

Flow gauge and Switch, Sight flowmeter

Model : F850

Spec. sheet no. FD08-21

Description

It is direct see-through type sight glass with internal flapper. In addition at normal observation of liquid color and introduction of foreign particles in liquids, approximate flow rate of liquid can be monitored by the opening angle of flapper.



Switch



Gauge

Features

- Flapper type

Specification

Measuring

Liquid, Air and Steam

Temperature

Operation : 0 ~ 100 °C
Max. : 120 °C

Meter size

15A (½") ~ 300A (12")

Connection

Flange connection (JIS / ANSI / DIN / Other)
Screw connection

Material

A105, 304SS, 316SS, 316L SS

Pressure rating

Max. 10 kgf/cm² (Standard)

Accuracy

±5.0 % of full scale

1. Base model

F850 Sight Flow gauge and Switch

2. Flow direction type

- 1** Bottom to Top
- 5** Side to Side
- 6** Top to Bottom

3. Meter size

- 15** 15A (½")
- 20** 20A (¾")
- 25** 25A (1")
- 32** 32A (1¼")
- 40** 40A (1½")
- 50** 50A (2")
- 65** 65A (2½")
- 80** 80A (3")
- 100** 100A (4")
- 125** 125A (5")
- 150** 150A (6")
- 200** 200A (8")
- 250** 250A (10")
- 300** 300A (12")
- O** Others

4. Body material

- A** 304SS
- B** 316SS
- C** 316L SS
- D** A105
- O** Others

5. Connection

- J** JIS 10K
- A** ANSI 150 Lb
- D** DIN PN16
- P** Screw : PT
- N** Screw : NPT
- O** Others

Sample ordering code

1	2	3	4	5
F850	1	15	A	J



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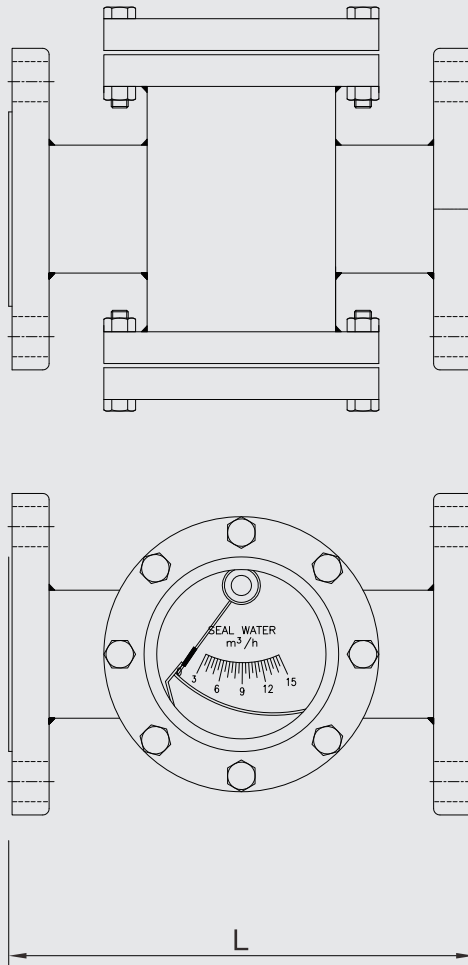
Flow chart

Size		Flow Rate	
		Liquid (m ³ /h)	AIR (Nm ³ /h)
15A	½B	0.1 ~ 0.5 0.4 ~ 2	6 ~ 30 12 ~ 60
20A	¾B	0.1 ~ 0.5 0.6 ~ 3	6 ~ 30 12 ~ 60
25A	1B	0.2 ~ 1 1 ~ 5	12 ~ 60 30 ~ 150
32A	1¼B	0.2 ~ 1 1 ~ 5	12 ~ 60 30 ~ 150
40A	1½B	0.4 ~ 2 2 ~ 10	16 ~ 80 60 ~ 300
50A	2B	0.6 ~ 3 3 ~ 15	20 ~ 100 90 ~ 450
65A	2½B	1.2 ~ 6 6 ~ 30	60 ~ 300 180 ~ 900
80A	3B	1.6 ~ 8 8 ~ 40	120 ~ 600 240 ~ 1,200
100A	4B	3 ~ 15 16 ~ 80	180 ~ 900 400 ~ 2,000
125A	5B	4 ~ 20 20 ~ 100	200 ~ 1,000 600 ~ 3,000
150A	6B	6 ~ 30 30 ~ 150	240 ~ 1,200 900 ~ 4,500
200A	8B	12 ~ 60 60 ~ 300	300 ~ 1,500 1,800 ~ 9,000
250A	10B	16 ~ 80 80 ~ 400	600 ~ 3,000 2,400 ~ 12,000
300A	12B	20 ~ 100 100 ~ 500	900 ~ 4,500 3,000 ~ 15,000

Material table

Part list	Material			
Cover	A105	ALUMINIUM	304SS	316L SS
Packing	NBR, EPDM, VITON, PTFE			
Body	A105	304SS	316SS	316L SS
Shaft	304SS	316SS	316L SS	
Spring	304SS	316SS	INCONEL, TITANIUM	
Flapper	304SS	316SS	316L SS	
Sight Glass	TEMPERED, PYREX			

Dimension



Size		Length (mm)	
		L (Flange)	L (Screw)
15A	½B	220	150
20A	¾B	220	160
25A	1B	220	180
32A	1¼B	220	200
40A	1½B	220	200
50A	2B	220	220
65A	2½B	260	220
80A	3B	300	
100A	4B	330	
125A	5B	380	
150A	6B	480	
200A	8B	650	
250A	10B	680	
300A	12B	720	