

Turbine flowmeter

Model : F901

Spec. sheet no. FD09-01

Description

It offers a high accuracy and repeatable measurement under the most demanding conditions of oil and gas custody transfer applications. High accurate measurement is achieved by using a bladed rotor that turns at a speed proportional to rate of flow. The rotation of the rotor is sensed by electrical pickoffs mounted on the meter body, generating a pulsing voltage. The total number of pulses collected over a period of time represents the metered volume.



Power supply type

Specification

Process connection

Flanged
Screwed

Pressure rating

STD. 10 kgf/cm²
Max. 350 kgf/cm² (Option)

Size

10A ~ 250A

Temperature rating

STD. 120 °C
Max. 200 °C (Option)

Accuracy

±1.0 % of full scale

Material

304SS
316SS
316L SS

Enclosure

Ex d IIB T6

WISE[®]

1. Base model

F901 Tubine flowmeter

2. 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
XXXX	Other				

3. Flange rating

JIS		ANSI		DIN	
J010	JIS 10K	A010	ANSI 150Lb	P010	PN 10
J016	JIS 16K	A020	ANSI 300Lb	P016	PN 16
J020	JIS 20K	A030	ANSI 600Lb	P020	PN 20
J030	JIS 30K	A040	ANSI 900Lb	P025	PN 25
J040	JIS 40K	A050	ANSI 1,500Lb	P040	PN 40
ZZZZ	Other				

4. Main material (See material table)

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

5. Power supply

- P10** DC 24 V (4 wire system)
P20 AC 110 ~ 220 V (50 ~ 60 Hz)

6. Contact

- OP** One point alarm
TP Two point alarm
OT Other

7. Option

- NO** None

1	2	3	4	5	6	7
F901	J100	J016	B	P10	OP	NO

Sample ordering code

Flow chart

Size		Liquid flow rate (m³/h)	Length (mm)
10A	$\frac{3}{8}$ B	0.04 ~ 0.25	120
15A	$\frac{1}{2}$ B	0.4 ~ 4.0	150
20A	$\frac{3}{4}$ B	0.6 ~ 6.0	150
25A	1B	1.0 ~ 10	200
40A	1 $\frac{1}{2}$ B	2.0 ~ 20	250
50A	2B	4.0 ~ 40	250
80A	3B	10 ~ 100	300
100A	3B	20 ~ 200	330
150A	6B	30 ~ 300	330
200A	8B	50 ~ 500	360
250A	10B	100 ~ 1,000	360

* When the size is larger than 65A, to be consulted with a maker

Material

Part list	Material		
	B	C	D
Body	304SS	316SS	316L SS
Flange	304SS	316SS	316L SS
Rotor support	316SS	316SS	316SS
Rotor	Tungsten carbide (CD4MC II SUS)		
Rotor shaft	Tungsten carbide		

Dimension

