



Flowmeter with Precision Needle Valve (for Accurate Flow Control)

# MODEL RK1200 SERIES

This is a grade high precision float type flowmeter combined with a needle valve capable of very accurate flow control. It is ideal for measurement and control of minute flows.

## Features

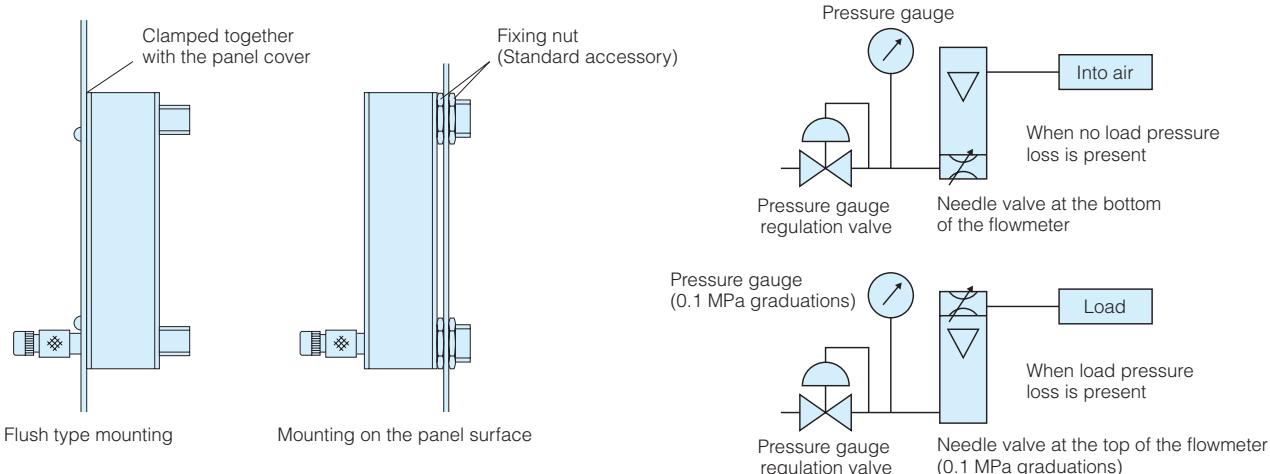
- Capable of controlling ultra-minute flows
- A needle valve incorporated to maximize precision control of flows
- Two types of valve arrangement available: at the top or bottom of the meter at the user's choice
- Wide variations

## Applications

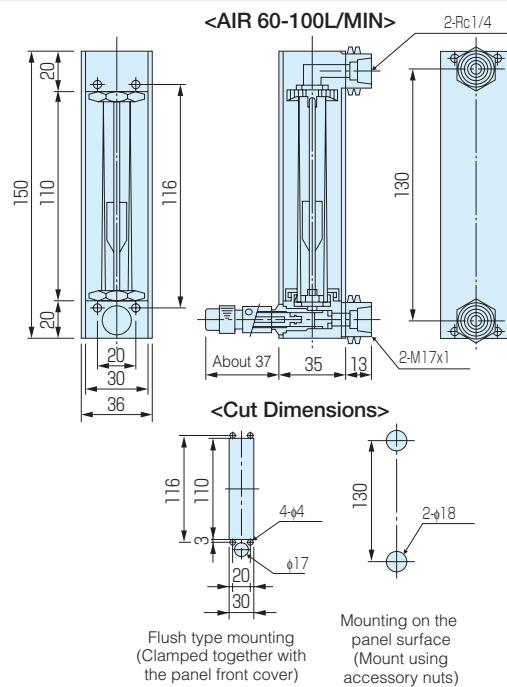
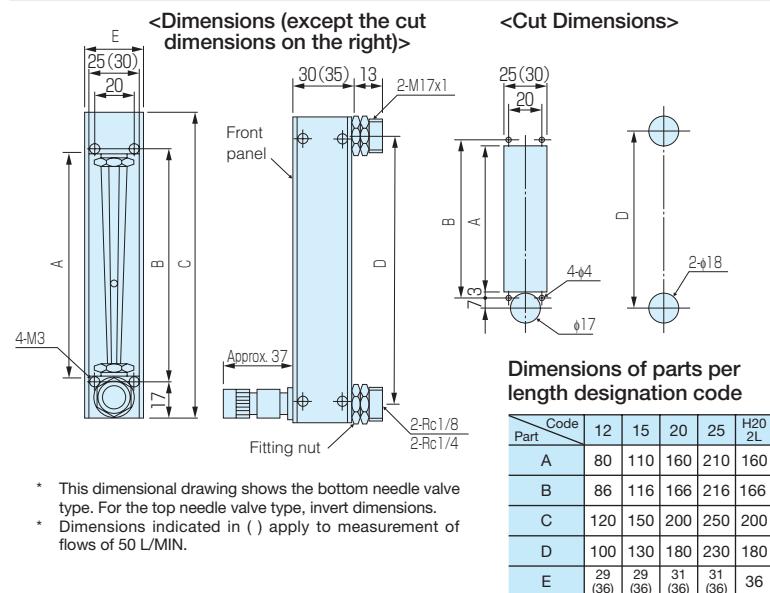
- For integration into your equipment panel
- For gas devices to be used on the semiconductor manufacturing site
- For biotechnology industries
- For vacuum line control



## Layout Example with Model RK1200



## Dimensions



## Standard Specifications

	Gases	Liquids
Fluids	Air, N <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> , He, Ar, and CO <sub>2</sub> (Calibration by actual gas) For other gases, consultation is necessary regarding whether conversion conditions or calibration by actual gas is to be used. * Optional: Scale indicating two types of fluids	Standard fluid: Water For other liquids, consultation is necessary regarding whether conversion conditions or calibration by actual liquid is to be used.
Flow range	0.5-5 ML/MIN to 10-100 L/MIN (See the Capacity Table below.) * Optional: 0.5-3 ML/MIN	0.5-5 ML/MIN to 0.2-2 L/MIN (See the Capacity Table below.) * Optional: 0.5-3 ML/MIN
Accuracy	FS±2% (Measurement point) * Optional: FS±1% (Measurement point)	FS±2% (Measurement point)
Proof pressure	1.0 MPa for 100 ML/MIN or less 0.7 MPa for 5 L/MIN or less 0.5 MPa for 10 L/MIN or more	1.0 MPa for 5 ML/MIN or less 0.7 MPa for 150 ML/MIN or less 0.5 MPa for 200 ML/MIN or more
Available scale	10:1 * Optional: 20:1	
Materials	SS	BS
Body block	SUS316	Brass
Tapered tube	Pyrex®, glass	
Packing	Viton®	NBR
Float	Pyrex, SUS316, SUS304, glass	
Protective cover	Acrylic resin	
Temperature resistance	MAX60°C	
Connection end	Rc1/4 (Standard); Rc1/8 (Optional)	

## Capacity Table

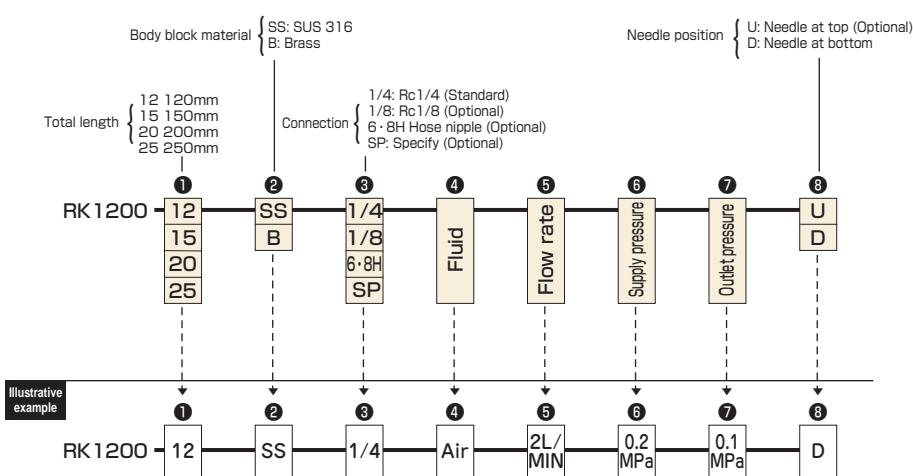
Air (Flow rate at atmospheric pressure)

Max. flow rate \ Total length	5	10	20	30	50	100	150	200	300	500	1	2	3	5	10	15	20	30	50	100
ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	L/MIN									
120mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—
150mm	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200mm	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—
250mm	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—

H<sub>2</sub>O

Max. flow rate \ Total length	5	10	20	30	50	100	150	200	300	500	1	2
ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	L/MIN	L/MIN
120mm	○	○	○	○	○	○	○	○	○	○	○	—
150mm	○	○	○	○	○	○	○	○	○	○	○	○
200mm	○	○	○	○	○	○	○	○	○	○	○	○
250mm	○	○	○	○	○	○	○	○	○	○	○	—

## Ordering



\* Refer to "Ordering" and "Illustrative Example" when placing an order or requesting a quotation. Fill in the blanks in the "Order/Quotation Request Card" at the end of the catalog, and send the card by fax.

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