

Metal Tube Flow Meter

CMTL-Series

Description

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, 2 SPDT)
- Signal output
- HART Communication



Flow Chart

Size		Flow Rate	Flow Rate		Pressure Loss	Length
		H ₂ O (m ³ /h)	LIQUID (m ³ /h)	AIR (Nm ³ /h)	mmH ₂ O	L (mm)
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 1/2B	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		

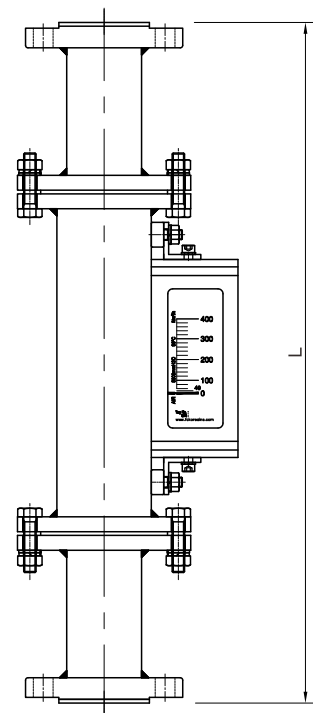
Metal Tube Flow Meter

Specification

Measuring	Liquid, Gas and Steam
Meter Size	15A(1/2") ~ 100A(4")
Material	SUS 304 / SUS 316 / SUS 316L (with TEFLON Lining)
Pressure Rating	8 kgf/cm ² (Standard) Option: 15 kgf/cm ²
Temperature	Operation: 80°C Max: 120°C
Connection	Flange Connection (JIS / ANSI / DIN / Other)
Accuracy	± 3.0% of F.S
Output	Alarm Contact: High or Low set point / 4 ~ 20mA / HART Communication
Power Supply	DC 24V (2 wire) – Loop

Material & Dimension

Part List	Material	Type
Body	SUS 304 + PTFE	
Flange	SUS 304 + PTFE	
Float	SUS 304 + PTFE	
Taper Tube	PTFE	
Magnet Rod	SUS 304(ALNICO) + PTFE	
Lower Stopper	PTFE	
Collar	PTFE	
Guide	SUS 304 + PTFE	
Upper Stopper	PTFE	
Indicator	ALUMINUM	
(Terminal Box)	ALUMINUM	



CMTL

Ordering Code

Model	Specification	Description
CMTL	Metal Tube Flow Meter (with TEFLON Lining)	
	<ul style="list-style-type: none"> Flow Direction 	
	1	Bottom → Top
	<ul style="list-style-type: none"> Meter Size 	
	15	15A (1/2")
	20	20A (3/4")
	25	25A (1")
	32	32A (1-1/4")
	40	40A (1-1/2")
	50	50A (2")
	65	65A (2-1/2")
	80	80A (3")
	100	100A (4")
	O	Others
	<ul style="list-style-type: none"> Body Material 	
	A	SUS 304
	B	SUS 316
	C	SUS 316L
	O	Others
	<ul style="list-style-type: none"> Connection 	
	J	JIS 10K
	A	ANSI 150#
	D	DIN PN16
	O	Others
	<ul style="list-style-type: none"> Type 	
	1	Local Indicator
	2	Local Indicator with Alarm (1-SPDT / 2-SPDT)
	3	Local Indicator with Signal (4 ~ 20mA)
	4	Local Indicator with HART Communication

[Example]

CMTL-1-15-A-J-1