



# 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.

## Features

<b>Modular construction</b>	The measurement system consists of a flow sensor and a signal converter. It is available as compact and as separate version
<b>Compact version converter</b>	N Type: 24V DC; Pulse output; No display; Ex
	A Type: 24V DC; 4-20mA output; No display; Ex
	V Type: 24V DC; 4-20mA/Pulse output (V type is only for Gas/ Steam application); Digital display; Ex
	D Type: 24V DC; 3-wire 4-20mA/Pulse output; Temperature & Pressure Compensation; Digital display; Ex
	Notice: 1. Modbus RS485 is optional for C,V,D series 2. Dual power(24V DC+ Battery) is optional for C,V,D series
<b>Connection</b>	Flange: DN15-DN300
	Wafer: DN15-DN300

## Technical Specification

### Material

Sensor housing	SS304; Other materials on request
Flanges	Flange Connection: SS304
	Wafer Connection Mating(Flange: Carbon Steel)
Converter Housing	Flange: DN15-DN300
	Wafer: DN15-DN300

### Process connections

Flange	SS304; Other materials on request
EN 1092-1	Flange Connection: SS304
	Wafer Connection Mating(Flange: Carbon Steel)
ASME	1/2" ...12" in 150 lb RF
JIS	1/2" ...12" in 10...20K
Design of gasket surface	RF, Other sizes or pressure ratings on request
Wafer	DN15...DN300

### Temperature

Process temperature	-20...+70°C
	-20...+250°C
	-20...+350°C

### Measurable flow rate range

Nominal Diameter		Liquid	Gas
(mm)	(In.)	Flow (m <sup>3</sup> /h)	Flow (m <sup>3</sup> /h)
15	1/2"	1.2 to 6.2	5 to 25
20	3/4"	1.5 to 10	8 to 50
25	1"	1.6 to 16	10 to 70
40	1-1/2"	2.5 to 25	22 to 220
50	2"	3.5 to 35	36 to 320
65	2-1/2"	6.5 to 65	50 to 480
80	3"	10 to 100	70 to 640
100	4"	15 to 150	130 to 1100
125	5"	25 to 250	200 to 1700
150	6"	36 to 380	280 to 2240
200	8"	62 to 650	580 to 4960
250	10"	140 to 1400	970 to 8000
300	12"	200 to 2000	1380 to 11000

*Note: The flow range above is for reference only. Consult the factory if you have special requirement.*

### Dimensions & Drawing

