

TECHNOLOGY

**HOLYKELL®**

# HGVF FLOWMETER • DATASHEET •

1. Pressure Measurement 2. Level Measurement 3. Temperature Measurement  
**4. Flow Measurement** 5. Display & Control Instruments

# HGVF

## Gas Vortex Flow Meter

### Product Introduction

The gas vortex flow meters measure multiple gases, such as compressed air, coke oven gas, steam, etc. They are widely used in petroleum, chemical, electric power, light industry and etc.



### Product Features

1. No moving parts, long-term stability, simple structure, easy to install and maintain;
2. The output is pulse frequency which is linear with the actual flow rate of the fluid being measured; the zero point has no drift; diverse structure available, including pipeline and plug-in sensors;
3. The pressure loss is small (about 1/4~1/2 of that for orifice flow meter), an energy-saving flow meter;
4. The installation method is flexible. According to the different process pipelines on site, it can be installed horizontally, vertically and inclinedly at different angles;
5. Adopt noise elimination circuit and anti-vibration sensor head, which has certain anti-environmental vibration performance;
6. Use ultra-low power consumption single-chip microcomputer technology, one pc of 3V10AH lithium battery can work for more than 5 years;
7. EEPROM is used for power-down protection of accumulated flow, and the protection time is more than 10 years.

Specification

Model Spec	HGVF	
Medium	Medium and high speed velocity gas, such as steam, compressed air, etc.	
Accuracy	± 1.5%	
Instrument diameter(mm) and connection	Flanged	DN15-DN300
	Threaded	DN15-DN300
Range ratio	1:10, 1:15, 1:20	
Power supply	External power supply: +24VDC ± 15%, for 4-20mA, pulse output, RS485 etc. Internal power supply: 3.6V10AH lithium battery, for battery voltage 3.0V~3.6V	
Material	304 S/S, 316(L) S/S	
Usage condition	Environmental temperature: -20℃~+60℃ Medium temperature: -40℃~+250℃, -40℃~+350℃, Related humidity: 5%-95% Atmospheric pressure: 86kPa~106kPa	
Communication output	RS485, HART etc.	
Electrical interface	Female M20×1.5 (NPT by customized)	
Signal output	Pulse, 4-20mA	
Explosion proof rating	Exd II CT6 Gb	
IP rating	IP65 or higher by customized	

### How to Order

Model No.								Description
HGVF-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connection	1							Flanged
	2							Clamp-on by flange
Probe temperature	1							Low temperature probe( $\leq 70^{\circ}\text{C}$ )
	2							Medium temperature probe( $\leq 250^{\circ}\text{C}$ )
	3							High temperature probe( $\leq 350^{\circ}\text{C}$ )
Nominal diameter(mm)		15						DN15
		20						DN20
		25						DN25
		32						DN32
		40						DN40
		50						DN50
		65						DN65
		80						DN80
		100						DN100
		125						DN125
		150						DN150
		200						DN200
		250						DN250
		300						DN300
Structure			Z					Integrated meter
			F					Segregated meter
Meter type				N				No display, 24V/12V power supply, pulse
				A				No display, 24V, 4-20mA
				V				Site display, external power, 4-20mA/RS485/Pulse
				D				Temperature-compensated, external power, 4-20mA/RS485/Pulse/HART
Accuracy					N			Non-explosion proof
					E			Exd II CT6 Gb
Pressure resistance grade						N		Standard
						H <sub>(x)</sub>		High pressure (by customized)