

VARIABLE AREA TYPE FLOW METER (ROTAMETER)

NR-TYPE

Operation Principle

The variable area flow meter contains a float & 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/cm², NRI: 15 kg/cm², NRV: 6 kg/cm²
 - (2) Glass tube: Borosilicate glass 6 kg/cm²
 - (3) P.C tube: 10 kg/cm², Instant pressure: 15 kg/cm²

C. Alarm Switch Available (N.O)

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

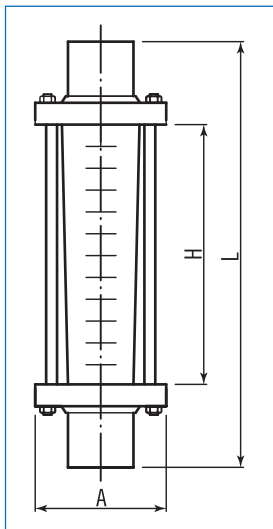
D. Accuracy: $\pm 2.5\%$ F.S



Approvals:



Dimensions



unit=mm

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