Glass tube flowmeter flange connection
Model : F801

Spec. sheet no. FD08-01

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
Flanged

Pressure rating
Max.10 kgf/cm²

Size
15A ~ 100A
(65A ~ 100A)

Temperature rating
Max.120 ℃

Material
Steel
304SS
316SS

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

Main order — Ordering information

1. Base model

F801	Glass tube flowmeter flange connection

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
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)

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
F801	**D1**	**J015**	**J010**	**4**	**5**	**NO**

Sample ordering code

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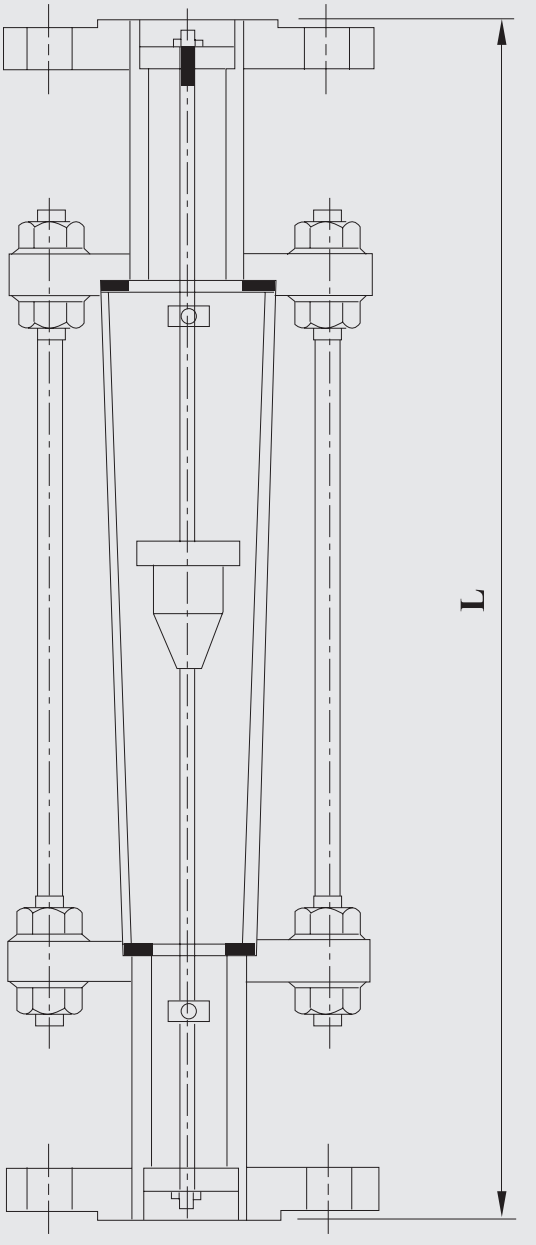
Flow chart

Float / Size	Standard flow rate water (m^3/h)		Measuring range				Pressure loss (mmH_2O)		Pressure rating (kgf/cm^2)	Dimension (mm)
			Water (m^3/h)		Air (Nm^3/h)					
	304SS	PVC	304SS	PVC	PVC acetal teflon	Aluminium 304SS	H_2O	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
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