

# 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 ≤ 100cp
- Max working temperature 100°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: 6 kg/cm<sup>2</sup>, Instant pressure: 8 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 < 1mA

### 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.



CE

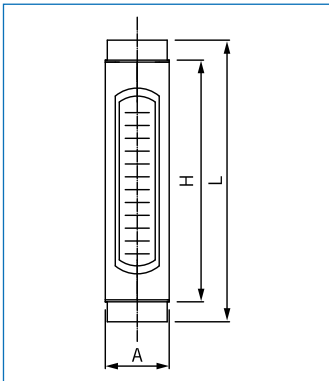
Plastic



CE

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

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