

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.

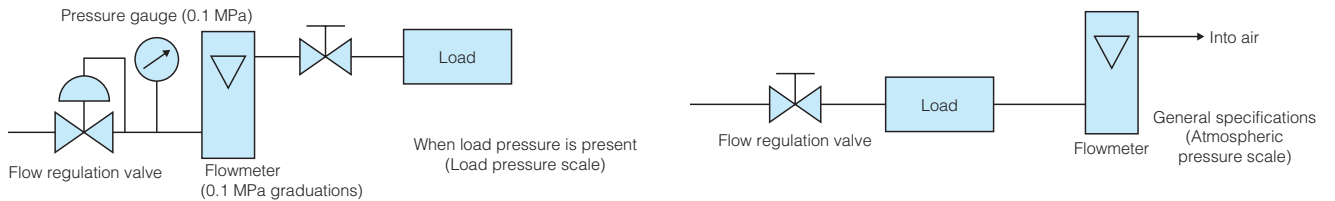


- Capable of measuring ultra-minute flows
- High precision measurement of flows
- Wide variations

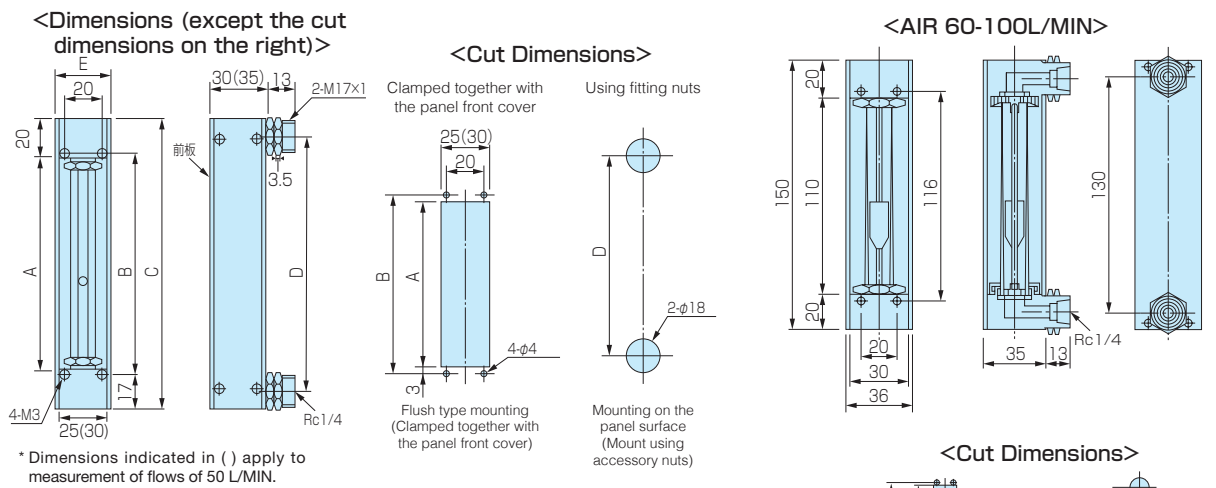
Applications

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

Example of Use with Model RK1400

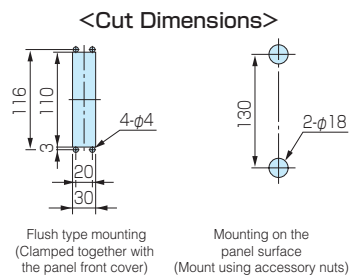
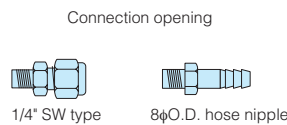


Dimensions



Dimensions of parts per length designation code

Part	Code	12	15	20	25
A		80	110	160	210
B		86	116	166	216
C		120	150	200	250
D		100	130	180	230
E		29 (36)	29 (36)	31 (36)	31 (36)



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 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	

	SS	BS
Materials		
Body block	SUS316	Brass
Tapered tube	Hard glass	
Packing	FKM	NBR
Float	Hard glass, SUS316	
Protective cover	Acrylic resin	
Temperature resistance	MAX60°C	
Connection end	Rc1/4 (Standard)	

Capacity Table

Air (Flow rate at atmospheric pressure) at 20°C

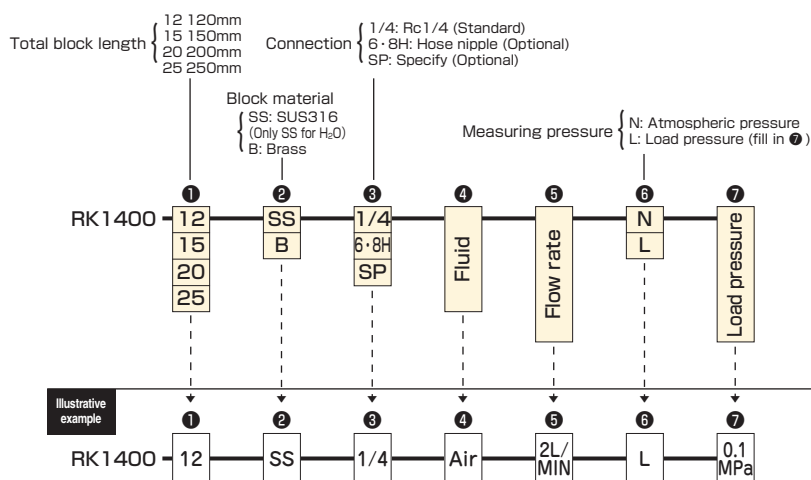
Max. flow rate Total length	* Air conversion scale for over 50L/MIN.																				
	5	10	20	30	50	100	150	200	300	500	1	2	3	5	10	15	20	30	50	100	
ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	ML/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	L/MIN	
120mm	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-
150mm	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200mm	-	-	-	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-
250mm	-	-	-	-	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-

H₂O at 20°C

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	L/MIN	L/MIN
120mm	○	○	○	○	○	○	○	○	○	○	○	-
150mm	○	○	○	○	○	○	○	○	○	○	○	○
200mm	○	○	○	○	○	○	○	○	○	○	○	-
250mm	○	○	○	○	○	○	○	○	○	○	○	-

* Air conversion scale for over 50L/MIN.

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.

Options

- F.S. ±1% (Measurement point)
- 0.5-3ML/MIN Air (atm)
Note) length 120mm only.
- Perfluoro O-ring
Note) No filter for under 1L/MIN full scale.
- Dual scale
- 20:1 scale