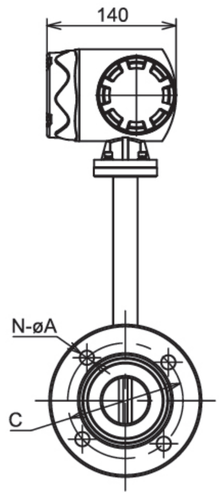
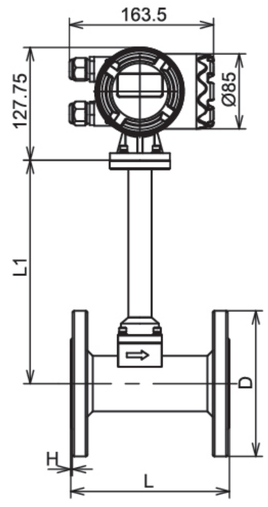
NINGBO KIO FLOW INSTRUMENTS CO., LTD

FLOWTECH®

# The Series KF300-FA Flanged Vortex Flowmeter

From DN15 to DN300, easy to install and maintain




**The Series KF300-FA Flanged Vortex Flowmeter** offers a wide measurement range, high precision, no moving parts, low maintenance costs, and a long service life. When fluid flows past the built-in shedder bar, alternating regular vortices are generated on either side. The vortex frequency is directly proportional to the fluid velocity, allowing flow rate calculation by detecting this frequency. Flanged vortex flowmeters are extensively used for measuring steam, air, water, and various gases/liquids in industrial pipelines. They primarily serve process control and metering applications in industries such as chemical, petroleum, power generation, and heating supply. These meters are ideal for scenarios demanding high accuracy and stability, including energy consumption monitoring and media flow ratio control.

## FEATURES

- ·Flange connection, convenient installation
- ·No moving parts, stable and reliable measurement
- ·High measurement accuracy
- ·Convenient maintenance, low maintenance cost.
- ·Wide range of turndown ratio, used in many industrial applications

## APPLICATIONS

- ·Petrochemical Industry
- ·Metallurgical Industry
- ·Textile Industry
- ·Pharmaceutical Industry
- ·Semiconductor Industry
- ·Food and Beverage Industry
- ·Paper and Pulp
- ·Power Plants
- ·Urban Water Supply and Drainage
- ·Environmental Protection
- ·New Energy Industry
- ·Shipbuilding Industry

## SPECIFICATIONS

| | |
|---|---|
| **Pipe Size** | DN15 - DN300 |
| **Accuracy** | ±1.0%RS |
| **Ambient Temperature** | -20℃ to 55℃ |
| **Temperature Rating** | Room temperature type: -45 ℃ to 100 ℃;<br>Medium temperature type: -45 ℃ to 250 ℃;<br>High temperature type: -45 ℃ to 330 ℃ |
| **Pressure Rating** | 1.0MPa - 4.0MPa (varies by model) |
| **Process Connection** | Flange connection |
| **Power supply** | 24V DC, 3.6V DC |
| **Output** | Optional pulse, 4-20mA, RS485, Hart |
| **Enclosure Rating** | IP65 |

## MODEL CHART

| Example | KF300 | -FA | -25 | -L | -S1 | -P0 | -C4 | -V1 | -02 | -V1 | -T | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Series** | KF300 | | | | | | | | | | | Flanged Vortex Flowmeter |
| **Process Connection** | | FA | | | | | | | | | | Flange Connection |
| **Pipe Size** | | | 15 | | | | | | | | | DN15, Range: Liquid 0.3 m³/h - 5 m³/h, Gas 3 m³/h -15 m³/h; L x L1 x D x C=180x233x95x65mm, N-ΦA=4-Φ14mm |
| | | | 20 | | | | | | | | | DN20, Range: Liquid 0.6 m³/h - 10 m³/h, Gas 6 m³/h - 30 m³/h; L x L1 x D x C=180x235x105x75mm, N-ΦA=4-Φ14mm |
| | | | 25 | | | | | | | | | DN25, Range: Liquid 1.2 m³/h - 16 m³/h, Gas 8 m³/h - 55 m³/h; L x L1 x D x C=180x238x115x85mm, N-ΦA=4-Φ14mm |
| | | | 32 | | | | | | | | | DN32, Range: Liquid 1.8 m³/h - 20 m³/h, Gas 10 m³/h -120 m³/h; L x L1 x D x C=180x240x140x100mm, N-ΦA=4-Φ18mm |
| | | | 40 | | | | | | | | | DN40, Range: Liquid 2 m³/h - 40 m³/h, Gas 27 m³/h - 205 m³/h; L x L1 x D x C=180x145x150x110mm, N-ΦA=4-Φ18mm |
| | | | 50 | | | | | | | | | DN50, Range: Liquid 3 m³/h - 60 m³/h, Gas 35 m³/h - 380 m³/h; L x L1 x D x C=180x250x165x125mm, N-ΦA=4-Φ18mm |
| | | | 65 | | | | | | | | | DN65, Range: Liquid 4 m³/h - 85 m³/h, Gas 60 m³/h - 640 m³/h; L x L1 x D x C=200x258x185x145mm, N-ΦA=8-Φ18mm |
| | | | 80 | | | | | | | | | DN80, Range: Liquid 6.5 m³/h - 130 m³/h, Gas 86 m³/h - 1100 m³/h; L x L1 x D x C=200x265x200x160mm, N-ΦA=8-Φ18mm |
| | | | 100 | | | | | | | | | DN100, Range: Liquid 15 m³/h - 200 m³/h, Gas 133 m³/h -1700 m³/h; L x L1 x D x C=200x275x220x180mm, N-ΦA=8-Φ18mm |
| | | | 125 | | | | | | | | | DN125, Range: Liquid 20 m³/h - 350 m³/h, Gas 150 m³/h - 2000 m³/h; L x L1 x D x C=220x288x250x210mm, N-ΦA=8-Φ18mm |
| | | | 150 | | | | | | | | | DN150, Range: Liquid 30 m³/h - 450 m³/h, Gas 347 m³/h - 4000 m³/h; L x L1 x D x C=220x300x285x240mm, N-ΦA=8-Φ22mm |
| | | | 200 | | | | | | | | | DN200, Range: Liquid 45 m³/h - 800 m³/h, Gas 560 m³/h - 8000 m³/h; L x L1 x D x C=220x325x340x295mm, N-ΦA=8-Φ22mm |
| | | | 250 | | | | | | | | | DN250, Range: Liquid 65 m³/h -1250 m³/h, Gas 890 m³/h -11000 m³/h; L x L1 x D x C=250x350x395x350mm, N-ΦA=12-Φ22mm |
| | | | 300 | | | | | | | | | DN300, Range: Liquid 95 m³/h - 2000 m³/h, Gas 1360 m³/h -18000 m³/h; L x L1 x D x C=300x375x445x400mm, N-ΦA=12-Φ22mm |
| **Services** | | | | L | | | | | | | | Liquid |
| | | | | G | | | | | | | | Gas |
| | | | | S | | | | | | | | Saturated steam |
| | | | | H | | | | | | | | Superheated steam |
| **Wetted Material** | | | | | S1 | | | | | | | 304 stainless steel |
| | | | | | S2 | | | | | | | 316 stainless steel |
| **Pressure Rating** | | | | | | P0 | | | | | | PN10 |
| | | | | | | P1 | | | | | | PN16 |
| | | | | | | P2 | | | | | | PN25 |
| | | | | | | P3 | | | | | | PN40 |
| **Compensation type** | | | | | | | C1 | | | | | No compensation |
| | | | | | | | C2 | | | | | Temperature compensation |
| | | | | | | | C3 | | | | | Pressure compensation |
| | | | | | | | C4 | | | | | Temperature and pressure compensation |
| **Power Supply** | | | | | | | | V1 | | | | 24V DC |
| | | | | | | | | V2 | | | | 3.6V DC |
| **Output Signal** | | | | | | | | | 01 | | | Pulse frequency output |
| | | | | | | | | | 02 | | | 4 - 20mA |
| | | | | | | | | | 03 | | | 4 - 20mA + RS485 (cannot be used simultaneously) |
| **Explosion -proof** | | | | | | | | | | N | | None |
| | | | | | | | | | | I | | Intrinsically safe |
| | | | | | | | | | | D | | Flameproof |
| **Others** | | | | | | | | | | | T | Others |