

VXW

Vortex Flowmeter

VXW Series vortex flowmeter is manufactured according to Karman vortex principle. It is widely used to measure liquid, gas, steam flow in the closed pipeline. The frequency emitted by the Vortex is proportional to the flow rate. From the VXW series, a trepozoidal object is used for vortex creation. This structure ensures that all liquids and gases, even steam, create highly reliable vortexes. The well-designed sharp corner of the upright and wide object that forms the vortex guarantees excellent linearity.

Technical Features

- Compact structure
- No moving parts, long service time
- Long time stability

Display : Total flow and instant flow

Working Pressure : 1.6 to 32 Mpa **Ambient Temperature** : - 25 °C to +60 °C

Power : 24 VDC or 220 VAC

Relative Humidity : %5 - %95 **Atm. Pressure** : 86 - 106 Kpa **Measurable Fluid** : Liquid, Gas, Steam

Accuracy : %1 (Liquid), 1.5% (Gas and Steam)

Anti Explosion Grade: Exd Bt4

LCD Digital Display : L/min, m/h, kg/h, etc.

Output Signal : 4-20 mA Current (2 Wire System)

Standard Pulse Ouput (3 Wire System) Digital Communication Modbus RTU

 Medium Temp.
 : 100 - 300°C (High Temp. Type)

 Reynolds No. Range
 : 2x10 4 - 7x10 6 (DN 25 - DN 100)

4 x 10 ⁴ - 7 x 10 ⁶ (DN 150 – DN 300)



Where to use:

- Liquid, Gas and Steam Flow Measurement
- Boiler Efficiency Monitoring

Benefits;

- Calculation of steam costs by measuring the steam consumption of the plant and various units.
- Checking whether steam is supplied to the processes in operation at the correct amount and pressure.
- The efficiency of the plants and processes are monitored with steam flow meters.



Saturated Steam Flow Range

DN	Flow	Measurable Flow Range						
(mm)	(mm) Range	1 bar	2 bar 4 bar	6 bar	8 bar	10 bar	15 bar 20 bar	
25	Min.	10,2	14.9 24.9	33	41.9	50.8	72.7 94.9	
	Maks.	62.2	90.8 146.9	201.9	255.8	310.2	444.4 579.7	
40	Min.	24.9	36.3 58.7	80.7	102.3	124.1	177.8 231.9	
40	Maks.	226	330 534	734	930	1128	1616 2108	
50	Min.	40.7	59.4 96.1	132.1	167.4	203	290.9 379.4	
50	Maks.	361.6	528 854.4	1174.4	1488	1804.8	2585.6 3372.8	
80	Min.	84.8	123.8 200.3	275.3	348.8	423	606 790.5	
00	Maks.	709.6	036.2 1676.8	2304.8	2920.2	3541.9	5074.2 6619.1	
100	Min.	146.9	214.5 347.1	.5 347.1 477.1 604.5 733.2 1050.4	1050.4 1370.2			
100	Maks.	1243	1815 2937	4037	5115	6204	8888 11594	
150	Min.	316.4	462 747.6	1027.6	1302	2 1579.2 2262.4 2951.2	2262.4 2951.2	
130	Maks.	2531,2	3696 5980.8	8220.8	10416	12633.6	18099.2 23609.6	
200	Min.	655.4	957 1548.6	2128.6	2697	3271.2	3271.2 4686.4 6113.2	
200	Maks.	4746	6930 11214	15414	19530	23688	33936 44268	
250	Min.	1096.1	600,5 2589.9	3559.9	4510.5	5470.8	7837.6 10223.8	
250	Maks.	6215	9075 14685	20185	25575	31020	44440 57970	
300	Min.	1649.8	2409 3898.2	5358.2	6789	8234.4	11796.8 15388.4	
	Maks.	9040 1	3200 21360	29360	37200	45120	64640 84320	

Standard Pipe Length Requirement

Connection Pipe Form	Least Reuqirement of Straight Pipe				
Connection 1 ipc 101iii	Upper Flow	Down Flow			
Concentric Shrink Pipe	15D	5D			
Concentric Flare Pipe	35D	5D			
One 90° Turning	20D	5D			
wo 90° Turning in Same Plane	25D	5D			
wo 90° Turning in Different Plane	30D	5D			
Full Open Valve	20D	5D			
Half Open Valve	40D	5D			

Note: D means the nominal diameter of flowmeter If need install temperature sensor and/or pressure sensor in the pipe system, sensor should be installed the down flow of the flowmeter as the below figure shown.

