

Metal tube flowmeter

Model : F823

Spec. sheet no. FD08-16

Description

It is suitable for the measurement in a high temperature and pressure depending on the flow rate. The float will assume a certain vertical position in the tube. The float position is transmitted by a magnetic coupling system to the scale.



Specification

Process connection

Flanged

Pressure rating

STD. 10 kgf/cm²
Max. 20 kgf/cm²

Size

15A ~ 200A

Temperature rating

STD. 120 °C
Max. 200 °C

Material

Steel
304SS
316SS

Accuracy

±3.0 % of full scale

1. Base model**F823** Metal tube flowmeter**2. Flow direction type****D1** Bottom and top**3. Line size**

JIS	mm	ANSI	inch	DIN	mm
J015	15A	A001	½B	D015	15A
J020	20A	A002	¾B	D020	20A
J025	25A	A003	1B	D025	25A
J040	40A	A004	1½B	D040	40A
J050	50A	A005	2B	D050	50A
J065	65A	A006	2½B	D065	65A
J080	80A	A007	3B	D080	80A
J100	100A	A008	4B	D100	100A
J125	125A	A009	5B	D125	125A
J150	150A	A010	6B	D150	150A
J200	200A	A011	8B	D200	200A
XXXX	Other				

4. Flange rating and connection type

J010 JIS 10K
A010 ANSI 150 Lb
P010 PN10
XXXX Other

5. Main material (See material table)

B Body material / 304SS
C Body material / 316SS
D Body material / 316L SS
O Other

6. Indicator and contact

LC Local indicator
L1 Local indicator with 1-SPDT alarm
L2 Local indicator with 2-SPDT alarm
LS Local indicator with current output (4~20 mA.DC)
LP Local indicator with current output and pulse output
OH Other

7. Option**NO** None

1	2	3	4	5	6	7
F823	D1	J015	J010	B	LC	NO

Sample ordering code

Flow chart

Size		H ₂ O flow rate (m ³ /h)	Ranges		Pressure loss (mmH ₂ O)	Dimension L (mm)
			Liquid (m ³ /h)	Gas (Nm ³ /h)		
15A	½B	0.1 ~ 1	0.02 ~ 0.2 0.2 ~ 2	0.6 ~ 6 3 ~ 30	600	350
20A	¾B	0.2 ~ 2	0.08 ~ 0.8 0.35 ~ 3.5	1.6 ~ 16 5 ~ 50	600	350
25A	1B	0.4 ~ 4	0.1 ~ 1 0.6 ~ 6	2 ~ 20 9 ~ 90	600	350
32A	1¼B	0.6 ~ 6	0.1 ~ 1 1 ~ 10	2 ~ 20 15 ~ 150	600	350
40A	1½B	0.8 ~ 8	0.2 ~ 2 1.5 ~ 15	4 ~ 40 20 ~ 200	800	350
50A	2B	1.5 ~ 15	0.5 ~ 5 2.5 ~ 25	6 ~ 60 40 ~ 400	800	350
65A	2½B	2.5 ~ 25	0.8 ~ 8 4 ~ 40	10 ~ 100 60 ~ 600	800	400
80A	3B	4.0 ~ 40	1.2 ~ 12 5 ~ 50	12 ~ 120 80 ~ 800	800	500
100A	4B	6.0 ~ 60	2.5 ~ 25 9 ~ 90	25 ~ 250 120 ~ 1,200	1,000	500
125A	5B	10 ~ 100	4 ~ 40 15 ~ 150	40 ~ 400 200 ~ 2,000	1,100	600
150A	6B	14 ~ 140	6 ~ 60 20 ~ 200	60 ~ 600 300 ~ 3,000	1,200	700
200A	8B	20 ~ 200	10 ~ 100 28 ~ 280	100 ~ 1,000 400 ~ 4,000	1,500	800

* When the size is larger than 65A, to be consulted with a maker

Material table

Part list	Material code		
	B	C	D
Body	304SS	316SS	316L SS
Flange	304SS	316SS	316L SS
Float	304SS	316SS	316L SS
Support	304SS	316SS	316L SS
Magnet rod	304SS + Alnico	316SS + Alnico	316L SS + Alnico
Stopper	304SS	316SS	316L SS
Taper tube	304SS	316SS	316L SS
Guide	304SS	316SS	316L SS
Cap	304SS		
Indicator	Aluminium		
Packing	NBR, Viton, Teflon		

Dimension

