



# High-Precision Flowmeter (for Sensitive Measurements)

## MODEL RK1450 SERIES

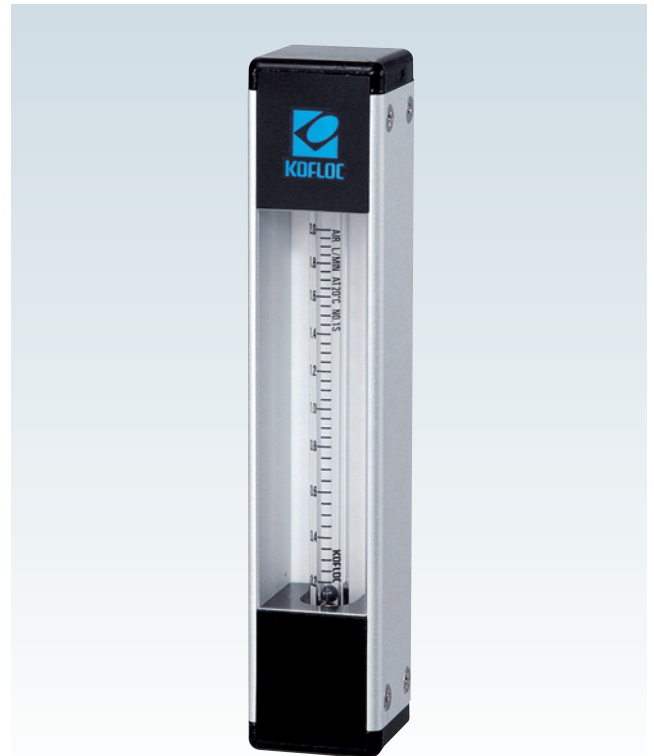
This top-grade high-precision area flowmeter is a fruit of KOFLOC's challenge to boost the general perception currently conceived by people of flowmeter of being a "mere yardstick" into a new conception that a flowmeter is a "precision instrument." This flowmeter particularly features its uniquely precision-formed glass tube and ultra-precision ball float.

### Features

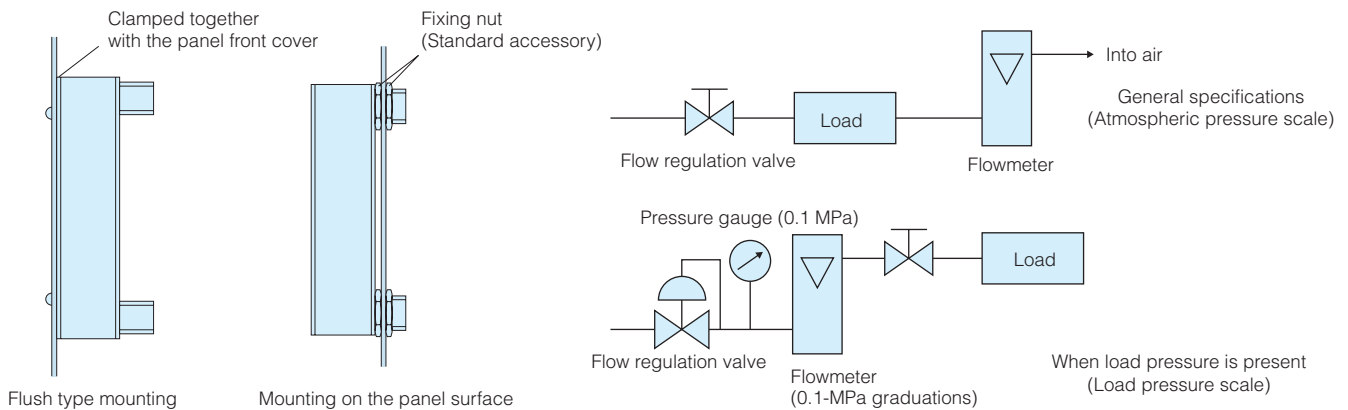
- Capable of measuring ultra-minute flows**  
 Can measure a wide range of flows from ultra-minute flows of 0.5-3 ML/MIN to flows of 3-30 L/MIN.
- High precision measurement**  
 High precision measurement of flows is available up to  $\pm 2\%$  of full scale (standard specification) or to  $\pm 1\%$  of full scale (optional specification).
- Wide variations**  
 A broad range of variations is available in total length, materials of construction, flow rate, pressure, scale, and so forth to meet diverse applications from a variety of fields.
- Capable of measuring all kinds of gases**  
 Practically all kinds of gases can be measured, not to mention those standard (Air, N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>, He, Ar and CO<sub>2</sub>).
- Measurement of water flows also possible**  
 Measurement of full-scale water flows not exceeding 1 L/MIN is also possible. (Dimensions may vary depending upon the specified maximum flow rate.)

### Applications

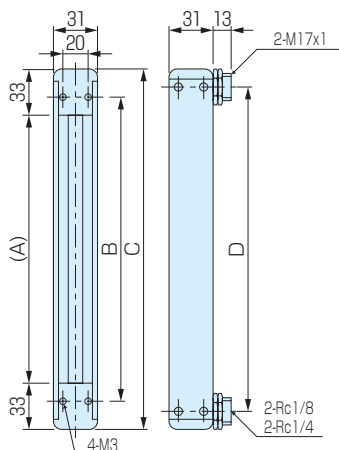
- For integration into your equipment panel
- For flow inspections at laboratory
- For semiconductor manufacturing equipment
- For biotechnology industries



### Layout Example with Model RK1450

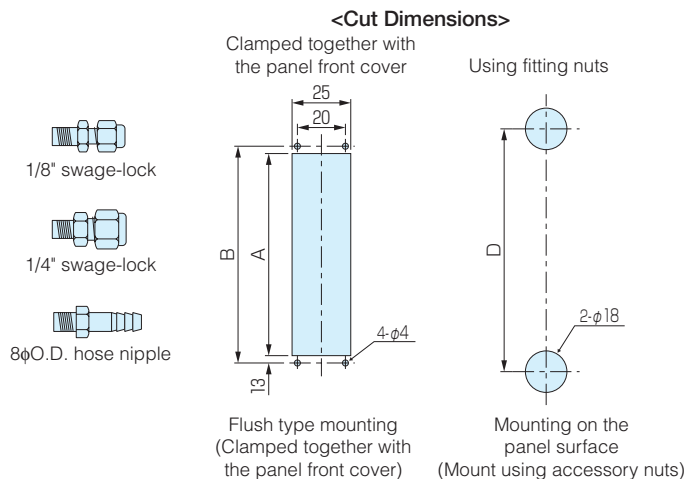


### Dimensions



Dimensions of parts per length designation code

Part	Code	12	15	20	25
A		60	90	140	190
B		86	116	166	216
C		126	156	206	256
D		100	130	180	230



## 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 3-30 L/MIN (See the Capacity Table below.) * Optional: 0.5-3 ML/MIN	0.5-5 ML/MIN to 0.1-1 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 <sup>®</sup> , glass	
Packing	Viton <sup>®</sup>	NBR
Float	Pyrex, SUS316, glass	
Protective cover	Acrylic resin	
Temperature resistance	MAX60°C	
Connection end	Rc1/4 (Standard); Rc1/8 (Optional)	

## Capacity Table

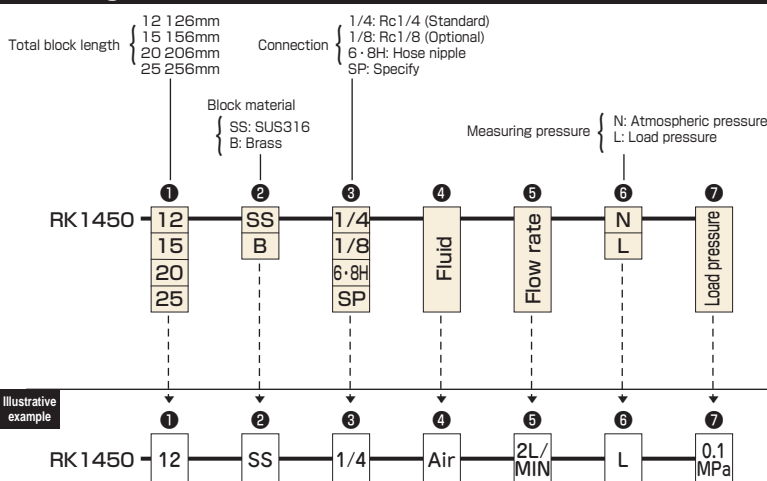
### Air (Flow rate at atmospheric pressure)

Max. flow rate	5	10	20	30	50	100	150	200	300	500	1	2	3	5	10	15	20	30	
Total length	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN
126mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
156mm	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
206mm	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
256mm	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○

### H<sub>2</sub>O

Max. flow rate	5	10	20	30	50	100	150	200	300	500	1
Total length	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	L/MIN
126mm	○	○	○	○	○	○	○	○	○	○	○
156mm	○	○	○	○	○	○	○	○	○	○	○
206mm	○	○	○	○	○	○	○	○	○	○	○
256mm	○	○	○	○	○	○	○	○	○	○	○

## 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.