

# METAL TUBE FLOW METER

METAL TUBE FLOW METER

MODEL : CMTL Series

## DESCRIPTION

CMTL Series : Metal tube variable area flowmeters

CMTL Series consist of tapered metal tube and local indicator. They are useful in measuring the chemical and corrosion liquid due to TEFLON lining. You can choose the alarm and output as an option

## FEATURES

- With TEFLON LINING
- Simple construction and Economical price

## OPTION

- Alarm (1 SPDT, 2SPDT)
- Signal output



## FLOW CHART

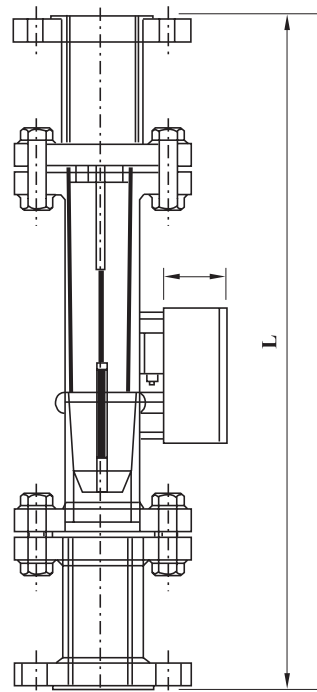
| SIZE |        | FLOW RATE                            | FLOW RATE                  |                          | Pressure Loss      | Length (mm) |
|------|--------|--------------------------------------|----------------------------|--------------------------|--------------------|-------------|
|      |        | H <sub>2</sub> O (m <sup>3</sup> /h) | LIQUID (m <sup>3</sup> /h) | AIR (Nm <sup>3</sup> /h) | mmH <sub>2</sub> O | L           |
| 15A  | 1/2B   | 0.08-0.8                             | 0.03-0.3                   | 0.3-3                    | 8                  | 375         |
|      |        |                                      | 0.1-1                      | 1.2-12                   |                    |             |
| 20A  | 3/4B   | 0.12-1.2                             | 0.08-0.8                   | 0.8-8                    | 8                  | 375         |
|      |        |                                      | 0.15-1.5                   | 1.5-15                   |                    |             |
| 25A  | 1B     | 0.25-2.5                             | 0.15-1.5                   | 1.5-15                   | 7                  | 375         |
|      |        |                                      | 0.35-3.5                   | 3.5-35                   |                    |             |
| 32A  | 1 1/4B | 0.45-4.5                             | 0.3-3                      | 3.5-35                   | 6                  | 375         |
|      |        |                                      | 0.6-6                      | 6-60                     |                    |             |
| 40A  | 1 1/2B | 0.8-8                                | 0.5-5                      | 5-50                     | 5                  | 375         |
|      |        |                                      | 1-10                       | 10-100                   |                    |             |
| 50A  | 2B     | 1.2-12                               | 0.8-8                      | 10-100                   | 4                  | 375         |
|      |        |                                      | 1.5-15                     | 15-150                   |                    |             |
| 65A  | 2 2/1B | 2.0-20                               | 0.1-10                     | 15-150                   | 5                  | 450         |
|      |        |                                      | 2.5-25                     | 20-200                   |                    |             |
| 80A  | 3B     | 3.0-30                               | 1.2-12                     | 20-200                   | 6                  | 400         |
|      |        |                                      | 4-40                       | 30-300                   |                    |             |
| 100A | 4B     | 5.0-50                               | 1.5-15                     | 30-300                   | 5                  | 500         |
|      |        |                                      | 6-60                       | 40-400                   |                    |             |

## SPECIFICATION

|                   |   |
|-------------------|---|
| * MEASURING       | Liquid, Gas and Steam   |
| * METER SIZE      | 15A(1/2") ~ 100A(4")  |
| * MATERIAL        | SUS 304 / SUS 316 / SUS316L (with Teflon Lining)                    |
| * PRESSURE RATING | 8 kgf/cm <sup>2</sup> (Standard)<br>Option : 15 kgf/cm <sup>2</sup> |
| * TEMPERATURE     | Operation : 80 °C<br>Max : 120 °C                                   |
| * CONNECTION      | Flange Connection (JIS / ANSI / DIN / other)                        |
| * ACCURACY        | +/- 3.0% of FS  |
| * OUT PUT         | Alarm contact : High or Low set point / 4-20mA                      |
| * POWER SUPPLY    | DC 24V ( 2wire ) - Loop   |

## MATERIAL

| PART LIST      | MATERIAL            | TYPE |
|----------------|---------------------|------|
| Body           | SUS304+PTFE         |      |
| Flange         | SUS304+PTFE         |      |
| Float          | SUS304+PTFE         |      |
| Taper Tube     | PTFE                |      |
| Magnet Rod     | SUS304(ALNICO)+PTFE |      |
| Lower Stopper  | PTFE                |      |
| Collar         | PTFE                |      |
| Guide          | SUS304+PTFE         |      |
| Upper Stopper  | PTFE                |      |
| Indicator      | Aluminum            |      |
| (Terminal Box) | Aluminum            |      |



## DIMENSION

## ORDERING CODE

CMTL - [ ] - [ ] - [ ] - [ ] - [ ]

TYPE

- 1 LOCAL INDICATOR
- 2 LOCAL INDICATOR with ALARM ( 1-SPDT/ 2-SPDT)
- 3 LOCAL INDICATOR with SIGNAL (4-20mA)

CONNECTION

- J JIS 10K
- A ANSI 150#
- D DIN PN16
- O OTHERS

BODY MATERIAL

- A SUS 304
- B SUS 316
- C SUS 316L
- O OTHERS

METER SIZE

- |    |             |     |             |
|----|-------------|-----|-------------|
| 15 | 15A(1/2")   | 50  | 50A(2")     |
| 20 | 20A(3/4")   | 65  | 65A(2-1/2") |
| 25 | 25A(1")     | 80  | 80A(3")     |
| 32 | 32A(1-1/4") | 100 | 100A(4")    |
| 40 | 40A(1-1/2") | O   | OTHERS      |

FLOW DIRECTION

- 1 Bottom -> Top

METAL TUBE FLOW METR ( with TEFLON Lining)