

Orifice flowmeter

Model : F820

Spec. sheet no. FD08-13

Description

It has an orifice at the inlet. A flow rate can be obtained by measuring a bypass flow rate produced by differential pressure generated before and behind an orifice plate.



Specification

Process connection

Flanged

Pressure rating

STD. 10 kgf/cm²
Max. 20 kgf/cm²

Size

15A ~ 500A

Temperature rating

STD. 120 °C
Max. 200 °C

Material

Steel
304SS
316SS

Accuracy

±3.0 % of full scale
±1.0 % of full scale (Option)

WISE[®]

| F820_01

1. Base model**F820** Orifice flowmeter**2. Flow direction type**

D1 Bottom and top
D3 Bottom side and top side
D5 Side and side
D6 Top and bottom

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	2½B	D065	65A
J080	80A	A007	3B	D080	80A
J100	100A	A008	4B	D100	100A
J125	125A	A009	5B	D125	125A
J150	150A	A010	6B	D150	150A
J200	200A	A011	8B	D200	200A
J250	250A	A012	10B	D250	250A
J300	300A	A013	12B	D300	300A
J350	350A	A014	14B	D350	350A
J400	400A	A015	16B	D400	400A
J450	450A	A016	18B	D450	450A
J500	500A	A017	20B	D500	500A
XXXX	Other				

4. Flange rating

JIS		ANSI		DIN	
J010	JIS 10K	A010	ANSI 150 Lb	P010	PN 10
J020	JIS 20K	A020	ANSI 300 Lb	P020	PN 16
ZZZZ	Other				

5. Main material (See material table)

B Body material / 304SS
C Body material / 316SS
D Body material / 316L SS
O Other

6. Float material

4 304SS
6 316L SS

7. Option

10 One point alarm
20 Two point alarm
NO None

1	2	3	4	5	6	7	
F820	D1	J015	J010	5	NO	NO	Sample ordering code

Flow chart

Size		Measuring range				Length	Weight
		Water (m ³ /h)		Air (Nm ³ /h)			
A	B	Flow rate	One scale	Flow rate	One scale	L (mm)	W (kg)
15A	½B	0.18 ~ 0.96	0.02	2 ~ 9.2	0.2	520	3.6
20A	¾B	0.45 ~ 2.4	0.05	5 ~ 23	0.5	520	4.2
25A	1B	0.8 ~ 4.2	0.1	8 ~ 40	1	520	5.4
32A	1¼B	1.2 ~ 6.4	0.2	12 ~ 60	2	520	6.7
40A	½B	1.8 ~ 9.4	0.2	18 ~ 90	2	520	7.1
50A	2B	3.5 ~ 18.5	0.5	35 ~ 175	5	520	8.5
65A	¾B	6 ~ 32	1	60 ~ 300	10	540	11.4
80A	3B	8 ~ 42	1	80 ~ 400	10	540	12
100A	4B	16 ~ 80	2	160 ~ 800	20	540	15.5
125A	5B	25 ~ 125	5	250 ~ 1,250	50	540	20
150A	6B	35 ~ 180	5	350 ~ 1,700	50	540	27
200A	8B	60 ~ 320	10	600 ~ 2,800	50	540	35
250A	10B	90 ~ 480	10	900 ~ 5,000	100	540	50
300A	12B	160 ~ 820	20	1,600 ~ 7,800	200	540	61
350A	14B	200 ~ 1,000	20	2,000 ~ 9,500	200	540	74
400A	16B	300 ~ 1,500	50	3,000 ~ 14,500	500	540	93
450A	18B	400 ~ 2,000	50	4,000 ~ 19,000	500	540	119
500A	20B	500 ~ 2,500	50	5,000 ~ 24,000	500	540	130

Material table

Part list	Material code		
	B	C	D
Body	304SS	316SS	316L SS
Block	304SS	316SS	316L SS
Indicator	AL die cast		
Taper tube	304SS, 316SS		
Float	304SS, 316SS		
Flange	304SS	316SS	316L SS

Dimension

