



ADD VALUE FLOW

Coriolis Mass Flow Meter

Custody Transfer/Two-way Metering/Water-content Monitoring



QINGDAO ADD VALUE FLOW METERING CO., LTD.

K-series Coriolis Mass Flowmeters



■ Accuracy and Repeatability

Model	Flange Compatibility	Nominal Flowrate (Kg/h)	Maximum Flowrate (Kg/h)	Zero Stability (BPM-B) (Kg/h)	Zero Stability (BPM-E) (Kg/h)
K005	DN10/DN15	19.5	28	0.0015	0.0005
K010	DN10/DN15/DN20/DN25	96	110	0.0072	0.0024
K015	DN10/DN15/DN20/DN25	270	310	0.02025	0.0068
K025	DN15/DN20/DN25	1,000	1,420	0.075	0.025
K050	DN15/DN20/DN25	3,000	4,200	0.15	0.075
K075	DN25/DN32	7,700	11,000	0.385	0.19
K100	DN25/DN32/DN40	15,200	21,600	0.76	0.38
K150	DN40/DN50	32,500	46,000	1.625	0.81
K200	DN40/DN50/DN65	52,500	75,000	2.62	1.31
K280	DN80/DN100	96,000	136,000	4.80	2.4
K300	DN80/DN100/(DN125)	155,000	220,000	7.76	3.88
K350	DN100/(DN125)/DN150	290,000	403,000	21.75	7.25
K400	DN150/(DN175)/DN200	462,000	652,000	34.65	11.55
K600	DN200/(DN225)/DN250	950,000	1,550,000	71.25	23.75
K800	DN200/(DN225)/DN250/DN300	1,600,000	2,500,000	120	40.0
K1200	DN250/DN300/DN350	2,380,000	3,266,000	178.5	59.5

■ Accuracy and Repeatability

Mass Flow	Accuracy	Repeatability	Volume Flow Accuracy
Within turndown 20:1 (-B)	±0.1 %	±0.025 %	±0.1 %
Within turndown 30:1 (-E)	±0.1 %	±0.025 %	±0.1 %
Within turndown 40:1 (-E)	±0.15 %	±0.025 %	±0.1 %
Density	Accuracy	Repeatability	Measurement Range
	±0.0005 g/cm ³	±0.0001 g/cm ³	(0.2 ~ 2.0) g/cm ³
Temperature	Accuracy	Repeatability	Process Temperature
	±0.2 %	±0.1 °C	(-240 ~ +350) °C

■ Electrical Parameters

Power Supply (AC or DC)	AC Power Supply	(85 ~ 265) VAC, 50/60 Hz
	DC Power Supply	(18 ~ 100) VDC

■ Output Signal and Integration

Analog Communication (Two optional output channels)	Typical output channel options: two-way current communication, two-way pulse communication or one-way current communication and one-way pulse communication.	
Pulse Output	Output Range	(0 ~ 10) kHz
	Measured Error	<1 pulse
	Temperature Effect	±0.001% F.S/°C
Digital Communication	RS485 interface, Modbus communication protocol, HART Baud Rate Options: 9600, 19200, 38400, etc. Multi-machine communication and Modbus connection are available.	
Current Output	Output Range	(4 ~ 20) mA
	Measured Error	±0.05%
	Temperature Effect	±0.005% F.S/°C
Power Consumption	BPM transmitter maximum powers ≤ 11W	

■ Hazardous Area Classifications

Ex Approval	Sensor	Ex ib IIC T1~T6Gb
	Transmitter	Exd [ib] IIC T6 Gb
	Ex-proof Appliance	Complies with GB3836.1-2010, GB3836.2-2010, GB3836.4-2010.
	Application Area	Applicable to hazardous area Zone1, Zone 2.
	Device Category	IIC, compatible with IIA & IIB
	Temperature Class	T1-T6
Ingress Protection Rating	Sensor	IP66/IP67
	Transmitter	IP66/IP67

VMF-series Coriolis Mass Flowmeters



High Accuracy: $\pm 0.1\%$
Wide Turndown: 20:1



Streamlining tubes & drainable design
Featuring low pressure loss



Compact design,
Widest selection of installation
Available with hygienic application



Advanced BIT ability &
meter health diagnostics



Ultimate DSP technology enabling high
accuracy and low measurement error
Ensure best performance by reducing
temperature drift and time drift

Accuracy and Repeatability

Model	Flange Compatibility	Nominal Flowrate (Kg/h)	Maximum Flowrate (Kg/h)	Zero Stability (BPM-B) (Kg/h)	Zero Stability (BPM-E) (Kg/h)
VMF02	DN10/DN15/DN20	120	160	0.009	0.003
VMF03	DN10/DN15/DN20	320	410	0.024	0.008
VMF06	DN10/DN15/DN20	1,370	2,700	0.10	0.03
VMF15	DN15/DN20/DN25	4,200	8,100	0.32	0.11
VMF25	DN25/DN32/DN40	19,500	32,700	1.46	0.49
VMF50	DN40/DN50/DN65	59,500	87,100	4.46	1.49
VMF80	DN80/DN100/DN125	133,000	238,000	9.98	3.33
VMF100	DN100/DN125/DN150	327,000	436,000	24.53	8.175
VMF150	DN150/DN200	620,000	860,000	46.50	15.5
Turndown 20:1		Accuracy	Repeatability		
BPM-B		$\pm 0.15\%$	$\pm 0.05\%$		
BPM-E		$\pm 0.1\%$	$\pm 0.05\%$		

V-series Coriolis Mass Flowmeters



Accuracy and Repeatability

Model	Flange Compatibility	Nominal Flowrate (Kg/h)	Maximum Flowrate (Kg/h)	Zero Stability (Kg/h)
V025	DN10/DN15/DN20/DN25	1,700	2,000	0.1
V050	DN15/DN20/DN25	4,800	6,500	0.33
V100	DN25/DN32/DN40	10,300	18,000	0.9
V150	DN40/DN50	23,600	45,000	2.25
V200	DN50/DN65/DN80	59,000	70,000	3.5
V300	DN80/DN100	159,500	180,000	9.0
Turndown 20:1		Accuracy	Repeatability	
BPM-B		±0.15%	±0.05%	

Application Cases



ADD VALUE FLOW



**中国海油
CNOOC**



PetroChina



Company Profile

Qingdao Add Value Flow Metering Co., Ltd. is located in Qingdao Free Trade Zone. It is a high-tech enterprise integrating R & D, production, sales and service. ADD VALUE FLOW has independently developed two series of products including Coriolis Mass Flow Meters and Online Vibrating Tube Liquid Density Meter, and have obtained national invention patents. The company has advanced equipment, established a complete production inspection process, and certified by 1S09001 and 1S014001. ADD VALUE FLOW Coriolis mass flowmeters are widely used in various occasions such as quantitative loading automation and chemical process quality control in Sinopec, PetroChina and many major refineries. We commit in offering ultimate and superior flow measuring service.

Calibration System



Application Cases



QINGDAO ADD VALUE FLOW METERING CO., LTD.

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