

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 con-

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.

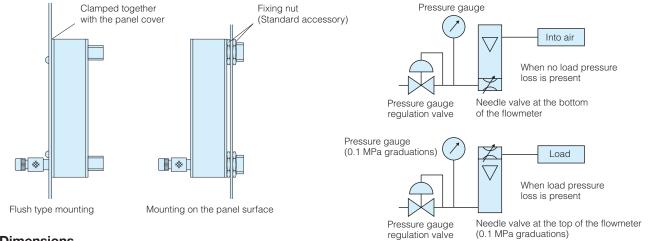
- Two types of valve arrangement
- The needle valve can be laid out either at the top or at the bottom of the meter. Choose the type that best suits your needs.
- Measurement and control of water flows also possible Measurement and control of water flows not exceeding 1 L/MIN are also possible.

Applications

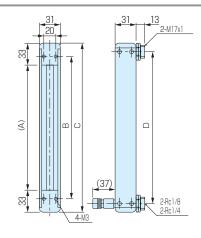
- · For integration into your equipment panel
- · For gas devices to be used on the semiconductor manufacturing site
- For biotechnology industries
- For vacuum line control



Layout Example with Model RK1250



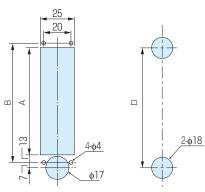
Dimensions



Dimensions of parts per length designation code

Code	12	15	20	25		
Α	60	90	140	190		
В	86	116	166	216		
С	126	156	206	256		
D	100	130	180	230		

<Cut Dimensions>



Flush type mounting (Clamped together with the panel front cover)

Mounting on the panel surface (Mount using accessory nuts)

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)								
	1.0 MPa for 100 ML/MIN or less	1.0 MPa for 5 ML/MIN or less								
Proof pressure	0.7 MPa for 5 L/MIN or less	0.7 MPa for 150 ML/MIN or less								
	0.5 MPa for 10 L/MIN or more	0.5 MPa for 200 ML/MIN or more								
Available scale										
Materials	SS	BS								
Body block	SUS316	Brass								
Tapered tube	Pyrex [®]	, glass								
Packing	Viton [®]	NBR								
Float	Pyrex, SUS	316, glass								
Protective cover	Acrylin	cresin								
Temperature resistance	MAX	60°C								

Capacity Table

Connection end

Air (Flow rate at atmospheric pressure)

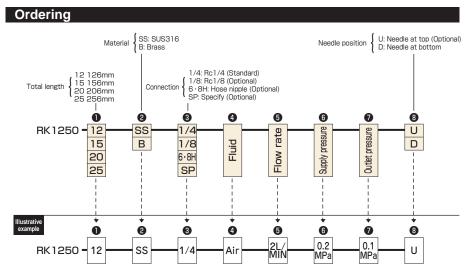
Max. flow rate	5	10	20	30	50	100	150	200	300	500	1	2	3	5	10	15	20	30
Total length	ML/MIN	L/MIN																
126mm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156mm	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
206mm	_	_	_	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0
256mm	_	_	_	_	_	0	0	0	0	0	0	0	0	0	0	0	0	0

Rc1/4 (Standard); Rc1/8 (Optional)

H20

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Ì	Max. flow rate	5	10	20	30	50	100	150	200	300	500	1
	Total length	ML/MIN	L/MIN									
I	126mm	0	0	0	0	0	0	0	0	0	0	0
ı	156mm	0	0	0	0	0	0	0	0	0	0	0
ı	206mm	0	0	0	0	0	0	0	0	0	0	0
Ī	256mm	0	0	0	0	0	0	0	0	0	0	0



^{*} 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.