

# 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/cm<sup>2</sup>  
Max. 350 kgf/cm<sup>2</sup> (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

**1. Base model**

**F901** Tubine flowmeter

**2. 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>	2½B	<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>J125</b>	125A	<b>A009</b>	5B	<b>D125</b>	125A
<b>J150</b>	150A	<b>A010</b>	6B	<b>D150</b>	150A
<b>J200</b>	200A	<b>A011</b>	8B	<b>D200</b>	200A
<b>J250</b>	250A	<b>A012</b>	10B	<b>D250</b>	250A
<b>XXXX</b>	Other				

**3. Flange rating**

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

**4. Main material (See material table)**

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

**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 (m <sup>3</sup> /h)	Length (mm)
10A	3/8B	0.04 ~ 0.25	120
15A	1/2B	0.4 ~ 4.0	150
20A	3/4B	0.6 ~ 6.0	150
25A	1B	1.0 ~ 10	200
40A	1 1/2B	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

