

# 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/cm<sup>2</sup>

#### Size

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

#### Temperature rating

Max.120°C

#### Material

Steel  
304SS  
316SS

#### Accuracy

±2.0% of full scale

**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
<b>J015</b>	15A	<b>A001</b>	½B	<b>D015</b>	15A
<b>J020</b>	20A	<b>A002</b>	¾B	<b>D020</b>	20A
<b>J025</b>	25A	<b>A003</b>	1B	<b>D025</b>	25A
<b>J040</b>	40A	<b>A004</b>	1½B	<b>D040</b>	40A
<b>J050</b>	50A	<b>A005</b>	2B	<b>D050</b>	50A
<b>J065</b>	65A	<b>A006</b>	1½B	<b>D065</b>	65A
<b>J080</b>	80A	<b>A007</b>	3B	<b>D080</b>	80A
<b>J100</b>	100A	<b>A008</b>	4B	<b>D100</b>	100A
<b>XXXX</b>	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	Sample ordering code
<b>F801</b>	<b>D1</b>	<b>J015</b>	<b>J010</b>	<b>4</b>	<b>5</b>	<b>NO</b>	

## Flow chart

Float Size	Standard flow rate water (m <sup>3</sup> /h)		Measuring range				Pressure loss (mmH <sub>2</sub> O)		Pressure rating (kgf/cm <sup>2</sup> )	Dimension (mm) L
	304SS	PVC	Water (m <sup>3</sup> /h)		Air (Nm <sup>3</sup> /h)		H <sub>2</sub> O	Air		
			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	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

