

# VARIABLE AREA TYPE FLOW METER (ROTAMETER)

## N-TYPE

### Operation Principle

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

### Technical Data

#### A. Measuring The Flow Rate For

- Gases & Liquid
- 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: NS: 15 kg/cm<sup>2</sup>, NI: 15 kg/cm<sup>2</sup>, NV: 6 kg/cm<sup>2</sup>
  - (2) Glass tube: Borosilicate glass 6 kg/cm<sup>2</sup> for 10A~50A; 5 kg/cm<sup>2</sup> for 65A~80A; 4 kg/cm<sup>2</sup> for 100A~150A;
  - (3) P.C tube: 10 kg/cm<sup>2</sup>, Instant pressure: 15 kg/cm<sup>2</sup>

#### C. Alarm Switch Available (N.O)

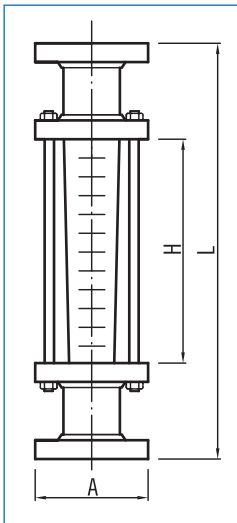
- Switch rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40 mA

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

#### Approvals:



### Dimensions



unit=mm

Range Size	H <sub>2</sub> O (Max.) L/Min	Air (Max.) NL/Min	Dimension			
			Flange	L	H	A
10A	0.1~1.0	2~20	3/8"	230	103	—
15A	1~10	20~200	1/2"	280	160	—
20A	2~20	30~300	3/4"	340	190	—
25A	5~50	100~1000	1"	340	190	—
32A	10~100	200~2000	1 1/4"	350	205	—
40A	20~200	300~3000	1 1/2"	350	205	—
50A	40~400	500~5000	2"	350	205	—
65A	60~600	600~6000	2 1/2"	350	205	—
80A	80~800	900~9000	3"	410	250	—
100A	100~1000	1500~15000	4"	430	260	—
125A	200~2000	3000~30000	5"	460	260	—

### Ordering Information

N-Type	Code	Model	Code	Float Material
	NS	Wetted parts are stainless steel		(1) SS304 (2) SS316 (3) P.V.C (4) P.P.
	NI	Wetted parts are steel		(5) PVDF (6) Teflon (0) option
	NV	Wetted parts are plastic		<b>Code</b> <b>Seal Material</b>
				(1) NBR (2) Viton (3) Teflon
		<b>Code</b> <b>Size</b>		<b>Code</b> <b>Protection Supporter Material</b>
		(1) 10A (2) 15A (3) 20A (4) 25A (5) 32A (6) 40A		(1) SS304 (2) SS316
		(7) 50A (8) 65A (9) 80A (10) 100A (11) 125A		<b>Code</b> <b>Flow Range</b>
		<b>Code</b> <b>Connection Rating</b>		L 0.1~2000 L/min for liquid
		(1) JIS 5K (2) JIS 10K (3) ANSI 150# (4) ANSI 300#		G 2~30000 NL/min for gases
		<b>Code</b> <b>Body Material</b>		<b>Code</b> <b>Alarm Switch</b>
		(1) SS304 (2) SS316 (3) SS316L (4) P.V.C		1R One setting point
		(5) P.P (6) PVDF (7) Option		2R Two setting point
		<b>Code</b> <b>Indicating Tube Material</b>		0 Without alarm
		(1) Borosilicate glass (2) PC		
N-Type			+	