Flowmeter with Precision Needle Valve (for Accurate Flow Control)

MODEL RK1250 SERIES

The Model RK1250 Series Flowmeter is a completely renewed model of existing 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.

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

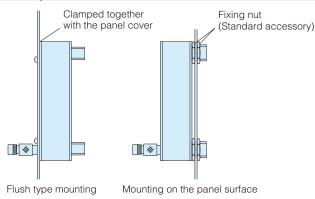


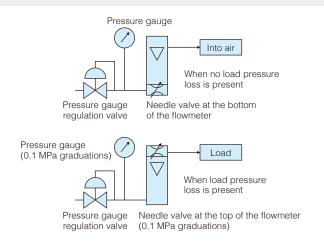
Applications

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

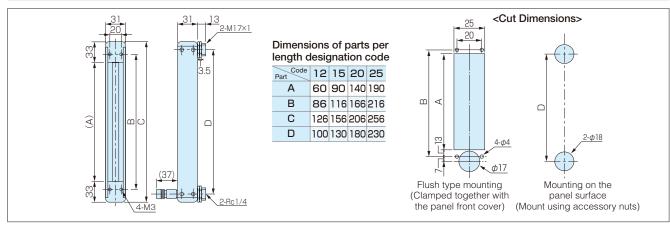
Example of Use with Model RK1250

are also possible.





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(G) for 100 mL/min or less 0.7 MPa(G) for 5 L/min or less 0.5 MPa(G) for 10 L/min or more	1.0 MPa(G) for 5 mL/min or less 0.7 MPa(G) for 150 mL/min or less 0.5 MPa(G) for 200 mL/min or more						
Available scale	10:1 * Optional: 20:1							

Materials	SS	BS								
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									

Capacity Table

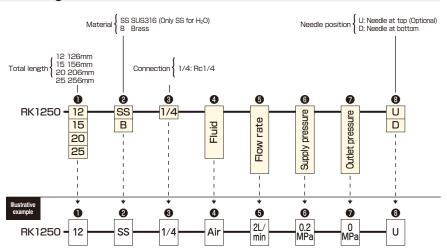
Air (Flow rate at atmospheric pressure)

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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

H₂O at20°C

	Max. flow rate	5	10	20	30	50	100	150	200	300	500	1
	Total length	mL/min	L/min									
ĺ	126mm	0	0	0	0	0	0	0	0	0	0	0
ĺ	156mm	0	0	0	0	0	0	0	0	0	0	0
	206mm	0	0	0	0	0	0	0	0	0	0	0
	256mm	0	0	0	0	0	0	0	0	0	0	0

Ordering



Options

- ☐ F.S. ±1% (Measurement point)
- 0.5~3mL/min Air (atm) Note) length 126mm only.
- ☐ FFKM O-ring

Note) No needle valve shut off O-ring.

Note) No filter for under 1L/min full scale.

- ☐ Dual scale
- ☐ 20:1 scale