

VA series Vortex flowmeter



The Vortex meter series VTX is equipped with a trapezoidal bluff body which induces a precise detachment of vortices with high repeatability. Liquids, gases and steam can be measured equally well.

Due to the special design of the bluff body the frequency of the vortices is proportional to the flow velocity and independent from pressure, temperature, density and viscosity. The vortices, detaching reciprocally from the bluff body, engender local changes in velocity and pressure, which are detected by a sensor and converted to a signal (4-20mA or NAMUR pulses) by a transmitter, equipped with an auto-adaptive and microprocessor-driven signal processing.

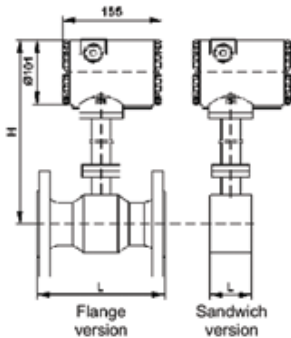
- Flange and wafer mount versions
- High temperature option to 450°C
- Suitable for liquids, steam and gas
- ATEX EEx design

Technical data	
Accuracy	Gas / steam : ± 0,9 % of measured value *) Liquids : ± 0,6 % of measured value *)
Repeatability	± 0,15 % of measured value
Operating temperature	-40°C to +270 °C standard -200 °C to +450 °C special design
Ambient temp	-40°C to +70 °C
Process connection	Wafer: DN 15 to 300; PN 10 to 40; Class 150 and 300. Flange: DN 15 to 300; PN 40; Class 150 and 300. Models up to PN 100 on request
Electrical connection	Power supply 14 - 30 VDC. 2 - wire - technology, 4-20 mA, HART or pulses (without HART) and pulse output acc. NAMUR (scalable) cable fitting M20x1,5
Materials	Bluff body: 1.4404 Housing: 1.4404 Gaskets: Viton, Graphite Electronic housing: casted aluminium
Safety class	EEx ia IIC T6 acc. ATEX 100a (EEx d in preparation)
EG-declaration of conformity	acc. EMV-guideline 89/336/EWG DIN EN 61000-6-2 / DIN EN 61000-6-3 and NAMUR NE 21

DN mm	Gas / Steam (m³/h)		Liquids (m³/h)	
	Lower value	Upper value	Lower value	Upper value
15	2	25	0,4	8
25	5	130	1,0	20
40	10	330	2,5	50
50	15	560	4	80
80	40	1600	6	180
100	60	2300	10	300
150	130	5300	20	600
200	250	9400	40	1200
250	400	16000	80	1800
300	500	20000	120	2500

Nominal size > DN 300 available on request

Dimensional Information



Flanged version

DN	L	H
15	200	335
25	200	330
40	200	340
50	200	340
80	200	355
100	250	370
150	300	395
200	300	425
250	380	440
300	450	465

Sandwich version

DN	L	H
15	65	335
25	65	330
40	65	340
50	65	340
80	65	355
100	65	370
150	90	395
200	120	425
250	140	440
300	160	465

Dimensions in mm

Ordering Information

Part Number: Contact Flowtechnik