



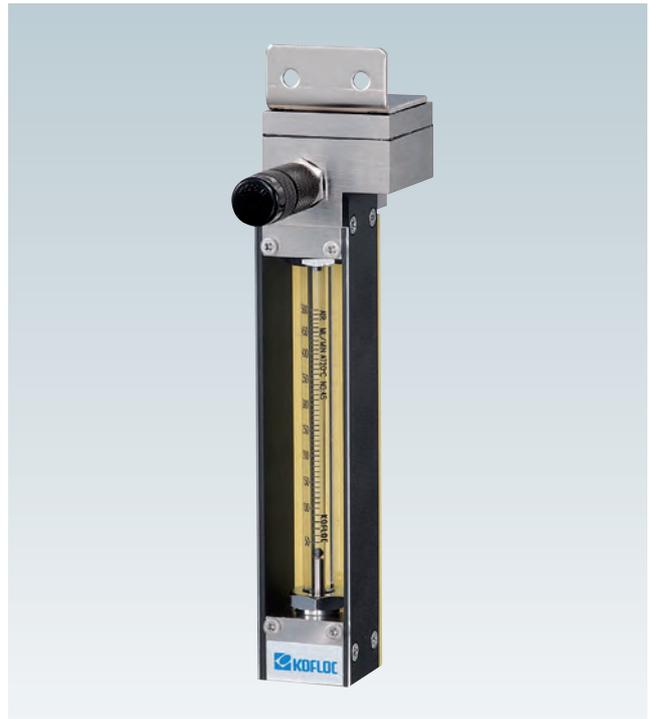
Flow Meter with Flow Controller (Not Subject to Load Pressure Change)

MODEL 2503F SERIES

The constant flow valve Model 2203 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 pressure on the load side (outlet side) changes.

Features

- This flow meter ensures constant flow under constant pressure on its inlet side even if the load pressure loss on the outlet side changes.
- The measuring section of the flow meter is based on the high-precision float type flow meter RK1400.
- The precision valve permits smooth and stable control of very small flow.
- Constant pressure on the inlet side eliminates pressure errors of the float type flow meter, allowing a complete flow control system to be configured.

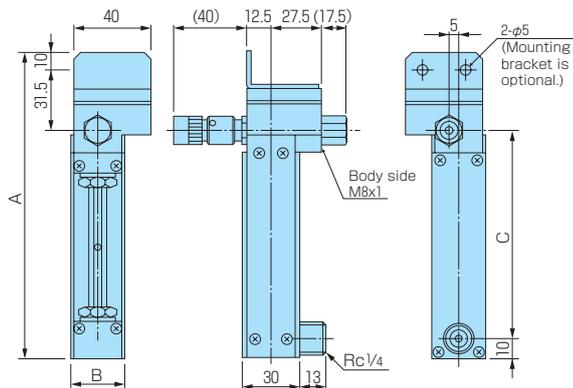


Standard Specifications

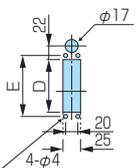
Fluids	Air, N ₂ , O ₂ , H ₂ , He, Ar, CO ₂ (Calibration with actual gas) For other gases, please consult us regarding conversion conditions or calibration with the actual gas to be used. * Option: Scales for two types of fluids
Flow range (FS)	From 1-10 ML/MIN to 2-20 L/MIN (Refer to the Capacity Table on page 55.)
Accuracy	FS ±2% (Measurement point) (under specified constant primary pressure)
Control pressure	The pressure difference between inlet and outlet must be 0.05 MPa or more.
Proof pressure	5 L/MIN or less: 0.8 MPa 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



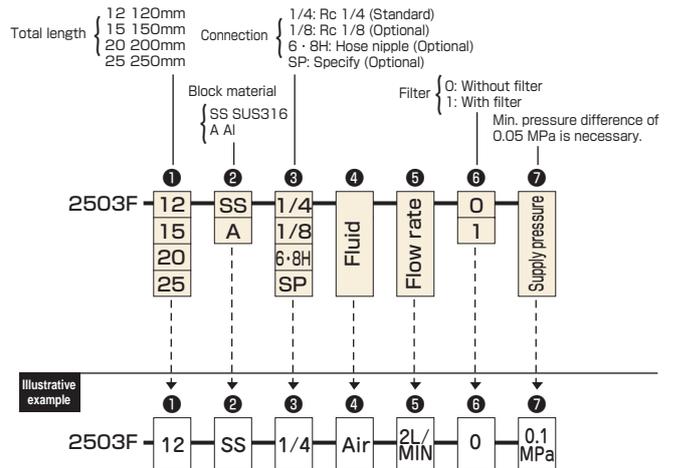
<Cut Dimensions>



Dimensions of parts per length designation code

Part	Code	12	15	20	25
A		163.5	193.5	243.5	293.5
B		29	29	31	31
C		112	142	192	242
D		80	110	160	210
E		86	116	166	216

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.