

Metal Tube Flow Meter

CM-1-Series

Description

Metal tube variable area flowmeters

CM Series consist of tapered metal tube and local indicator.

They are designed to measure liquids and gases in high pressures and temperatures.

You can choose the alarm and signal output as an option.

Features

- Simple construction and Economical price
- High pressure and temperature

Option

- Alarm (1 SPDT, 2 SPDT)
- Signal output / HART Communication



Flow Chart

Size		Flow Rate	Flow Rate		Pressure Loss
		H ₂ O (m ³ /h)	LIQUID (m ³ /h)	GAS (Nm ³ /h)	mmH ₂ O
15A	1/2B	0,1 – 1	0,02 – 0,2	0,6 – 6	600
			0,2 – 2	3 – 30	
20A	3/4B	0,2 – 2,0	0,08 – 0,8	1,6 – 16	600
			0,35 – 3,5	5 – 50	
25A	1B	0,4 – 4,0	0,1 – 1	2 – 20	600
			0,6 – 6	9 – 90	
32A	1 1/4B	0,6 – 6,0	0,1 – 1	2 – 20	600
			1 – 10	15 – 150	
40A	1 1/2B	0,8 – 8,0	0,2 – 2	4 – 40	800
			1,5 – 15	20 – 200	
50A	2B	1,5 – 15	0,5 – 5	6 – 60	800
			2,5 – 25	40 – 400	
65A	2 1/2B	2,5 – 25	0,8 – 8	10 – 100	800
			4 – 40	60 – 600	
80A	3B	4,0 – 40	1,2 – 12	12 – 120	800
			5 – 50	80 – 800	
100A	4B	6,0 – 60	2,5 – 25	25 – 250	1,000
			9 – 90	120 – 1,200	
125A	5B	10 – 100	4 – 40	40 – 400	1,100
			15 – 150	200 – 2,000	
150A	6B	14 – 140	6 – 60	60 – 600	1,200
			20 – 200	300 – 3,000	
200A	8B	20 – 200	10 – 100	100 – 1,000	1,500
			28 – 280	400 – 4,000	

Specification

Measuring	Liquid, Gas
Meter Size	15A(1/2") ~ 200A(8")
Material	SUS 304 / SUS 316 / SUS 316L Other Materials on Request
Pressure Rating	10 kgf/cm ² (Standard) Option: 60 kgf/cm ²
Temperature	Operation: 0 ~ 120°C Max: 300°C
Connection	Flange Connection (JIS / ANSI / DIN / Other) Screw Connection Clamp Connection
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

Part List	Material		
	SUS 304	SUS 316	SUS 316L
Body	SUS 304	SUS 316	SUS 316L
Flange	SUS 304	SUS 316	SUS 316L
Float	SUS 304	SUS 316	SUS 316L
Stopper	SUS 304	SUS 316	SUS 316L
Magnet Rod	SUS 304 + ALNICO	SUS 316 + ALNICO	SUS 316L + ALNICO
Stopper	SUS 304	SUS 316	SUS 316L
Taper Tube	SUS 304	SUS 316	SUS 316L
Guid	SUS 304	SUS 316	SUS 316L
Cap	SUS 304		
Indicator	ALUMINUM		
Packing	NBR, VITON, PTFE		

Metal Tube Flow Meter

Model



CM-1



Semi-Jacket

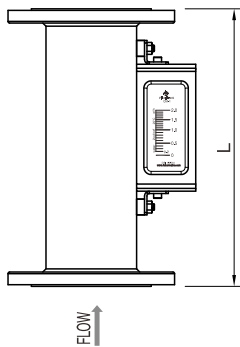


Full-Jacket

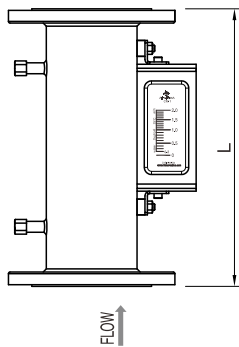


Totalizer

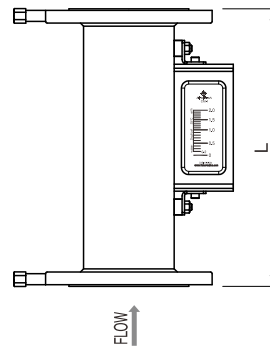
Dimension



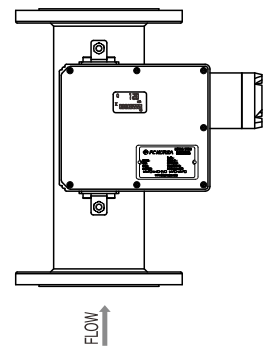
CM-1



Semi-Jacket



Full-Jacket



Totalizer

Dimension

Type Size	CM-1 (Bottom → Top) (unit: mm)			
	L (Standard)	L (Semi-Jacket)	L (Full-Jacket)	L (Totalizer)
15A	350	350	350	350
20A	350	350	350	350
25A	350	350	350	350
32A	350	350	350	350
40A	350	350	350	350
50A	350	350	350	350
65A	400	400	400	400
80A	500	500	500	500
100A	500	500	500	500
125A	600	600	600	600
150A	700	700	700	700
200A	950	950	950	950

Ordering Code

Model	Specification	Description				
CM	Metal Tube Flow Meter					
	<ul style="list-style-type: none"> Flow Direction 					
	1	Bottom → Top				
	<ul style="list-style-type: none"> Meter Size 					
	15	15A (1/2")	50	50A (2")	150	150A (6")
	20	20A (3/4")	65	65A (2-1/2")	200	200A (8")
	25	25A (1")	80	80A (3")	O	Others
	32	32A (1-1/4")	100	100A (4")		
	40	40A (1-1/2")	125	125A (5")		
	<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				
	P	Screw : PT				
	N	Screw : NPT				
	C	Clamp				
	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				
	<ul style="list-style-type: none"> Option 1 					
	S	Semi - Jacket				
	F	Full- Jacket				
	N	None				
	<ul style="list-style-type: none"> Option 2 					
	S	Totalizer				
	N	None				

[Example]

CM-1-15-A-J-1-N-N