



An overview of the

FC12 series intelligent vortex flowmeter is based on Karman vortex principle to measure the flow of steam, gas and viscosity liquid. It is a new type of flowmeter with international advanced level, which has the advantages that other flowmeters cannot have both. It will take a dominant position in the future flow meter, and it is the most ideal alternative product of orifice flowmeter.

FC12 series intelligent vortex street flow transmitter is a new type of stress vortex street flow transmitter. The transmitter can output voltage pulse frequency signal or 4-20mA standard signal, easy to use with the control system.

This product can be widely used in petroleum, chemical industry, metallurgy, electric power, medicine, textile and water, natural gas station water supply, gas supply pipeline metering and control.

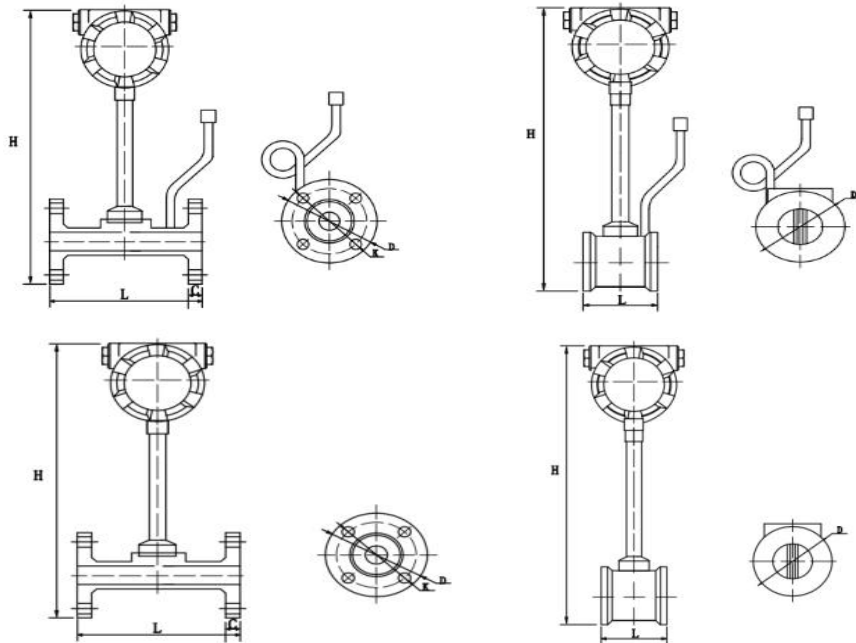
Technical indicators

CAL	DN25mm DN300mm
Measuring the dielectric	Saturated steam, superheated steam, liquid, gas
precision	±1.0%
Measurement repetition sex	0.3% (R)
Nominal pressure	1.6Mpa、2.5MPa、4.0MPa And above
The fluid temperature	-40~250°C(ordinary) , 100~350°C(High temperature type)
The output signal	Three wire pulse output or two wire system 4-20mA standard current
Working power supply	+24VDC
The workenvir onment	Temperature -25~60°C, humidity 90%RH

Flow measurement range

size mm	Liquid (water at room temperature m/h)		Gas (standard air m/h)		Steam (dry saturated steam m/h)	
	The minimum	The biggest	The minimum	The biggest	The minimum	The biggest
25	0.9	14	8.3	80	8	120
40	2.5	35	18	200	20	300
50	3.3	55	30	400	30	450
65	6	80	50	700	60	800
80	10	130	70	1000	100	1300
100	20	200	120	1800	200	2000
125	30	300	180	2500	300	3000
150	25	450	240	3500	450	4500
200	40	900	480	7000	900	9000
250	60	1200	600	10000	1200	15000
300	100	1600	1000	14000	1400	18500

Size chart



① DN15-DN300 Flange connection type dimensions

② DN15-DN300 Clamp connection type dimensions

nominal diameter (mm)	The length of the meter L (mm)	Flange connection type							
		Meter height H(mm)	The flange diameter D (mm)	The flange thickness The degree of C (mm)	Bolt hole From the K(mm)	Bolt hole diameter (mm)	Bolt hole number	Bolt specification	Piping specification
15	180	415	95	14	65	14	4	M12x60	Φ18x1.5
20	180	420	105	16	75	14	4	M12x60	Φ25x2.5
25	180	425	115	16	85	14	4	M12x60	Φ32x3.5
32	180	435	140	18	100	18	4	M16x70	Φ39x4.5
40	180	435	150	18	110	18	4	M16x70	Φ48x4
50	180	440	165	20	125	18	4	M16x70	Φ59x4.5
65	200	460	185	20	145	18	4	M16x70	Φ74x4.5
80	200	490	200	20	160	18	8	M16x70	Φ89x4.5
100	200	510	220	22	180	18	8	M16x70	Φ109x4.5
125	220	535	250	22	210	18	8	M16x70	Φ134x4.5
150	220	570	285	24	240	22	8	M16x90	Φ159x4.5
200	220	625	340	24	295	22	12	M16x90	Φ219x9
250	250	685	405	26	355	26	12	M24x110	Φ273x11
300	300	710	460	28	410	26	12	M24x110	Φ325x12

Nominal diameter (mm)	French clamp type				
	The length of the meter L(mm)	The length of the installation L(mm)	Meter height H(mm)	End face diameter D(mm)	Piping specification
15	80	116	400	68	Φ18x1.5
20	80	116	400	68	Φ25x2.5
25	80	116	400	68	Φ32x3.5
32	80	116	400	68	Φ39x3.5
40	80	116	404	80	Φ49x4.5
50	80	116	412	88	Φ59x4.5
65	80	116	428	105	Φ74x4.5
80	80	116	446	120	Φ89x4.5
100	80	118	472	148	Φ109x4.5
125	85	124	492	174	Φ134x4.5
150	90	135	515	196	Φ159x4.5
200	105	150	570	250	Φ219x9
250	120	166	620	300	Φ273x11
300	135	185	670	350	Φ325x12

Note: The above parameters are applicable to vortex flowmeters with flange connection type and pressure class of 1.6MPA.

Flange connection vortex flowmeter is not equipped with pipe flanges and bolts when leaving the factory, the user needs to purchase separately.

Selection guide

spectrum	instructions		
FC12	Vortex street flow sensor		
Product category	1	Flange connection type	
	2	Card mounted	
	3	plug-in	
Measured medium	1	liquid	
	2	The general gas	
	3	Saturated steam	
	4	Superheated steam	
Nominal pipe diameter	- ()	Caliber DN25 ~ 12	
Nominal pressure	C	2.5MPPa	
	D	4.0MPa	
	F	other	
The use of temperature	1	ordinary	
	2	High temperature type	
The table body material	1	Carbon steel	
	2	Stainless steel	
The output signal	1	Pulse output	
	2	4 ~ 20 ma with display	
Explosion-proof requirements	A	ordinary	
	B	Explosion-proof type	

Note: Special customization is supported

Vortex flowmeter supply scope does not include support flange, users can make or order