

# 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  $\leq 3$  cP
- Max. working temperature: Metal: 100°C; Plastic: 60°C
- Max. working pressure:
  - (1) Body material: PS, PI: 15 kg/cm<sup>2</sup>, Plastic: 6 kg/cm<sup>2</sup>,
  - (2) Glass tube: Borosilicate glass 6 kg/cm<sup>2</sup>,
  - (3) P.C tube: 10 kg/cm<sup>2</sup>, Instant pressure: 15 kg/cm<sup>2</sup>

#### C. Alarm switch available (N.O)

- **Switch rating:** AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40mA

#### D. Accuracy: $\pm 2.5\%$ F.S

#### Approvals:



### 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.

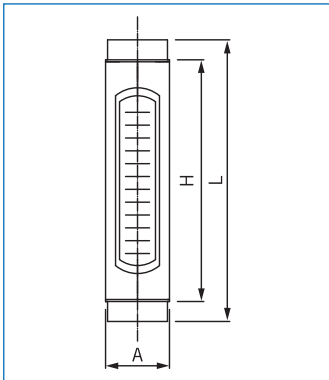


Plastic



Metal

### Dimensions



Range Size	H <sub>2</sub> O (MAX) L/min	AIR (MAX) NL/min	DIMENSION			
			L	H	A	PT/NPT
6A	0.03 – 0.3	0.5 – 5.0	185	145	—	1/4"
10A	0.1 – 1.0	2 – 20	185	145	—	3/8"
15A	1 – 10	20 – 200	240	200	—	1/2"
20A	2 – 20	30 – 300	280	230	—	3/4"
25A	5 – 50	100 – 1000	280	230	—	1"
32A	10 – 100	200 – 2000	280	230	—	1 1/4"
40A	20 – 200	300 – 3000	305	245	—	1 1/2"
50A	40 – 400	500 – 5000	315	245	—	2"

### Ordering Information

P-TYPE	Code	Model	Code	Seal material
	PS	stainless steel wetted parts		(1) NBR (2) Viton
	PI	steel wetted parts		<b>Code Protection Supporter material</b>
	PV	plastic wetted parts		(1) SS304
		<b>Code Size</b>		(2) SS316
		(1) 6A (2) 10A (3) 15A (4) 20A		(3) Acrylic plastic
		(5) 25A (6) 32A (7) 40A (8) 50A		<b>Code Flow range</b>
		<b>Code Connection thread (M–Male, F–Female)</b>		L 0.03 ~ 400 L/min for liquid
		(1) PTM (2) PTF (3) NPTM (4) NPTF		G 0.5 ~ 5000 NL/min for gas
		<b>Code Body (wetted parts) material</b>		<b>Code Alarm Switch</b>
		(1) CS (2) SS304 (3) SS316		1R One setting point
		(4) SS316L (5) P.V.C. (6) P.P.		2R Two setting points
		(7) PVDF		0 Without alarm
		<b>Code Indicating Tube material</b>		
		(1) Borosilicate glass		
		(2) PC (plastic)		
		<b>Code Float material</b>		
		(1) SS304		
		(2) SS316		
		(3) P.V.C		
		(4) P.P.		
		(5) Nylon		
		(6) PVDF		
		(7) Teflon		

**NOTE**  
Special requests on materials are available.