

Glass tube flowmeter screw connection

Model : F802

Spec. sheet no. FD08-02

Description

The rotameter's operation is based on the variable area principle : Fluid raises a float in a tapered tube, increasing the area for passage of the fluid. The height of the float is directly proportional to the flow rate.



Specification

Process connection

Screwed

Pressure rating

Max.10 kgf/cm²

Size

15A ~ 65A

Temperature rating

Max.120 °C

Material

Steel
304SS
316SS

Accuracy

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

WISE[®]

| F802_01

1. Base model

F802 Glass tube flowmeter screw connection

2. Flow direction type

- D1** Bottom and top
- D2** Bottom and top side
- D3** Bottom side and top side

3. Line size

- T001** ½" (15A)
- T002** ¾" (20A)
- T003** 1" (25A)
- T004** 1½" (40A)
- T005** 2" (50A)
- T006** 2½" (65A)
- XXXX** Other

4. Connection type

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

5. Main material (See material table)

- A** Body material / Carbon steel
- B** Body material / 304SS
- C** Body material / 316SS
- O** Other

6. Float material

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

7. Option

- 10** One point alarm
- 20** Two point alarm
- NO** None

1	2	3	4	5	6	7	
F802	D2	T001	TPTM	A	5	NO	Sample ordering code



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Flow chart

Float Size	Standard flow rate water (m ³ /h)		Measuring range				Pressure loss (mmH ₂ O)		Pressure rating (kgf/cm ²)	Dimension (mm)
			Water (m ³ /h)		Air (Nm ³ /h)		H ₂ O	Air		L
	304SS	PVC	304SS	PVC	PVC acetal teflon	Aluminium 304SS				
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	40	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		
	A	B	C
Body	Carbon steel	304SS	316SS
Flange	Carbon steel	304SS	316SS
Float	304SS / 316SS, PVC, Teflon, Acetal		
Taper tube	Pyrex glass		
Guide rod	304SS / 316SS		
Packing	NBR	NBR, Viton, EPDM	
Stay bolt	Carbon steel	304SS	
Nut	Carbon steel	304SS	

* Guide rod can be excluded as per flow rate

Dimension

