Coriolis Mass Flow Meter

VETRIX

CM-Series Coriolis Mass Flow Meter directly measures the “Mass” of the medium with high accuracy based on the Coriolis Principle (Coriolis Force). The accuracy would not be affected by any factors like the temperature, pressure, density, viscosity, etc. And the compensation calculation is not required. The Coriolis Mass Flow Meter consists of two parts: the Senor and the Transmitter. The Corioils Mass Flow Meter is designed and produced based on the national standard of explosion- proof standards. The Explosionproof standard is Exd ib Ii Ct5 Gb.

Coriolis Mass Flow Meter could directly measure the “ Mass” of the liquid. And the accuracy is the highest among all types of flow meter, saying, 0.1~0.2%. The range of application is very large, and it could be used for the medium that difficult to be measured, like, high temperature, high pressure, high viscosity, double phases, triple phases. The requirements for the installation are low, the straight pipe requirement in front of and behind the Coriolis Mass Flow meters are low. They are more reliable, stable, and maintenance level is low.

Application	Suitable for liquid,gas, liquid-solid, Liquid-gas mass measurement or volume measurement
Material of Pipeline	SS316L/ Hastelloy HC
Pressure	Refer to chart shown above. Special orders would be placed for high pressure
Medium Temerature	-50°C~150°C -50°C~250°C -50°C~350°C -100°C~350°C
Enviroment Temperature	Sensor: -40°C~150°C; Transmitter:-20°~70°C
Flow Rate Measurement Accuracy	0.2%; 0.1% optional
Density Measurement Accuracy	0.002g/cm3;0.001g/cm3 optinal
Repeatability	0.10% Flow Rate±[1/2(Zero Point Stability/ Flow Rate)*100]% flow rate
Output Signal	4~20mA Load Resistance<500Ω(Instantaneous or Density optional) 0~10kHz Instantaneous Flow Rate pulse signal; Standard RS485 Communication
Explosion-proof Symbol	Ex d ib II CT5 Gb

Flow Range

Micro Type

Model	DN (mm)	Flow Range (kg/h)	Working Pressure (Mpa)	Connection Type
CM-1-1-AB	1.5	0~4	0~32	Weld Joints ø6×1.5
CM-1-1-A	3	0~40	0~32	Weld Joints ø6×1.5
CM-1-1-B	6	0~100	0~25	Weld Joints ø10×2
CM-1-2-A	8	0~200	0~20	Weld Joints ø10×1

Medium-Small Type

Model	DN (mm)	Flow Range (kg/h)	Working Pressure Mpa	Connection Type
CM-1-3-A	12	0~500	0~25	Weld Joints ø20×4
CM-1-3-B	14	0~1000	0~25	Weld Joints ø20×3
CM-1-4	16	0~3000	0~25	Weld Joints ø20×2
CM-1-5-A	25	0~10000	0~25	Weld Joints ø31×3

Large-Scale Type

Model	DN (mm)	Flow Range (t/h)	Working Pressure (Mpa)	Connection Type
CM-1-3-A	10	0-0.5	0~4	Flange 10
CM-1-3-B	15	0-1.0	0~4	Flange 15
CM-1-4	20	0-3.0	0~4	Flange 20
CM-1-5-A	25	0-10	0~4	Flange 25
CM-1-5-B	40	0-20	0~4	Flange 40
CM-1-6-A	50	0-30	0~4	Flange 50
CM-1-6-AB	65	0-50	0~4	Flange 65
CM-1-6-B	80	0-100	0~4	Flange 80
CM-1-6-C	100	0-150	0~4	Flange 100
CM-1-6-D	150	0-300	0~2	Flange 150
CM-1-6-E	200	0-500	0~2	Flange 150

Micro Type

Medium-Small Type

Large-Scale Type