



# High-Precision Flowmeter (for Sensitive Measurements)

## MODEL RK1400 SERIES

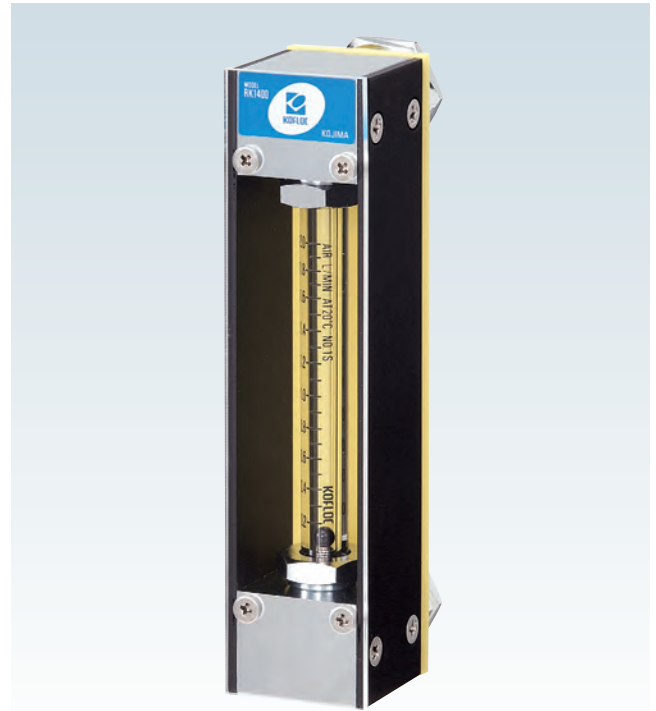
This top-grade high precision, float type area flowmeter is a fruit of KOFLOC's challenge to boost the general perception currently conceived by people of flowmeter of being a "mere yardstick" into a new conception that a flowmeter is a "precision instrument." This flowmeter particularly features its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

### Features

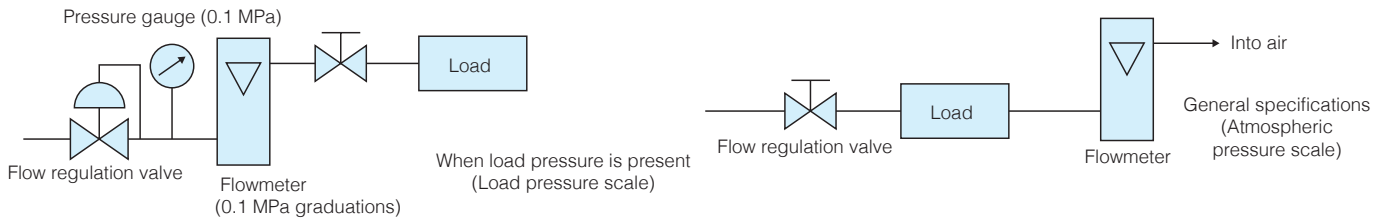
- Capable of measuring ultra-minute flows
- High precision measurement of flows
- Wide variations

### Applications

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

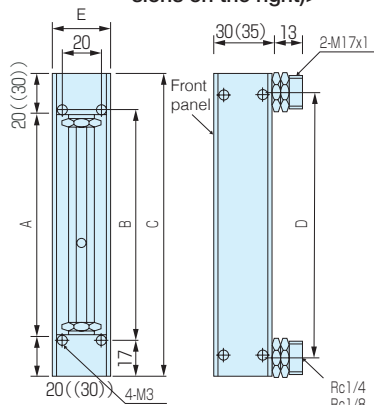


### Example of Use with Model RK1400



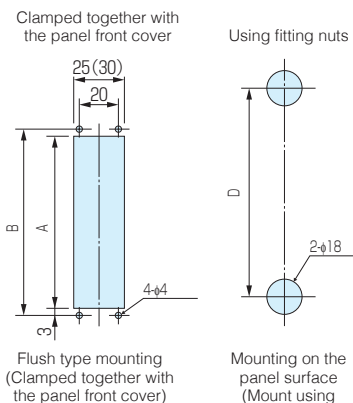
### Dimensions

<Dimensions (except the cut dimensions on the right)>

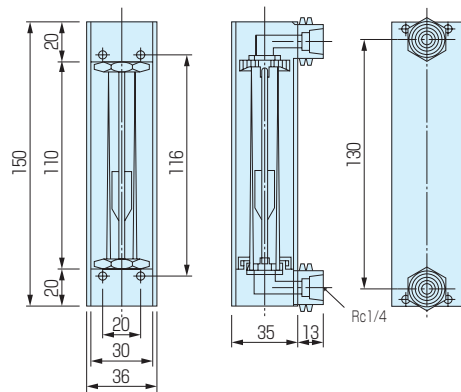


- \* Dimensions indicated in ( ) apply to measurement of flows of 50 L/MIN.
- \* Dimensions indicated in ( ( ) ) apply to measurement of H<sub>2</sub>O flows of 3 L/MIN.

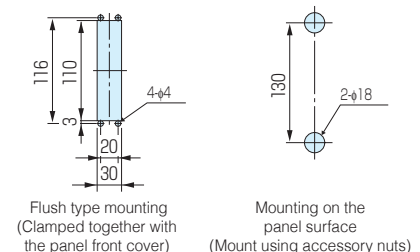
<Cut Dimensions>



<AIR 60-100L/MIN>



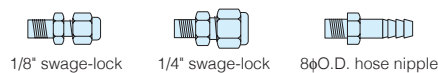
<Cut Dimensions>



### Dimensions of parts per length designation code

Part	Code	12	15	20	25	H2O 2L	H2O 3L
A	80	110	160	210	160	140	
B	86	116	166	216	166	152	
C	120	150	200	250	200	200	
D	100	130	180	230	180	180	
E	29	29	31	31	36	36	

Connection opening



## 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 0.3-3 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, SUS304	Brass
Tapered tube	Pyrex <sup>®</sup> , glass	
Packing	FKM	NBR
Float	Pyrex, SUS 316, SUS 304 or SUS 303 (for measurement of H <sub>2</sub> O in the flow range of 2-3 L/MIN only), glass	
Protective cover	Acrylic resin	
Temperature resistance	MAX60°C	
Connection end	Rc1/4 (Standard); Rc1/8 (Optional)	

## Capacity Table

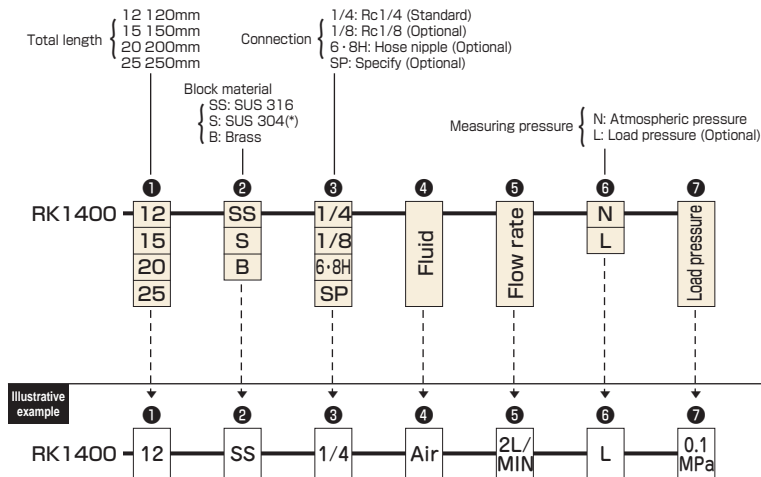
### Air (Flow rate at atmospheric pressure)

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	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/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	3
	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
120mm	○	○	○	○	○	○	○	○	○	○	○	—	—
150mm	○	○	○	○	○	○	○	○	○	○	○	○	—
200mm	○	○	○	○	○	○	○	○	○	○	○	○	○
250mm	○	○	○	○	○	○	○	○	○	○	○	—	—

## Ordering



Note: SUS 304 is for 2-3 L/MIN of water only.

\* 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.