VARIABLE AREA TYPE FLOW METER (ROTAMETER)

P-TYPE

Applications

A. Measuring the flow rate for
- Chemical process system
- Water treatment system
- Industrial flow system

B. Service Condition
- Viscosity≤ 3 cP
- Max working temperature: Metal: 100ºC; Plastic: 60ºC
- Max working pressure:
  (1)Body material: PS, PI: 15 kg/cm², Plastic: 6 kg/cm²,
  (2)Glass tube: 6 kg/cm² ,
  (3)P.C tube: 10 kg/cm² ,
  Instant pressure: 15 kg/cm²

C. Alarm switch available (N.O)
- **Switch rating:** AC 125V 0.5A / DC 100V 10W / Max. DC 250V<1mA

D. Accuracy: ±2.5%F.S

Operation Principle

The variable area Flow meter contains a float & taper tube. The fluid flows through the taper tube and forces up to the float . The flow rate is measured as a function of the area of the opening. The flow rate increases as the float becomes free to move to produce the varying area.

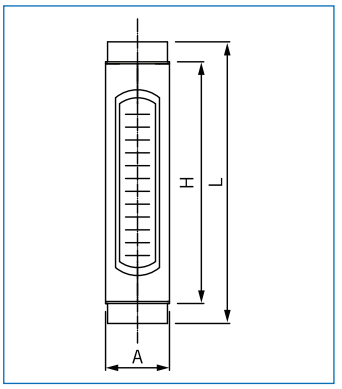


Plastic



Metal

Dimensions



Range / Size	H2O (MAX) L/min	AIR (MAX) NL/min	DIMENSION L	H	A	PT/NPT
6A	0.03 – 0.3	0.5 – 5.0	200	165	—	1/4"
10A	0.1 – 1.0	2 – 20	200	165	—	3/8"
15A	1 – 10	20 – 200	240	200	—	1/2"
20A	2 – 20	30 – 300	280	240	—	3/4"
25A	5 – 50	100 – 1000	280	240	—	1"
32A	10 – 100	200 – 2000	280	240	—	1 1/4"
40A	20 – 200	300 – 3000	305	240	—	1 1/2"
50A	40 – 400	500 – 5000	315	240	—	2"

Ordering Information

P-TYPE	Code	Model
	PS	stainless steel wetted parts
	PI	steel wetted parts
	PV	plastic wetted parts

Code	Size
	(1) 6A (2) 10A (3) 15A (4) 20A
	(5) 25A (6) 32A (7) 40A (8) 50A

Code	Connection thread (M–Male, F–Female)
	(1) PTM (2) PTF (3) NPTM (4) NPTF

Code	Body (wetted parts) material
	(1) CS (2) SS304 (3) SS316
	(4) SS316L (5) P.V.C. (6) P.P.
	(7) PVDF (8) Teflon

Code	Indicating Tube material
	(1) Glass (2) PC (plastic)

Code	Float material
	(1) SS304
	(2) SS316
	(3) P.V.C
	(4) P.P.
	(5) Nylon
	(6) PVDF
	(7) Teflon

Code	Seal material
	(1) NBR (2) Viton

Code	Protection Supporter material
	(1) SS304
	(2) SS316
	(3) Acrylic plastic

Code	Flow range
L	0.03 ~ 400 L/min for liquid
G	0.5 ~ 5000 NL/min for gas

Code	Alarm Switch
1R	One setting point
2R	Two setting points
0	Without alarm

P-TYPE [ ][ ][ ][ ][ ][ ][ ] + [ ][ ][ ][ ]

NOTE
Special requests on materials are available.

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