

# 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)

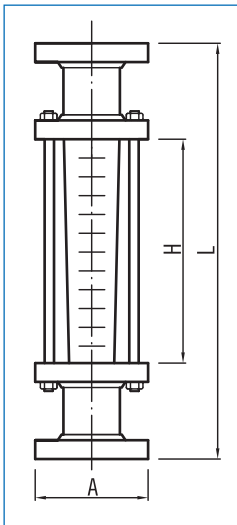
- Switch rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40 mA

#### 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> Seal Material
				(1) NBR (2) Viton (3) Teflon
		<b>Code</b> Size		<b>Code</b> Protection Supporter Material
		(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> Flow Range
		<b>Code</b> Connection Rating		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> Body Material		<b>Code</b> Alarm Switch
	(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> Indicating Tube Material	0 Without alarm		
	(1) Borosilicate glass (2) PC			
N-Type			+	