

VORTEX FLOW METER

MODEL CODE : ELUGB

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.

APPLICATION

- Pharmaceutical
- Foodstuff
- Beverage



TECHNICAL SPECIFICATIONS - STANDARD VERSION

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 to +100°C
	:	T2 Level:-20 to +250°C
	:	T3 Level:-20 to +350°C
Ambient Temperature	:	-10 to +70°C
Pressure		
EN 1092-1	:	DN200DN300: PN10
	:	Dn100 to DN200: PN16
	:	Dn15 to DN80: PN25
	:	Other pressures on request
ASME B16.5	:	1/2" to 8":150lb RF
	:	Other pressures on request
JIS	:	1/2" to 8": 10K
	:	Other pressures on request
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

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FLOW RANGE

Diameter		Liquid	Gas
(mm)	(Inch)	Flow (m ³ /h)	Flow (m ³ /h)
15	1/2"	1.2 to 6.2	5 to 25
20	3/4"	1.5 to 10	8 to 50
25	1"	1.6 to 16	10 to 70
40	1-1/2"	2.5 to 26	22 to 220
50	2"	3.5 to 38	36 to 320
65	2-1/2"	6.2 to 65	50 to 480
80	3"	10 to 100	70 to 640
100	4"	15 to 150	130 to 1100
125	5"	25 to 250	200 to 1700
150	6"	36 to 380	280 to 2240
200	8"	62 to 650	580 to 4960
250	10"	140 to 1400	970 to 8000
300	12"	200 to 2000	1380 to 11000

Notice: The flow range as above is for reference only. 3

Consult the factory if you have special requirement. Refer to the nameplate or certificate for actual flow range.

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HOW TO ORDER

BASIC MODEL CODE		Example	
FLUID		ELUGB	
L Liquid	G Gas / Ar		X
S Steam			
DIAMETER		XXX	
XXX DN15-DN300			
STRUCTURE		X	
S Compact	L Remote		
CONVERTER TYPE		X	
N 24V DC, Pulse output, No display, Ex	D 24V DC, 3-wire 0-20mA output; Temperature & Pressure Compensation		
A 24V DC, 4-20 mA output, Pulse output, No display, Ex	Notice 1)Modbus RS485 is optional for C,V,D series 2)Dual Power(24VDC+Battery) is optional for C,V,D series		
B Battery power supply, No output, Ex,			
C 24V DC, 4-20 mA output / Pulse output			
V 24V DC, 4-20mA output / Pulse output (A type is only for Gas / Steam application)			
BODY MATERIAL		XX	
S4 SS304	S6 SS316		
EXPLOSION PROOF		XX	
BT Exd II BT6	NA No explosion proof		
CT Exd II CT4			
CONNECTION		XXX	
WAF Wafer connection	A15: ANSI 150# flange; A30: ANSI 300#		
DXX D16: DIN PN16 flange, D25: DIN PN25	J10: JIS 10K flange, J20: JIS 20K		
TEMPERATURE		XX	
T1 -20 TO +100 °C			
T2 -20 TO +250 °C			
T3 -20 TO +350 °C			

Ordering Example: ELUGB - X - XXX - X - X - XX - XX - XXX - XX

FOR OTHER OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing.

Modifications may take place and materials speci?ed may be replaced by others without prior notice.