Multiple Flow Meter with Needle Valve (for Precision Measurement and Control for Laboratory)

MODEL RK120X SERIES

This multiple flow meter with a needle valve is made by combining several types of flow meter for controlling various flows in a laboratory. It is designed based on the RK1200, a flow meter with precision needle valve, and has been verified to have outstanding reliability.

☐ **Multiple control of two to four flow meters**
  Two to four flow meters can be attached to one unit to permit control of various gases in various flow ranges.
☐ **Various flow ranges**
  The flow meter can measure a variety of flows ranging from the very small flow of full-scale 5 ML/MIN to 20 L/MIN.
☐ **High-precision measurement and control**
  This flow meter is designed based on the precision flow meter RK1200 and permits control of very small flow and high-precision measurement (FS ±2%).
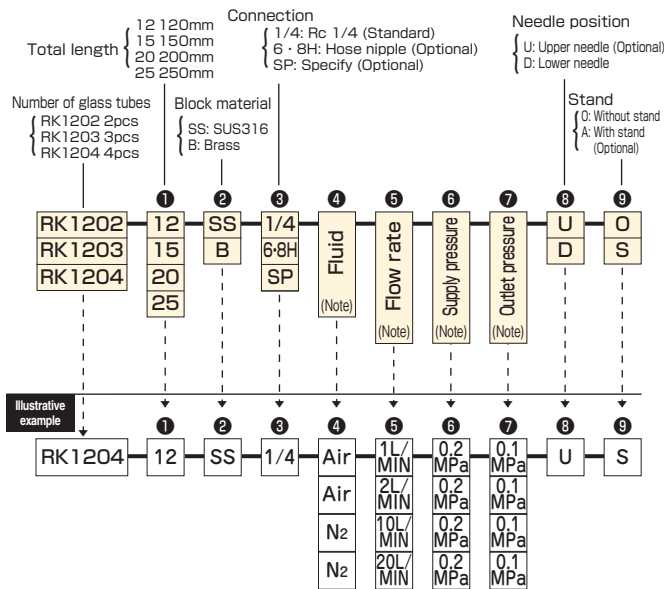
RK1202

■ Applications

☐ Control of multiple components
☐ Multiple range control
☐ Flow control in laboratories

■ Standard Specifications

Fluids	Air,N_2,O_2,H_2,He,Ar,CO_2 (Calibration with actual gas) For other gases, please consult us regarding conversion conditions or calibration with the actual gas to be used.
Flow range	From 0.5–5 ML/MIN to 2–20 L/MIN (Refer to the Capacity Table on page 75.)
Accuracy	FS ±2% (Measurement point) * Optional: FS ±1% (Measurement point)
Proof pressure	0.5MPa
Available scale	10:1 * Optional 20:1

Material	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	Rc 1/4 (Standard)	

■ Ordering

Total length { 12 120mm / 15 150mm / 20 200mm / 25 250mm }

Connection { 1/4: Rc 1/4 (Standard) / 6・8H: Hose nipple (Optional) / SP: Specify (Optional) }

Needle position { U: Upper needle (Optional) / D: Lower needle }

Number of glass tubes { RK1202 2pcs / RK1203 3pcs / RK1204 4pcs }

Block material { SS: SUS316 / B: Brass }

Stand { O: Without stand / A: With stand (Optional) }

	❶	❷	❸	❹	❺	❻	❼	❽	❾
RK1202 RK1203 RK1204	12 15 20 25	SS B	1/4 6・8H SP	Fluid (Note)	Flow rate (Note)	Supply pressure (Note)	Outlet pressure (Note)	U D	O S

Illustrative example

	❶	❷	❸	❹	❺	❻	❼	❽	❾
RK1204	12	SS	1/4	Air	1L/MIN	0.2 MPa	0.1 MPa	U	S
				Air	2L/MIN	0.2 MPa	0.1 MPa		
				N$_2$	10L/MIN	0.2 MPa	0.1 MPa		
				N$_2$	20L/MIN	0.2 MPa	0.1 MPa		

(Note) Specify the flow rates in increasing order from the left, as many as the number of glass tubes for ❹, ❺, ❻, and ❼.

* 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.

■ Dimensions

(150)

(132)

3 A 3

B

15 30

Dimensions of each part

Model	A	B			
1202	50	120	150	200	250
1203	75	120	150	200	250
1204	100	120	150	200	250

	C
B=120	100
B=150	130
B=200	180
B=250	230

<Cut Dimensions>

36 15 Rc1/4 (M8×1+Rc1/4)

C

(36)