

# Turbine flowmeter

## Model : F902

Spec. sheet no. FD09-02

### Description

It is 2 wire turbine flow transmitter specially used for various industrial application and operated by battery with life time, 3 ~ 4 years. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate.



### 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)

#### Material

304SS  
316SS  
316L SS

#### Accuracy

±1.0 % of full scale

**1. Base model****F902** 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
- O** Other

**5. Option**

- NO** None

1	2	3	4	5	
<b>F902</b>	<b>J100</b>	<b>J016</b>	<b>B</b>	<b>NO</b>	<b>Sample ordering code</b>

## Flow chart

Size		Liquid flow rate (m <sup>3</sup> /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	

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

## Material table

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

## Dimension

