

Glass tube flowmeter

Model : F803

Spec. sheet no. FD08-03

Description

Rotameters with all plastic construction are available for applications where metal wetted parts cannot be tolerated, such as with deionized water or corrosives. With plastic end fittings, care must be taken in installation, not to distort the threads.



Specification

Process connection

Screwed
Flanged

Pressure rating

Max. 5 kgf/cm²

Size

15A ~ 65A
65A ~ 100A

Temperature rating

Max. 60 °C

Material

PVC

Accuracy

±2.0 % of full scale
±1.0 % of full scale (Option)

WISE[®]

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Main order

Ordering information

1. Base model

F803 Glass tube flowmeter

2. Flow direction type

D1 Bottom and top
D2 Bottom and top side
D3 Bottom side and top side

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	1½B	D065	65A
J080	80A	A007	3B	D080	80A
J100	100A	A008	4B	D100	100A
XXXX	Other				

4. Screw type

TPTM PT male
TPTF PT female
TNTM NPT male
TNTF NPT female
XXXX Other

5. Flange rating and connection type

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

6. Body material (See material table)

P PVC

7. Float material

A Acetal
4 304SS
5 316SS
F PTFE
P PVC
O Other

8. Bolt and nut material

C Carbon steel
4 304SS

9. Option

1 One point alarm
2 Two point alarm
N None

1	2	3	4	5	6	7	8	9
F803	D2	J015	TPTM	J010	P	A	4	1

Sample ordering code



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Flow chart

Float Size	Standard flow rate water (m³/h)		Measuring range				Pressure loss (mmH₂O)		Pressure rating (kgf/cm²)	Dimension (mm)
			Water (m³/h)		Air (Nm³/h)					
	304SS	PVC	304SS	PVC	PVC acetal teflon	Aluminium 304SS	H₂O	Air		L
15A	0.1 ~ 1	0.08 ~ 0.8	0.03 ~ 0.3 0.2 ~ 2	0.03 ~ 0.3 0.15 ~ 1.5	0.3 ~ 3 1.2 ~ 12	0.3 ~ 3 2 ~ 20	100	20	10	360
20A	0.15 ~ 1.5	0.12 ~ 1.2	0.03 ~ 0.3 0.2 ~ 2	0.03 ~ 0.3 0.15 ~ 1.5	0.3 ~ 3 2 ~ 20	0.3 ~ 3 3 ~ 30	200	30	10	360
25A	0.35 ~ 3.5	0.25 ~ 2.5	0.15 ~ 1.5 0.5 ~ 5	0.1 ~ 1 0.35 ~ 3.5	1 ~ 10 4 ~ 40	1.5 ~ 15 6 ~ 60	250	40	7	400
32A	0.6 ~ 6	0.45 ~ 4.5	0.3 ~ 3 0.7 ~ 7	0.25 ~ 2.5 0.6 ~ 6	2 ~ 20 7 ~ 70	3 ~ 30 10 ~ 100	300	50	7	420
40A	1 ~ 10	0.8 ~ 8	0.35 ~ 3.5 1.2 ~ 12	0.3 ~ 3 1.0 ~ 10	3 ~ 30 12 ~ 120	4.5 ~ 45 15 ~ 150	350	60	7	440
50A	1.5 ~ 15	1.2 ~ 12	1 ~ 10 2 ~ 20	0.8 ~ 8 1.5 ~ 15	3.5 ~ 35 15 ~ 150	5 ~ 50 2 ~ 200	400	100	5	480
65A	2.5 ~ 25	2 ~ 20	1.5 ~ 15 3 ~ 30	1.2 ~ 12 2.5 ~ 25	6 ~ 60 30 ~ 300	9 ~ 90 40 ~ 400	400	100	4	550

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

Material table

Part list	Material code
	P
Body	PVC
Flange	304SS
Float	304SS / 316SS, PVC, Teflon, Acetal
Taper tube	Pyrex glass
Guide rod	304SS / 316SS
Packing	NBR, Teflon, Viton, EPDM
Stay bolt	Steel, 304SS
Nut	Steel, 304SS

* Guide rod can be excluded as per flow rate

Dimension

