

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 to 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: 6 kg/cm²
 - (3) P.C tube: 10 kg/cm², Instant pressure: 15 kg/cm²

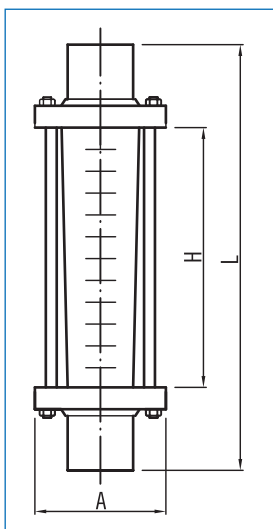
C. Alarm Switch Available (N.O)

- 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 |
| 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) Glass (2) PC | | 0 Without alarm | | |
| ↓ | | | ↓ | |
| NR-Type | | | + | |