



Flow Meter with Flow Controller (Not Subject to Inlet Pressure Change)

MODEL 2504FR SERIES

The constant flow valve Model 2204 that permits constant flow and the precision flow meter RK1400 are combined in this flow meter to permit high-precision measurement and control of a wide flow range from very small flow to medium flow when the gas supply pressure (inlet side) changes.

Features

- This flow meter ensures constant flow under the constant pressure on its outlet side even if the pressure on the inlet side changes.
- The flow controller is made on the basis of the Model 2204 with excellent precision control characteristics, permitting smooth control of very small flow.
- The measuring section of the flow meter made on the basis of the high-precision float type flow meter RK1400 ensures highly reliable flow.

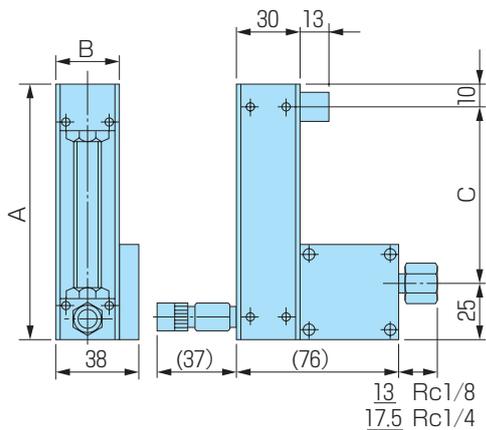


Standard Specifications

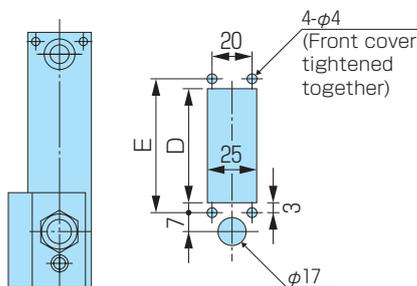
Fluids	Air, N ₂ , O ₂ , H ₂ , He, Ar, CO ₂ (Calibration with actual gas) For other gases, please consult us regarding conversion conditions or calibration with the actual gas to be used. * Option: Scales for two types of fluids
Flow range (FS)	From 1-10 ML/MIN to 1-10 L/MIN (Refer to the Capacity Table on page 55.)
Accuracy	FS ±2% (Measurement point) The flow fluctuation is within FS ±2% when the inlet pressure changes to 0.07-0.7 MPa under the flow meter outlet pressure condition.
Control pressure	The pressure difference between inlet and outlet must be 0.07 MPa or more.
Proof pressure	5L/MIN or less : 0.7MPa 10 L/MIN or more: 0.5 MPa
Available scale	10:1

Material	SS	Al
Body block	SUS316	Al, Brass
Tapered tube	Pyrex®, glass	
Packing	FKM	NBR
Float	Pyrex, SUS316, glass	
Protective cover	Acrylic resin	
Heat resistance	MAX60°C	
Connection	Rc 1/4 (Standard), Rc 1/8 (Optional)	

Dimensions



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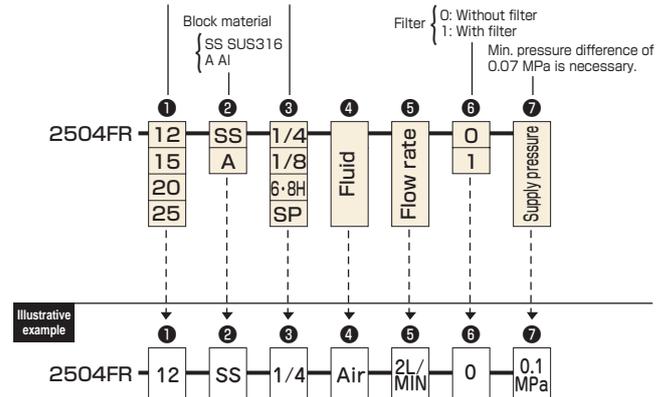


Dimensions of parts per length designation code

Part	Code	12	15	20	25
A		120	150	200	250
B		29	29	31	31
C		85	115	165	215
D		80	110	160	210
E		86	116	166	216

Ordering

Total length { 12 120mm, 15 150mm, 20 200mm, 25 250mm } Connection { 1/4: Rc 1/4 (Standard), 1/8: Rc 1/8 (Optional), 6 · 8H: Hose nipple (Optional), SP: Specify (Optional) }



* 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.