

VARIABLE AREA TYPE FLOW METER (ROTAMETER)

P-TYPE

Applications

A. Measuring the flow rate for

- 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: PS, PI: 15 kg/cm², Plastic: 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)

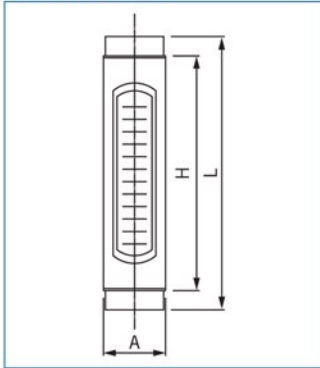
- Switch rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40mA

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

Operation Principle

The variable area Flow meter contains a float & taper tube. The fluid flows through the taper tube and forces up to the float. The flow rate is measured as a function of the area of the opening. The flow rate increases as the float becomes free to move to produce the varying area.

Dimensions



Range Size	H ₂ O (MAX) L/min	AIR (MAX) NL/min	DIMENSION			
			L	H	A	PT/NPT
6A	0.03 – 0.3	0.5 – 5.0	200	165	—	1/4"
10A	0.1 – 1.0	2 – 20	200	165	—	3/8"
15A	1 – 10	20 – 200	240	200	—	1/2"
20A	2 – 20	30 – 300	280	240	—	3/4"
25A	5 – 50	100 – 1000	280	240	—	1"
32A	10 – 100	200 – 2000	280	240	—	1 1/4"
40A	20 – 200	300 – 3000	305	240	—	1 1/2"
50A	40 – 400	500 – 5000	315	240	—	2"

Ordering Information

P-TYPE	Code	Model	Code	Seal material
	PS	stainless steel wetted parts		(1) NBR (2) Viton
	PI	steel wetted parts		Code Protection Supporter material
	PV	plastic wetted parts		(1) SS304
		Code Size		(2) SS316
		(1) 6A (2) 10A (3) 15A (4) 20A		(3) Acrylic plastic
		(5) 25A (6) 32A (7) 40A (8) 50A		Code Flow range
		Code Connection thread (M–Male, F–Female)		L 0.03 ~ 400 L/min for liquid
		(1) PTM (2) PTF (3) NPTM (4) NPTF		G 0.5 ~ 5000 NL/min for gas
		Code Body (wetted parts) material		Code Alarm Switch
		(1) CS (2) SS304 (3) SS316		1R One setting point
		(4) SS316L (5) P.V.C. (6) P.P.		2R Two setting points
		(7) PVDF (8) Teflon		0 Without alarm
		Code Indicating Tube material		
		(1) Borosilicate glass		
		(2) PC (plastic)		
		Code Float material		
		(1) SS304		
		(2) SS316		
		(3) P.V.C		
		(4) P.P.		
		(5) Nylon		
		(6) PVDF		
		(7) Teflon		



Plastic



Metal



NOTE
Special requests on materials are available.



VARIABLE AREA TYPE FLOW METER (ROTAMETER)

NP-TYPE

Operation Principle

The variable area flow meter contain a float & taper tube. The fluid flow through the taper tube and force up to the float. The flow rate is measured as a function of the area of the opening. This area 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: 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



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) Borosilicate glass (2) PC		0 Without alarm

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