

VARIABLE AREA TYPE FLOW METER (ROTAMETER)

NP-TYPE

Operation Principle

The variable area flow meter contains a float & taper tube. The fluid flows 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: NPS: 15 kg/cm², NPI: 15 kg/cm², NPV: 6 kg/cm²
 - (2) Glass tube: 6 kg/cm²
 - (3) P.C tube: 10 kg/cm², Instant pressure: 15 kg/cm²

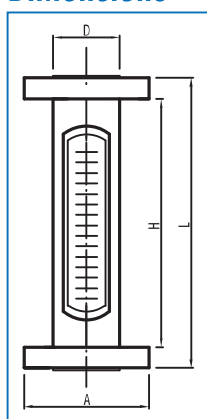
C. Alarm Switch Available (N.O)

- Switch rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V <1mA

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



Dimensions



unit=mm

Range Size	H ₂ O (Max.) L/Min	Air (Max.) NL/Min	Dimension				
			Flange	L	H	A	D
10A	0.1~1.0	2~20	3/8"	175	145	—	—
15A	1~10	20~200	1/2"	230	200	—	—
20A	2~20	30~300	3/4"	260	230	—	—
25A	5~50	100~1000	1"	265	230	—	—
32A	10~100	200~2000	1 1/4"	280	245	—	—
40A	20~200	350~3500	1 1/2"	280	245	—	—
50A	40~400	500~5000	2"	285	245	—	—

Ordering Information

NP-Type	Code	Model	Code	Float Material
	NPS	Wetted parts are stainless steel		(1) SS304 (2) SS316 (3) P.V.C (4) P.P.
	NPI	Wetted parts are steel		(5) PVDF (6) Teflon (0) option
	NPV	Wetted parts are plastic		
	Code	Size		Code Seal Material
		(1) 10A (2) 15A (3) 20A (4) 25A (5) 32A (6) 40A (7) 50A		(1) NBR (2) Viton
	Code	Connection Rating		Code Protection Supporter Material
		(1) JIS 5K (2) JIS 10K (3) ANSI 150# (4) DIN PN10		(1) SS304 (2) SS316 (3) Acrylic Plastic
	Code	Body Material		Code Flow Range
		(1) SS304 (2) SS316 (3) SS316L (4) P.V.C		L 0.1~400 L/min for liquid
		(5) P.P (6) PVDF (7) Option		G 2~5000 NL/min for gases
	Code	Indicating Tube Material		Code Alarm Switch
		(1) Glass (2) PC		1R One setting point
				2R Two setting point
				0 Without alarm
NP-Type			+	