

Glass tube flowmeter

Model : F809

Spec. sheet no. FD08-09

Description

Glass tube rotameters with protection cover are another design to protect glass from an external affects.



Specification

Process connection

Screwed
Flanged

Pressure rating

Max.10 kgf/cm²

Size

15A ~ 65A
65A ~ 100A

Temperature rating

Max.120 °C

Material

Steel
304SS
316SS

Accuracy

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

WISE[®]

| F809_01

1. Base model**F809** Glass tube flowmeter**2. Flow direction type**

D1 Bottom and top
D2 Bottom and top side
D3 Bottom side and top side
D4 Bottom side 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	1½B	D065	65A
J080	80A	A007	3B	D080	80A
J100	100A	A008	4B	D100	100A

4. Screw type

T001 ½" (15A)
T002 ¾" (20A)
T003 1" (25A)
T004 1½" (40A)
T005 2" (50A)
T006 2½" (65A)
T007 3"
T008 4"
XXXX Other

5. Flange rating and connection type

J010 JIS 10K
A010 ANSI 150 Lb
P010 PN10
TPTM PT male
TPTF PT female
TNTM NPT male
TNTF NPT female
XXXX Other

6. Main material (See material table)

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

7. Float material

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

8. Option

OP One point alarm
TP Two point alarm
NO None

1	2	3	4	5	6	7	8	
F809	D2	J015	T001	J010	A	5	NO	Sample ordering code

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) L
	304SS	PVC	Water (m ³ /h)		Air (Nm ³ /h)		H ₂ O	Air		
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
80A	4 ~ 40	3 ~ 30	2 ~ 20 5 ~ 50	1.6 ~ 16 4 ~ 40	10 ~ 100 50 ~ 500	15 ~ 150 70 ~ 700	500	150	3	620
100A	6 ~ 60	5 ~ 50	5 ~ 50 7 ~ 70	3 ~ 30 6 ~ 60	15 ~ 150 70 ~ 700	20 ~ 200 100 ~ 1,000	500	150	3	740

* 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

