# WAFER TYPE VORTEX FLOWMETERS
## CODE 0913-□□□□□□□□□□

CUSTOMIZABLE

- Suitable for flow measurement of various media including gases, liquids and steam in compact space piping conditions
- Measures and displays total flow, instantaneous flow, and percentage of full scale
- Low pressure loss, structurally stable, and easy to install and maintain
- Outputs a pulse frequency signal with strong interference resistance
- Stable performance and long service life



**0913-A5B3C1D3E1F1G1H1J1K1**

**Code explanation:**

**0913-A□B□C□D□E□F□G□H□J□K□**

| | |
|---|---|
| nominal diameter | power supply |
| nominal pressure | compensation |
| flow range | structure |
| process medium | housing material |
| communication | medium temperature |

**Code example:**

| | |
|---|---|
| **0913-A5B3C1D3E1F1G1H1J1K1** | **A5-**nominal diameter: DN50 |
| | **B3-**nominal pressure: DIN PN16 |
| | **C1-**flow range: standard range |
| | **D3-**process medium: general gas |
| | **E1-**communication: RS485 |
| | **F1-**medium temperature: -40°C~250°C |
| | **G1-**housing material: SUS304 |
| | **H1-**structure: integrated |
| | **J1-**compensation: without |
| | **K1-**power supply: DC24V |

## SPECIFICATION

| | | |
|---|---|---|
| **Structure** | integrated | separated<br>(standard cable length 10m, customizable) |
| **Process medium** | liquid, gas, steam | |
| **Measuring range ratio** | 1:10 (standard air condition as reference), 1:15 (liquid) | |
| **Flow range** | standard range, extended range (optional) | |
| **Velocity** | liquid: 0.4m/s~7.0m/s, gas: 4.0m/s~60.0m/s, steam: 5.0m/s~70.0m/s | |
| **Accuracy** | ±1.5% | |
| **Nominal diameter** | DN15~DN300 | |
| **Connection type** | wafer | |
| **Nominal pressure** | DIN PN6/PN10/PN16/PN25<br>ANSI 150#/300#<br>JIS 5K/10K/16K/20K (optional, other pressures are customizable) | |
| **Housing material** | SUS304, SUS316 (optional) | |
| **Signal output (volumetric flow)** | current: 4mA~20mA (2-wire), pulse | |
| **Communication** | RS485, HART (optional) | |
| **Medium temperature** | -40°C~250°C, -40°C~350°C (optional) | |
| **Protection grade** | IP65 transmitter+IP65 sensor | |
| **Compensation** | without, with temperature and pressure compensation (optional) | |
| **Power supply** | DC24V, 3.6V lithium battery, AC110V~240V, 50/60Hz (optional) | |
| **Operation condition** | temperature: -20°C~65°C, humidity: 5%RH~85%RH, atmospheric pressure: 86kPa~106kPa | |

### NOMINAL DIAMETER

| | |
|---|---|
| **A1** | DN15 |
| **A2** | DN20 |
| **A3** | DN25 |
| **A4** | DN40 |
| **A5** | DN50 |
| **A6** | DN65 |
| **A7** | DN80 |
| **A8** | DN100 |
| **A9** | DN125 |
| **A10** | DN150 |
| **A11** | DN200 |
| **A12** | DN250 |
| **A13** | DN300 |

### NOMINAL PRESSURE

| | |
|---|---|
| **B1** | DIN PN6 |
| **B2** | DIN PN10 |
| **B3** | DIN PN16 |
| **B4** | DIN PN25 |
| **B5** | ANSI 150# |
| **B6** | ANSI 300# |
| **B7** | JIS 5K |
| **B8** | JIS 10K |
| **B9** | JIS 16K |
| **B10** | JIS 20K |

### FLOW RANGE

| | |
|---|---|
| **C1** | standard range |
| **C2** | extended range |

### PROCESS MEDIUM

| | |
|---|---|
| **D1** | saturated steam |
| **D2** | superheated steam |
| **D3** | general gas |
| **D4** | liquid |

### COMMUNICATION

| | |
|---|---|
| **E1** | RS485 |
| **E2** | HART |

### MEDIUM TEMPERATURE

| | |
|---|---|
| **F1** | -40°C~250°C |
| **F2** | -40°C~350°C |

### HOUSING MATERIAL

| | |
|---|---|
| **G1** | SUS304 |
| **G2** | SUS316 |

### STRUCTURE

| | |
|---|---|
| **H1** | integrated |
| **H2** | separated (converter display) |
| **H3** | separated (flow totalizer remote display) |

### COMPENSATION

| | |
|---|---|
| **J1** | without |
| **J2** | with temperature and pressure compensation |

### POWER SUPPLY

| | |
|---|---|
| **K1** | DC24V |
| **K2** | 3.6V lithium battery |
| **K3** | AC110V~240V, 50/60Hz<br>(flow totalizer remote display) |

**FLOW RANGE**

| Nominal diameter | Liquid (Reference medium: normal temperature water) | | Gas (Reference medium: Gas at 20°C and 1013.25 hPa) | |
|---|---|---|---|---|
| | standard range ($m^3/h$) | extended range ($m^3/h$) | standard range ($m^3/h$) | extended range ($m^3/h$) |
| DN15 | 0.8~6 | 0.5~8 | 6~40 | 5~50 |
| DN20 | 1~8 | 0.5~12 | 8~50 | 6~60 |
| DN25 | 1.5~12 | 0.8~16 | 10~80 | 8~120 |
| DN40 | 2.5~30 | 2~40 | 25~200 | 20~300 |
| DN50 | 3~50 | 2.5~60 | 30~300 | 25~500 |
| DN65 | 5~80 | 4~100 | 50~500 | 40~800 |
| DN80 | 8~120 | 6~160 | 80~800 | 60~1200 |
| DN100 | 12~200 | 8~250 | 120~1200 | 100~2000 |
| DN125 | 20~300 | 12~400 | 160~1600 | 150~3000 |
| DN150 | 30~400 | 18~600 | 250~2500 | 200~4000 |
| DN200 | 50~800 | 30~1200 | 400~4000 | 350~8000 |
| DN250 | 80~1200 | 40~1600 | 600~6000 | 500~12000 |
| DN300 | 100~1600 | 60~2500 | 1000~10000 | 600~16000 |