (FULL SCALE) Note: The control accuracy is warranted subject to the condition that the liquid temperature is constant because its viscosity varies according to temperature. |
| Operating pressure difference | 0.1 MPa min. |
| Working pressure | 0.1 – 0.5 MPa(G) |
| Pressure resistance | 0.7 MPa(G) |
| Materials of areas in contact with liquid | SUS316, FKM, FFKM, PTFE |
| Max. working temperature | 15 – 35°C |
| Connecting port | Rc1/4 |

【Dimensions】



* It is recommended that the valve be installed with the A part facing up (to remove bubbles).

【Accessory】

The following accessory will be included with each unit of the constant flow valve:

- Instruction manual 1 copy
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【Product Warranty Policy】

Thank you for your continued support of KOFLOC products.

Unless specified otherwise in quotations, contracts or specifications when you place orders for KOFLOC products, the following warranty policy will apply.

Warranty Policy:

① Warranty period

The warranty period is one (1) year from shipment, provided that the product is used within the KOFLOC specification.

② Scope of warranty

If the KOFLOC product fails during the warranty period due to a cause attributable to KOFLOC, KOFLOC shall, at its option and expense, provide a replacement product or repair the failed product at the KOFLOC factory.

This warranty, however, shall not cover damages due to a cause not attributable to KOFLOC; opportunity loss, lost profit, secondary disaster, accident compensation suffered by the customer and damage to other equipment and any other damages due to a failure of the KOFLOC product.

③ Non-warranty

The warranty shall not apply to the following failures and damages even if they occur during the warranty period:

- ① Failure due to misuse or improper repair or modification. (Failures resulting from use under conditions different from the manufacturing specifications are included.)
- ② Damage and failure due to dropping of the product after purchase.
- ③ Failure due to fire, earthquake, flood, lightning or other natural disaster; or riot, war or the like.
- ④ Failure due to intrusion of foreign matter from piping.
- ⑤ Failure caused by a specific problem due to combination with other incorporated equipment.
- ⑥ Other failures and damages which are considered not attributable to KOFLOC.

Please be aware that the warranty shall not cover opportunity loss suffered by you or your customer or damage to other equipment or any other damages due to a failure of the KOFLOC product.