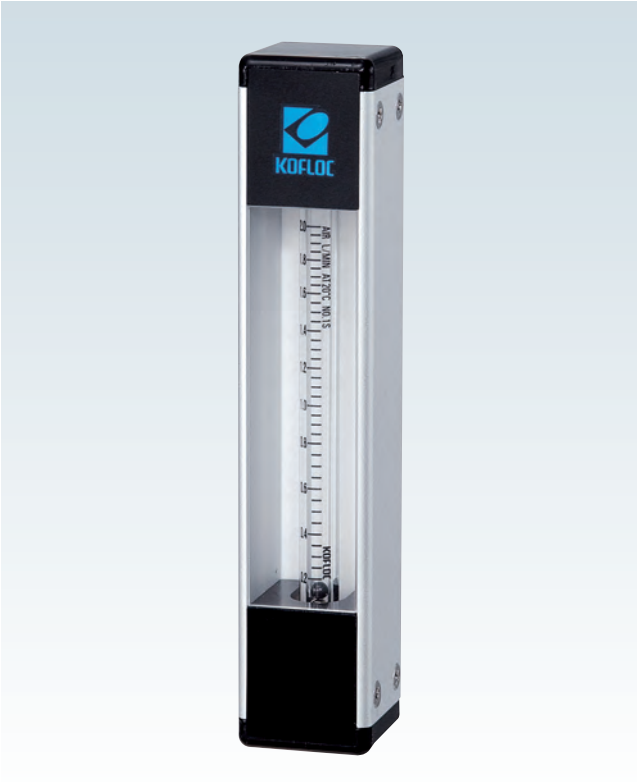
High-Precision Flowmeter (for Sensitive Measurements)
MODEL RK1450 SERIES

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.



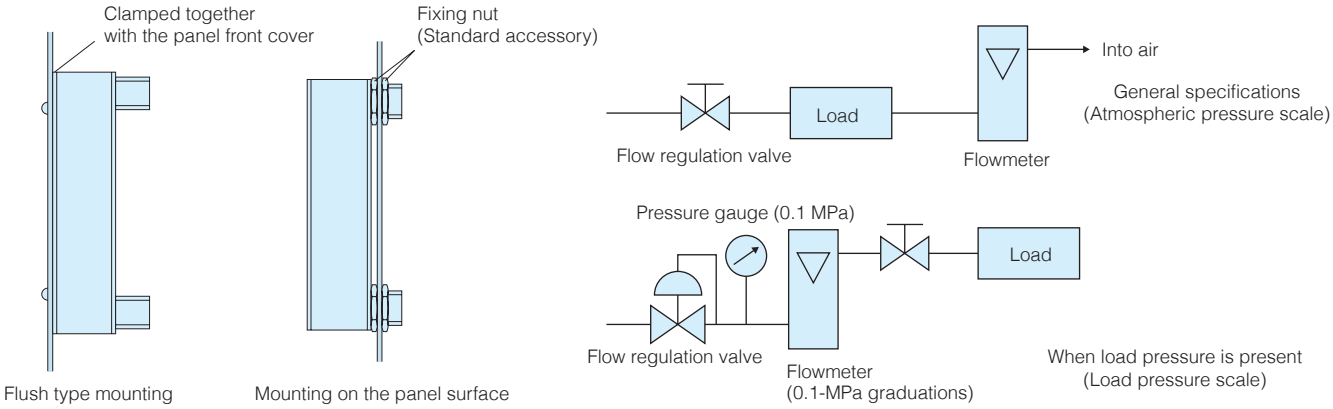
Features

- **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 ±2% of full scale (standard specification) or to ±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_2, O_2, H_2, He, Ar and CO_2).
- **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.)

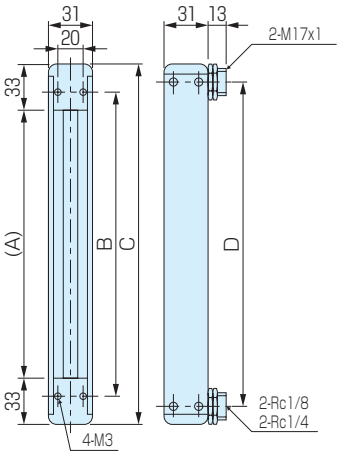
Applications

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

Example of Use with Model RK1450

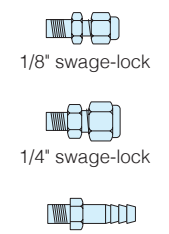


Dimensions



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



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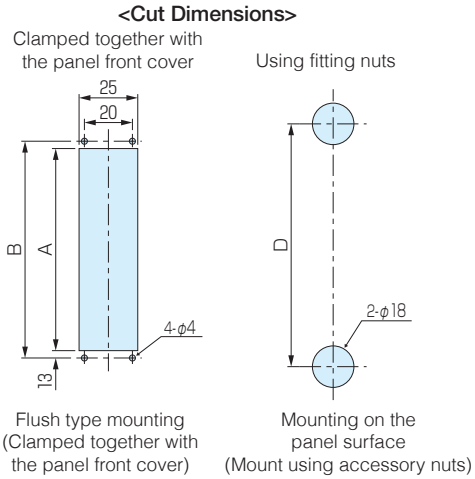


Standard Specifications

	Gases	Liquids
Fluids	Air, N_2, O_2, H_2, He, Ar, and CO_2 (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®, glass	
Packing	FKM	NBR
Float	Pyrex, SUS316, glass	
Protective cover	Acrylic resin	
Temperature resistance	MAX60°C	
Connection end	Rc1/4 (Standard); Rc1/8 (Optional)	

Capacity Table

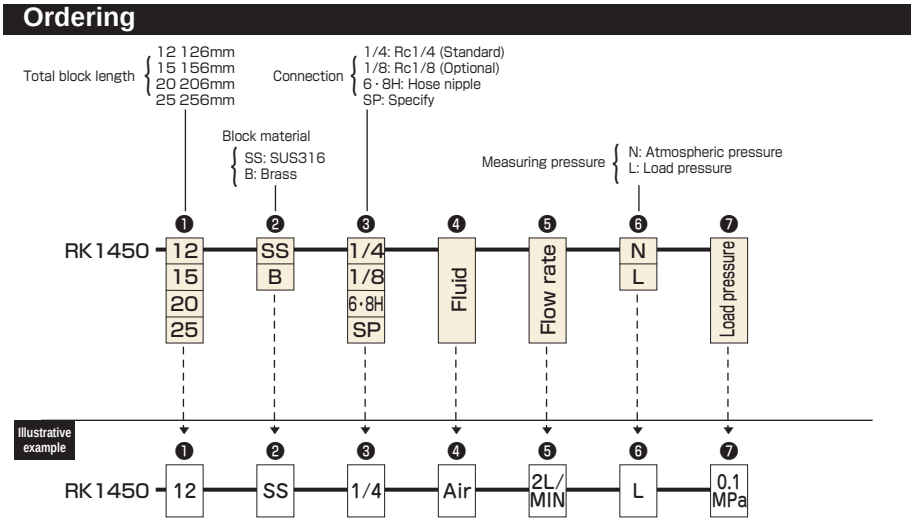
Air (Flow rate at atmospheric pressure)

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

H_2O

Max. flow rate / Total length	5 ML/MIN	10 ML/MIN	20 ML/MIN	30 ML/MIN	50 ML/MIN	100 ML/MIN	150 ML/MIN	200 ML/MIN	300 ML/MIN	500 ML/MIN	1 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.