



VORTEX FLOWMETER

VORTEX Flow Meter AIVFL/AIVFG 24



LIQUID



AIR/GAS/STEAM

DESCRIPTION

The vortex flow meter is used for measuring the flow velocity of gases or liquids in pipelines flowing full. The measuring principle is based on the development of a Karman vortex shedding street in the wake of a body built into the pipeline. The periodic shedding of eddies occurs first from one side and then from the other side of a bluff body (vortex-shedding body) installed perpendicular to the pipe axis. Vortex shedding generates a so-called "Karman vortex street" with alternating pressure conditions whose frequency is proportional to the flow velocity.

SPECIFICATIONS

Application range	(1)Gas;(2)Liquid;(3)Steam
Measured Value	
Primary measured value	Flow Rate
Secondary measured value	Volume flow;
	(Pressure and Temperature is available)
Temperature	
Process Temperature	T1 Level:-20...+100
	T2 Level:-20...+250
	T3 Level:-20...+350
Ambient Temperature	-10...+70
Pressure	
EN 1092-1	DN200...DN300: PN10
	DN100...DN200: PN16
	DN15...DN80: PN25
	Other pressures on request
ASME B16.5	1/2"...8":150lb RF
JIS	Other pressures on request
	1/2"...8": 10K
Reference conditions	Flow conditions similar to EN 29104
	Medium: Water/Gas/Steam
	Electrical conductivity: ?300uS/cm
	Temperature: -10...+30
	Inlet section: ?10 DN
	Operating pressure: 1bar/14.5 PSIG
Flow Meter Accuracy	For Liquid: 1.0% of Rate
	For Gas and Steam: 1.5% of Rate
Body Material	SS304
	SS316
Converter Material	Standard: Polyurethane coated die-cast aluminum

Model Selection

Model	AIVF/AIVF 24								Description
Fluid	L								Liquid
	G								Gas / Ar
	S								Steam
Diameter	XXX								DN15-DN250
Converter Type	C								24V DC; 4-20 mA output / Pulse output;
	D								24V DC; 3-wire 4-20mA output; Temperature & Pressure Compensation
Communication	C								Modbus RS485
	N								None
Body Material	S4								SS304
	S6								SS316
Explosion Proof	F								FLAME PROOF IIA/IIB/II/IS/IEC60079-1-2007
	NA								No explosion proof
Connection	WAF								Wafer connection
	DXX								D16: DIN PN16 flange; D25: DIN PN25...
	AXX								A15: ANSI 150# flange; A30: ANSI 300#...
	JXX								J10: JIS 10K flange; J20: JIS 20K...
Temperature	T1								-20...+100 °C
	T2								-20...+250 °C
	T3								-20...+350 °C

Flow Range

Diameter (mm)	Liquid (m3/h)	Gas (m3/h)
15	1.2 ~ 6.2	5 ~ 25
20	1.5 ~ 10	8 ~ 50
25	1.6 ~ 16	10 ~ 70
40	2.5 ~ 26	22 ~ 220
50	3.5 ~ 38	36 ~ 320
65	6.2 ~ 65	50 ~ 480
80	10 ~ 100	70 ~ 640
100	15 ~ 150	130 ~ 1100
125	25 ~ 250	200 ~ 1700
150	36 ~ 380	280 ~ 2240
200	62 ~ 650	580 ~ 4960
250	140 ~ 1400	970 ~ 8000
300	200 ~ 2000	1380 ~ 11000


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