

VARIABLE AREA TYPE FLOW METER (ROTAMETER)

NP-TYPE

Operation Principle

The variable area flow meter contains a float and a taper tube. The fluid flows through the taper tube and forces the float up. 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)

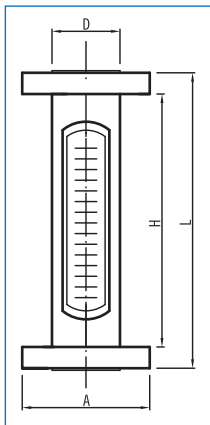
- Switch rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V <1mA

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 Seal Material
				(1) NBR (2) Viton
		Code Size		Code Protection Supporter Material
		(1) 10A (2) 15A (3) 20A (4) 25A (5) 32A (6) 40A (7) 50A		(1) SS304 (2) SS316 (3) Acrylic Plastic
		Code Connection Rating		Code Flow Range
		(1) JIS 5K (2) JIS 10K (3) ANSI 150# (4) DIN PN10		L 0.1~400 L/min for liquid
		Code Body Material		G 2~5000 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) Glass (2) PC		0 Without alarm
NP-Type			+	