

# VARIABLE AREA TYPE FLOW METER (ROTAMETER)

## NP-TYPE

### Operation Principle

The variable area flow meter contains a float & taper tube. The fluid flow through the taper tube and force 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

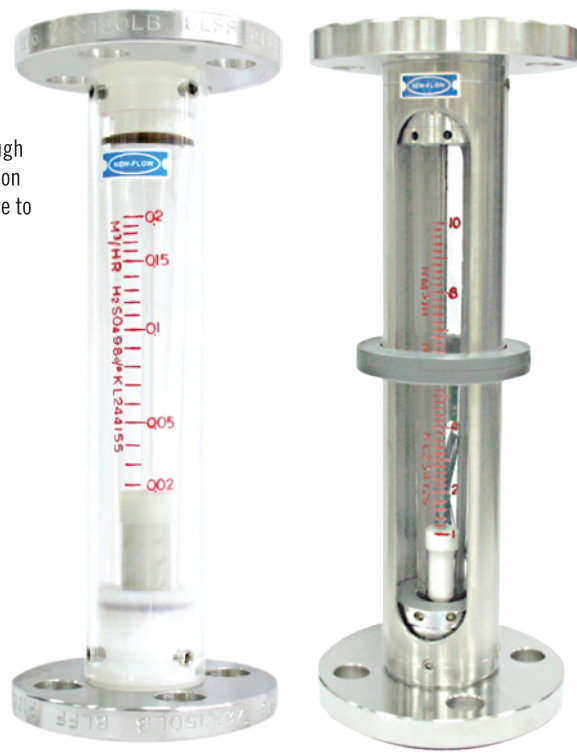
#### B. Service Condition

- Viscosity:  $\leq 3$  cP
- Max. working temperature Metal: 100°C; Plastic: 60°C
- Max. working pressure
  - (1) Body material: NPS: 15 kg/cm<sup>2</sup>, NPI: 15 kg/cm<sup>2</sup>, NPV: 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

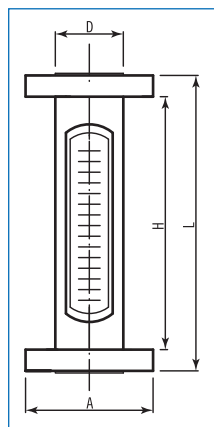
#### D. Accuracy: $\pm 2.5\%$ F.S



Approvals:



### Dimensions



unit=mm

Range Size	H <sub>2</sub> O (Max.) L/Min	Air (Max.) NL/Min	Dimension				
			Flange	L	H	A	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		<b>Code</b> <b>Seal Material</b>
				(1) NBR (2) Viton
		<b>Code</b> <b>Size</b>		<b>Code</b> <b>Protection Supporter Material</b>
		(1) 10A (2) 15A (3) 20A (4) 25A (5) 32A (6) 40A (7) 50A		(1) SS304 (2) SS316 (3) Acrylic Plastic
		<b>Code</b> <b>Connection Rating</b>		<b>Code</b> <b>Flow Range</b>
		(1) JIS 5K (2) JIS 10K (3) ANSI 150# (4) DIN PN10		L 0.1~400 L/min for liquid
		<b>Code</b> <b>Body Material</b>		G 2~5000 NL/min for gases
		(1) SS304 (2) SS316 (3) SS316L (4) P.V.C (5) P.P (6) PVDF (7) Option		<b>Code</b> <b>Alarm Switch</b>
	<b>Code</b> <b>Indicating Tube Material</b>		1R One setting point	
	(1) Borosilicate glass (2) PC		2R Two setting point	
			0 Without alarm	
NP-Type			+	