



# PRODUCT OVERVIEW

# FLOW MEASUREMENT

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# MGVF Vortex Flow Meter

## Product Introduction



The vortex flow meters are designed for measuring the volume/mass flow of liquids, gases and steam based on Karman vortex principle. Adopting advanced differential algorithm along with measurement of isolation, shielding and wave filtering, They have the advantages of immunity on vibration and noise. Meanwhile, the liabilities of our vortex flow meters are well guaranteed by unique sensor packaging technology.

Vortex flow meters are widely used in petroleum, chemical, electric power, light industry, power heating and other industries.

**Technical Specification**

Measured Media	Liquid, General Gas, Steam
Nominal Diameter	DN15–DN300mm (In-line Type); DN150–DN2000mm (Insertion Type); Sizes above DN2000mm available upon request
Medium Temperature	-40°C to 100°C (Standard Temperature) -40°C to 250°C (Medium Temperature) -40°C to 320°C (High Temperature) -40°C to 350°C (Ultra-high Temperature)
Nominal Pressure	1.6 MPa, 2.5 MPa, 4.0 MPa (Higher pressures available upon request)
Accuracy	In-line Type: ±1.0%R, ±1.5%R Insertion Type: ±1.5%R, ±2.5%R
Power Supply	+12VDC (3-wire Pulse Output) +24VDC (3-wire Pulse Output / 2-wire Current Output) 3.6V Lithium BatteryDual Power Supply
Body Material	Stainless Steel 304 (Other materials available upon request)
Protection Class	IP65 (Higher protection ratings available upon request)
Environmental Conditions	Ambient Temperature: -20°C to +55°C Relative Humidity: 5% to 90% RH Atmospheric Pressure: 86 to 106 kPa

Order Information

Model No.								Description
MGVF	<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) In-line type: DN15-DN300 Insertion type: DN150-DN2000	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
	...							...
2000	DN2000							
Structure	Z							Integrated
	X							Clamp on
	F							Split by customized
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
Pressure resistance grade	N							Standard
	H <sub>(x)</sub>							High pressure (by customized)