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Vortex Flowmeter

Vortex Flow Meter (Series EUVORT)

Principle of Vortex meter is based on the Karman vortex street. When fluid flows through a bluff body, vortices are alternately formed on both sides with opposite directions of rotation. These vortices each generate small amount of pressure. The pressure fluctuations are recorded by the sensor and converted to electrical pulses. The vortices develop very regularly within the permitted limits of the meter. Therefore, the frequency of vortex shedding is proportional to the volume flow.

Operating Conditions

Application : Gas, Liquid Steam

Meter size : DN 15 to DN300

Flow : Liquid 1.2 – 6.2 to 200 - 2000 m³/h,

Gas/Steam 5 – 25 to 1380 - 11000 m³/h

Ambient Temperature : - 20 to +70 deg C.

Fluid Temperature : - 20 to +350 deg C.

Operating Pressure : as per flange rating

Wetted parts : SS316 / SS304

Performance

Repeatability: $\pm 0.1\%$

Accuracy: Liquid $\pm 1\%$ of reading

Gas/ Steam $\pm 1.5\%$ of reading

Power supply, Protection

Power Supply : 24 VDC / Battery operated

Flow, Totaliser display : optional

Transmitter: 4 to 20 mA DC current signal

Housing : non ex. Proof / ex. proof

Protection : IP65

SIZE (mm)	WATER	AIR
(mm)	STANDARD MEASURING RANGE (m3/h)	STANDARD MEASURING RANGE (nm3/h)
25	1.3 ~ 13	8 ~ 60
32	1.5 ~ 15	14 ~ 100
40	3 ~ 30	18 ~ 180
50	4 ~ 40	30 ~ 300
65	6 ~ 60	50 ~ 500
80	13 ~ 130	70 ~ 700
100	20 ~ 200	100 ~ 1000
125	36 ~ 360	150 ~ 1500
150	50 ~ 500	200 ~ 2000
200	100 ~ 1000	400 ~ 4000
250	150 ~ 1500	600 ~ 6000
300	200 ~ 2000	1000 ~ 10000