Vortex Flow Meter



Main Features

- A wide range of measuring media, liquids, gases and steam can be measured.
- With temperature and pressure compensation function, stable measurement.
- High working temperature, medium temperature of high temperature probe can reach 350℃.
- No moving parts, no wear, high reliability.
- It can transmit flow signal over long distances, and can be networked with computers to achieve centralized management.
- The sensor is made of stainless steel, which is corrosion resistant.

Measuring Medium

1. Mostly used for flow measurement of saturated steam and superheated steam.
2. It can also be used for nitrogen, methane, hydrogen, air, compressed air and other gases.
3. It can also measure liquids; when in use, care should be taken to avoid vibration.

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Flow Range Sheet

	Gas m^3/h	Steam kg/h	Liquid m^3/h
DN15	2–20	9–90	0.8–6
DN20	4–40	15–150	1–8
DN25	6–60	30–300	1.5–10
DN32	10–100	60–600	2–15
DN40	18–180	200–2000	3–20
DN50	30–300	300–3000	4–40
DN65	50–500	300–3000	6–60
DN80	70–700	500–5000	13–130
DN100	100–1000	800–8000	20–200
DN125	150–1500	1000–10000	36–360
DN150	200–2000	1500–15000	50–500
DN200	400–4000	2000–20000	100–1000
DN250	600–6000	3500–35000	150–1500
DN300	1000–10000	5000–50000	200–2000

Technical Data

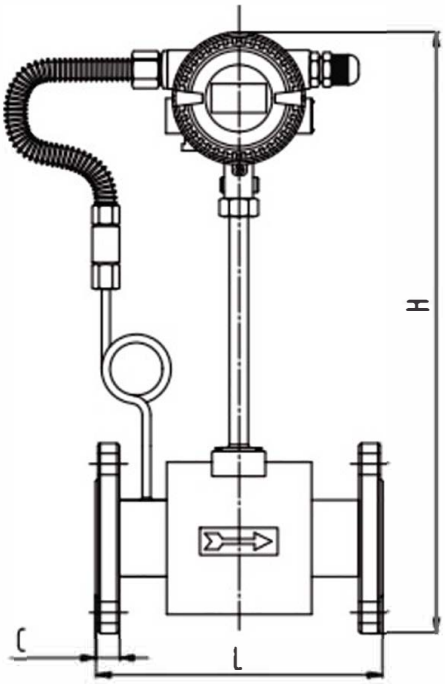
Item	Parameters
Nominal diameter	DN15–300mm
Power supply	24VDC / 220VAC / 3.6V
Material	Carbon steel / SS304 / SS316
Medium Temperature	–40–250℃ (260–350℃ high temperature probe optional)
Pressure	1.6MPa
Connection type	Thread connection (DN4–50mm) Clamping connection (DN15–300mm) Flange type (DN15–300mm)
Structure	Integrated type, Split type (10m cable) Insertion type (DN200–1500mm)
Protection level	IP65
Temperature and pressure	With/ Without
Output communication	Standard configuration: Pulse, 4–20mA, RS485 MODBUS, Hart

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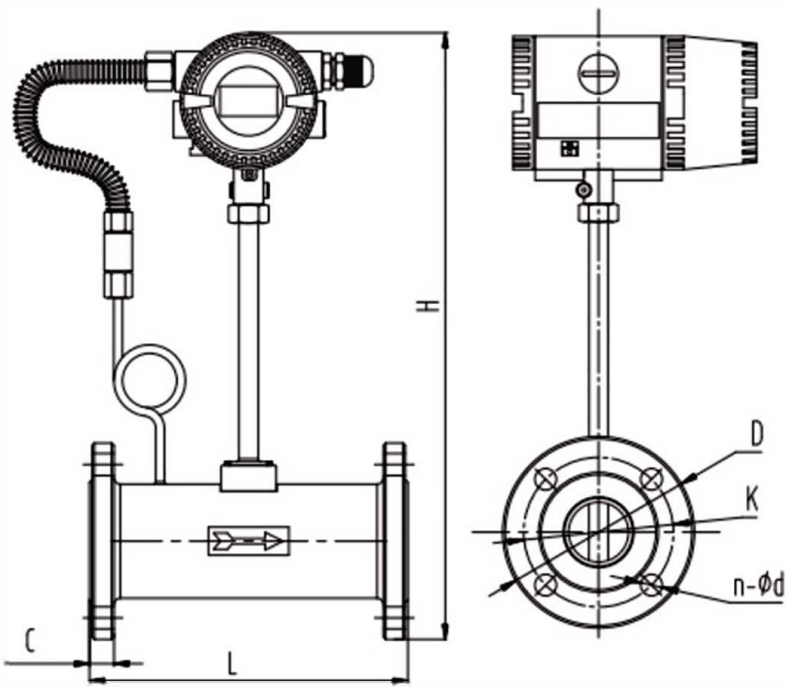
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Dimension



DN15-25mm



DN32-300mm

Technical Requirements

1.Vortex flange dimensions shall conform to HG/T 20592–2009

2.Vortex height +20mm

Inch	DN	L	H	D	K	n–Ød	C
1/2	15	200	430	95	65	4–Ø14	14
3/4	20	200	435	105	75	4–Ø14	16
1	25	200	440	115	85	4–Ø14	16
1 1/4	32	200	440	140	100	4–Ø18	18
1 1/2	40	200	450	150	110	4–Ø18	18
2	50	200	460	165	125	4–Ø18	19
2 1/2	65	200	480	185	145	8–Ø18	20
3	80	250	490	200	160	8–Ø18	20
4	100	250	510	220	180	8–Ø18	22
5	125	250	540	250	210	8–Ø18	22
6	150	250	570	285	240	8–Ø22	24
8	200	300	625	340	295	12–Ø22	26
10	250	300	685	405	355	12–Ø26	29
12	300	300	740	460	410	12–Ø26	32

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Selection Table

BTLUGB	XXX	X	X	X	X	X	X	X	X	X	X
Nominal diameter(mm)	Nominal Diameter Coding										
Design pressure	PN10 PN16 PN25 PN40	PN*									
	A15:ANSI150# A30:ANSI300# A60:ANSI600#	A*									
	Others(eg.J10:JIS10K ; D16:DINPN16)	*									
Media	Liquid		1								
	General gas		2								
	Saturated steam		3								
	Superheated steam		4								
Connection	Flange			1							
	Triclamp			2							
	Thread			3							
	Wafer			4							
	Plug-in			5							
	Others			6							
Temp.& Pressure Compensation	With				R						
	Without				F						
Signal Output	Pluse					N					
	4-20mA					A					
	4-20mA+pulse					B					
	4-20mA+RS485					C					
	4-20mA+HART					D					
	4-20mA+pulse+RS485					E					
	Others					F					
Power supply	3.6V						1				
	24VDC						2				
	3.6V+24VDC						3				
	220VAC						4				
Structure	Compact type							C			
	Remote type							R			
Design temperature	-20-250℃								S		
	-20-350℃								H		
Material	Carbon steel									1	
	SS304									2	
	SS316									3	
Accuracy	1.0% F.S										10
	1.5% F.S										15
Anti-explosion	Non-explosion proof										N
	Exd II CT6 Gb										H

Nominal Diameter Coding Table	
Nominal diameter	Coding
15	015
20	020
25	025
32	032
40	040
50	050
65	065
80	080
100	110
125	112
150	115
200	120
250	125
300	130
400	140
450	145
500	150
600	160
700	170
800	180
900	190
1000	210
1200	212
1400	214
1500	215
1600	216
1800	218
2000	220

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