

# VARIABLE AREA TYPE FLOW METER (ROTAMETER)

## NR-TYPE

### Operation Principle

The variable area flow meter contains a float and taper tube. The fluid flow through the taper tube and forces up 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: ≤ 3 cP
- Max. working temperature: Metal: 100°C; Plastic: 60°C
- Max. working pressure:
  - (1) Body material: NRS: 15 kg/cm<sup>2</sup>, NRI: 15 kg/cm<sup>2</sup>, NRV: 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)

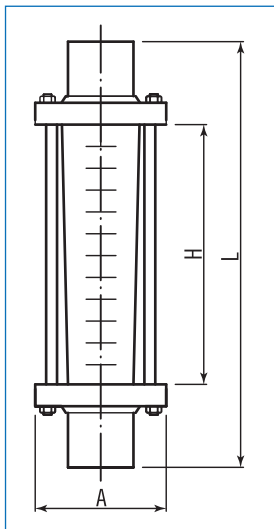
- Switch rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40mA

#### D. Accuracy: ±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
6A	0.03~0.3	0.5~5.0	1/4"	170	103	—
10A	0.1~1.0	2~20	3/8"	170	103	—
15A	1~10	20~200	1/2"	240	160	—
20A	2~20	30~300	3/4"	280	190	—
25A	5~50	100~1000	1"	280	190	—
32A	10~100	200~2000	1 1/4"	300	205	—
40A	20~200	300~3000	1 1/2"	330	205	—
50A	40~400	500~5000	2"	350	205	—

### Ordering Information

NR-Type	Code	Model	Code	Float Material
↓	NRS	Wetted parts are stainless steel	↓	(1) SS304 (2) SS316 (3) P.V.C (4) P.P.
	NRI	Wetted parts are steel		(5) PVDF (6) Teflon (0) option
	NRV	Wetted parts are plastic		<b>Code</b> Seal Material
		<b>Code</b> Size		(1) NBR (2) Viton (3) Teflon
		(1) 6A (2) 10A (3) 15A (4) 20A		<b>Code</b> Protection Supporter Material
		(5) 25A (6) 32A (7) 40A (8) 50A		(1) SS304 (2) SS316
		<b>Code</b> Connection Thread		<b>Code</b> Flow Range
		(1) PT Male (2) PT Female (3) NPT Male (4) NPT Female		L 0.03~400 L/min for liquid
		<b>Code</b> Body Material		G 0.5~5000 NL/min for gases
		(1) SS304 (2) SS316 (3) SS316L (4) P.V.C		<b>Code</b> Alarm Switch
		(5) P.P (6) PVDF (7) Option		1R One setting point
		<b>Code</b> Indicating Tube Material		2R Two setting point
	(1) Borosilicate glass (2) PC	0 Without alarm		

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