The Model RK1500 Series Flowmeter is equipped with a bellows seal type needle valve so that it can withstand

bellows seal type needle valve so that it can withstand high vacuum, high pressure, high temperature and toxic gases.

#### **Features**

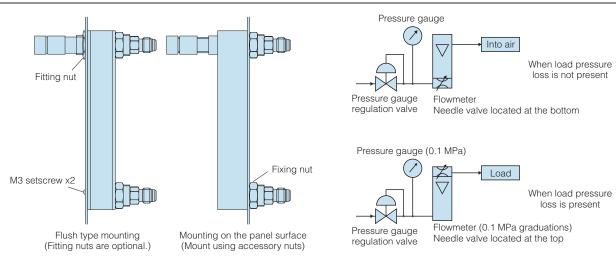
- High reliability against leak is ensured because 100% leak test is conducted before shipping, using a helium leak detector.
- Bellows seal type needle valve perfectly eliminates leak from the valve stem.
- Superior corrosion resistance is ensured by using SUS 316, Viton(tm), fluorocarbon resin and Pyrex glass only for wetted parts and those which are exposed to other fluids.
- Enhanced stability and repeatability are ensured using a flowmeter consisting of a precision-formed try-flat, rib-guided glass tube and a ultra-precision ball float in combination with a sophisticated needle valve.

### **Applications**

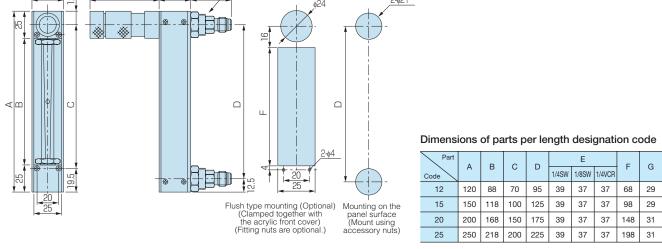
- For vacuum systems
- For semiconductor manufacturing lines



### Example of use



### **Dimensions**



<Cut Dimensions>

# **Standard Specifications**

	Gases	Liquids						
Fluids	Air, N <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> , He, Ar, and CO <sub>2</sub> (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					
Body block	SUS316					
Tapered tube	Pyrex®, glass					
Packing	Viton®, fluorocarbon resin					
Float	Pyrex, SUS 316, glass					
Protective cover	Acrylic resin					
Temperature resistance	MAX60°C					

# **Capacity Table**

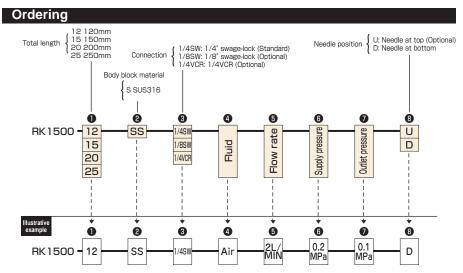
### Air

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																
120mm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150mm	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200mm	_	_	_	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250mm	_	_	_	_	_	0	0	0	0	0	0	0	0	0	0	0	0	0

### H20

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Max. flow rate	5	10	20	30	50	100	150	200	300	500	1
Total length	ML/MIN	L/MIN									
120mm	0	0	0	0	0	0	0	0	0	0	0
150mm	0	0	0	0	0	0	0	0	0	0	0
200mm	0	0	0	0	0	0	0	0	0	0	0
250mm	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.