

# Orifice Flow Meter

## COF-Series

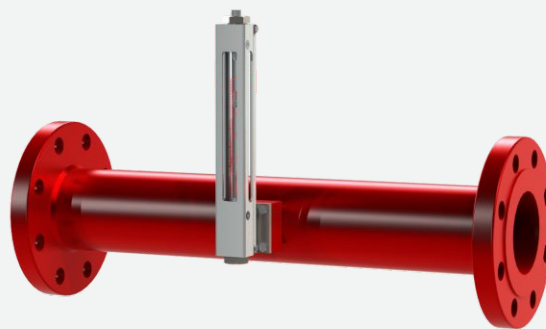
### | Description

#### Orifice Flow Meter

COF series for fire purpose is a flow meter to check the pump performance and the rated flow during installation and regular inspection of the fire extinguishing pump.

### | Features

- It is possible to install it as vertically or horizontally.
- It is convenient for maintenance and it is low cost for installation too.



### | Flow Chart

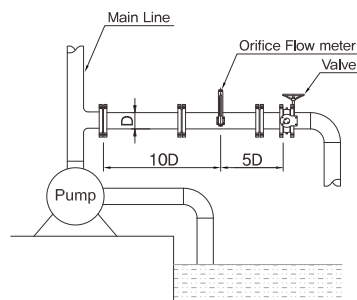
Size (d)	Measuring Range Liquid (L/min)	Scale	Orifice Diameter ( $\phi$ )	Length (mm)	
				Flange	Screw
25A	35 – 180	5	27,6	350	70
32A	70 – 360	10	35,7	350	74
40A	110 – 550	10	41,6	350	85
50A	220 – 1,100	20	52,9	350	90
65A	450 – 2,200	50	67,9	350	100
80A	700 – 3,300	100	80,7	350	110
100A	900 – 4,500	100	105,3	350	
125A	1,200 – 6,000	200	130,8	350	
150A	2,000 – 10,000	200	155,2	350	
200A	3,600 – 18,000	500	203,3	400	
250A	5,000 – 25,000	500	254,4	400	

## Specification

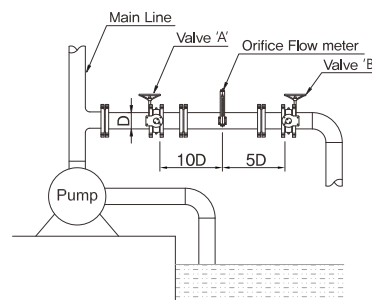
Measuring	Liquid
Meter Size	25A(1") ~ 250A(10")
Material	Body: Carbon Steel Float: SUS 304 Packing: NBR, EPDM
Pressure Rating	20 kgf/cm <sup>2</sup> (MAX)
Temperature	120°C (MAX)
Allowable Thermal Shock	80°C (MAX)
Connection	Flange Connection (JIS / ANSI / DIN / Other) Screw Connection (PT)
Accuracy	± 2.5% of F.S

## Installation Precautions

1. The figure below is an example of a test pipe using a flow meter for a fire pump.
2. It doesn't need to match a main pipe and a test pipe size.
3. It is required for a straight pipe length for an upstream and a downstream pipe to maintain a constant flow rate. (In case of using an elbow, it should be designed as straight pipe length of 10D in upstream and 5D in downstream.)



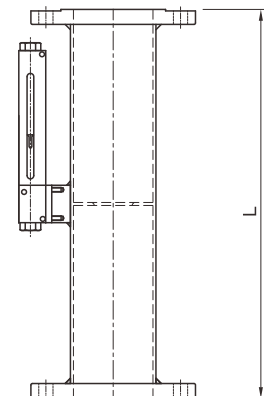
D : Pipe diameter



Open a valve "A" as 100%" and adjust its flow rate with a valve "B".

## Material & Dimension

Part List	Material		
Body	Carbon Steel		
Base Socket	Carbon Steel		SUS 316
Strainer, Orifice	SUS 304		SUS 316
Packing	NBR, EPDM, SILICON, FKM		
Taper Tube	PYREX GLASS		
Float	SUS 304		SUS 316
Indicator	ALUMINUM		SUS 304
Flange	ALUMINUM	SUS 304	SUS 316



COF

# Orifice Flow Meter

## Ordering Code

Model	Specification	Description
COF	Orifice Flow Meter	
	▪ Flow Direction	
1		Bottom → Top
5		Side → Side
	▪ Meter Size	
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")	
125	125A (5")	
150	150A (6")	
200	200A (8")	
250	250A (10")	
	▪ Connection	
J		JIS 10K
A		ANSI 150#
S		Screw
O		Others
	▪ Body Material	
A		Carbon Steel
B		SUS 304
C		SUS 316

[Example]

COF - 1 - 25 - J - A