



Flowmeter with Precision Needle Valve (for Accurate Flow Control)

MODEL RK1250 SERIES

The Model RK1250 Series Flowmeter is a completely renewed model of existing KOFLOC RK1200, designed as a flowmeter that can be integrated into the customer's equipment. A combination of a grade high precision float type flowmeter with a needle valve capable of very accurate flow control provides a flowmeter ideal for measurement and control of trace flows.

Features

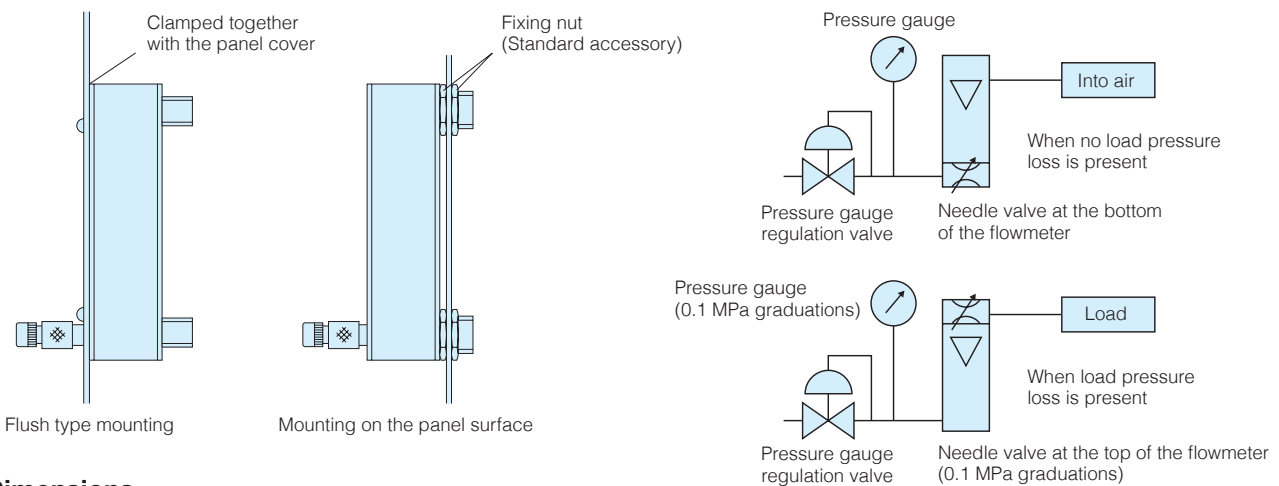
- Capable of controlling ultra-minute flows**
 Can respond to a wide range of flows from ultra-minute flows of 0.5-3 ML/MIN to flows of 3-30 L/MIN.
- The incorporated precision needle valve allows a delicate control of flows.**
 The effective revolving speed of the needle valve can be maximized by specifying a maximum flow and normal supply pressure.
- Wide variations**
 Four total lengths of the flowmeter are available: 126, 156, 206, and 256 mm, for your selection according to your needs.
- Two types of valve arrangement**
 The needle valve can be laid out either at the top or at the bottom of the meter. Choose the type that best suits your needs.
- Measurement and control of water flows also possible**
 Measurement and control of water flows not exceeding 1 L/MIN are also possible.

Applications

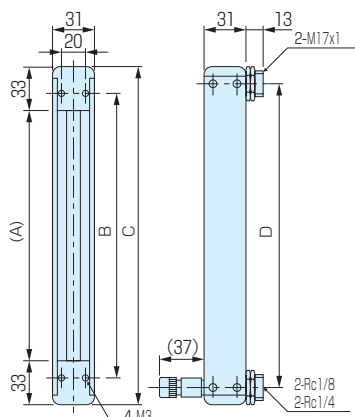
- For integration into your equipment panel
- For gas devices to be used on the semiconductor manufacturing site
- For biotechnology industries
- For vacuum line control



Example of Use with Model RK1250



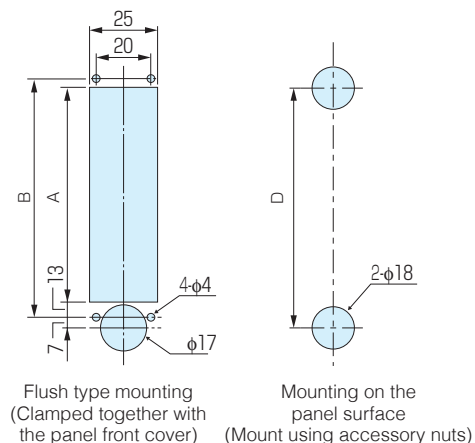
Dimensions



Dimensions of parts per length designation code

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

<Cut Dimensions>



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

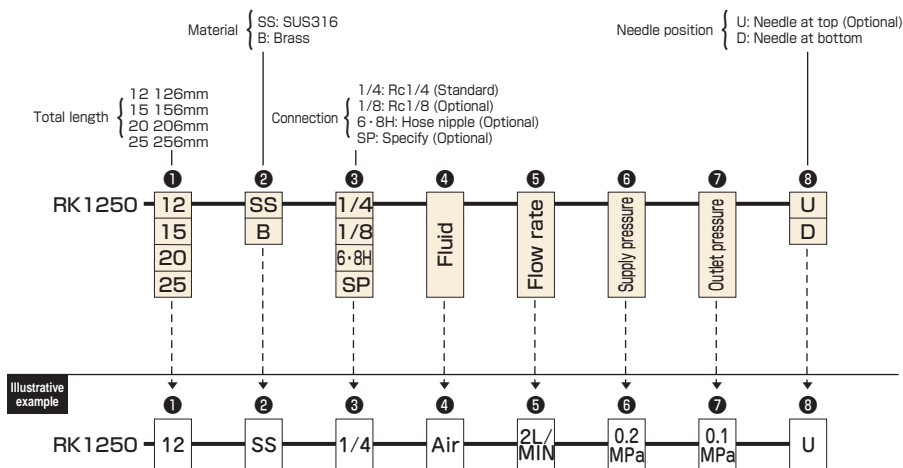
Air (Flow rate at atmospheric pressure)

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

H₂O

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