Max-Flow

Fluid Technology

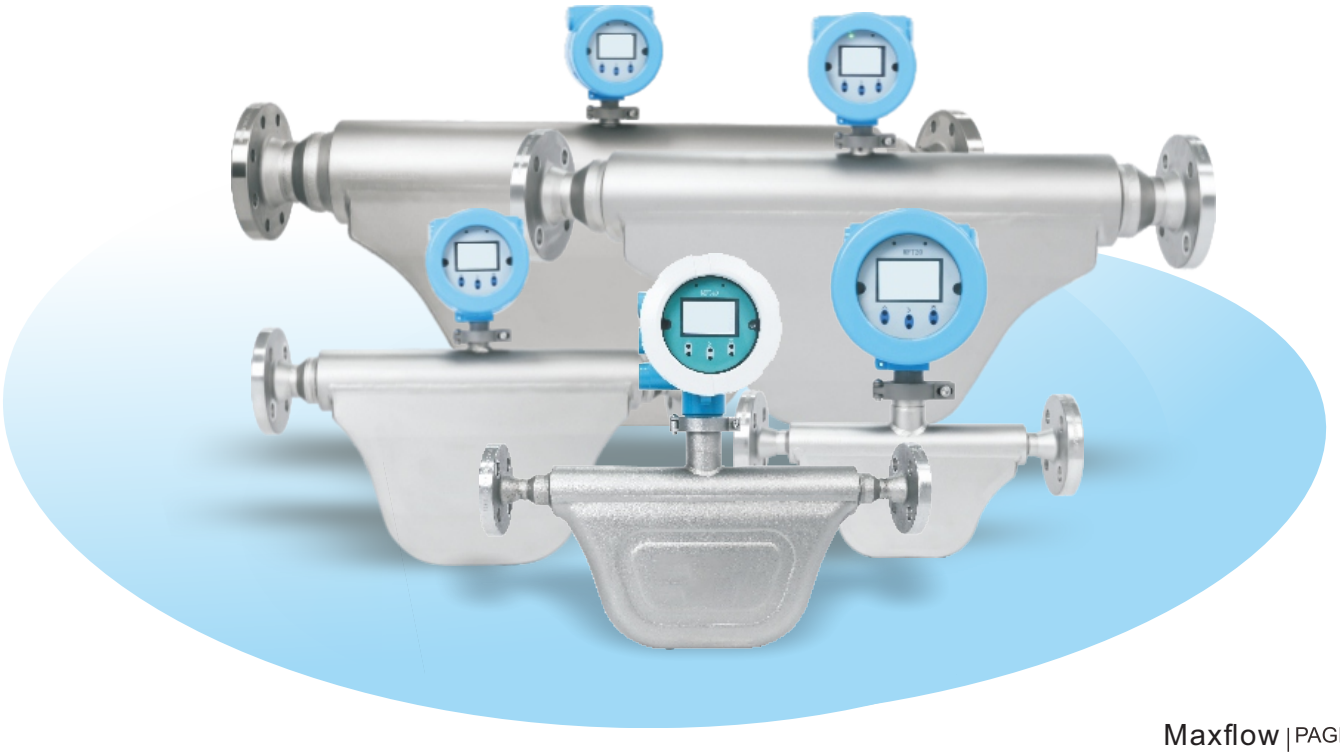


Coriolis Mass Flow Meter

Best measurement for best management!

01 Product overview

This product is designed according to the principle of Coriolis force. Under the alternating current effect, the magnet and coil installed on the measuring tube will make two parallel measuring tubes vibrate according to some fixed frequency. Once there is flow passing through the pipes, Coriolis force will give rise to deflection (phase shift) on the vibration of two pipes and the deflection of vibration is directly proportional to the mass flow of fluid. Pick up them and the mass flow rate could be calculated. The vibration frequency of measuring tube is determined by the total mass of measuring tube and inner fluid. When the fluid density changes, the vibration frequency of measuring tube will be also changed, as a result, the fluid density can be calculated. The temperature transducer installed in the pipeline can pick up the fluid temperature on time under the coordination of measuring circuit.



02 Main features

Enable to measure directly mass flow rate of fluid in the pipeline without changing any parameters, which avoids the some measurement error of intermediate links. Its mass flow rate can be high accuracy and good repeatability within bigger range of turn down ratio.

Fluid measured can be more extensive, such as the steady uniform flow of common viscosity fluid, the high viscosity fluid, non-Newtonian fluid, slurry containing some solid components and the liquid containing some trace of gas.

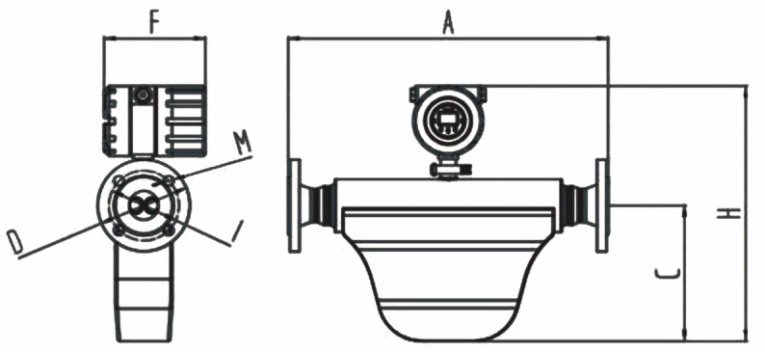
Due to the small vibration, measuring tube of the Mass Flow meter can be regards as non-moving parts, which will reduce the maintenance of flow meter, enhance the stability and lifetime.

Besides the mass flow measurement, the density and temperature and even consistency can also be picked up and output.

03 Technical parameters

Nominal diameter	DN3...DN200
Medium	Liquid or slurry or gas
Structure	Integral or remote
Wetted parts material	SS316L as default, can be customized
Housing material	SS304 as default, can be customized
Sensor shape	Mirco-bend or U-series
Power supply	18...36VDC and 85...265VAC
Signal O/P	Pulse and 4...20mA
Communication	Modbus or Hart
Nominal pressure	PN40 as default, other rating an be customized
Accuracy	±0.1%, ±0.15%, ±0.2%, ±0.5%
Repeatability	±0.050%, ±0.075%, ±0.1%
Medium temperature	-50 Deg C...+125 Deg C (+200 Deg C for remote)
Ambient temperature	-40 Deg C...+65 Deg C
Power consumption	Typical 7W, maximum 13W
Explosion-proof	Yes
Protection	IP67, IP68
Process connection	HG/T 20615-2009, customized

04 Dimension



Unit: mm

Model	Pressure	Size	A	M	I	D	H	C	F	Flange hole
M2/M3	150#	15	322	16	60.3	60	305	105	176	4
M6/M10	150#	15	461	16	60.3	90	365	171	196	4
M15	150#	15	488	16	60.3	90	386	189	176	4
M20	150#	25	558	16	79.4	110	416	214	176	4
M25	150#	25	588	16	79.4	110	447	239	176	4
M40	150#	40	588	16	98.4	125	492	247	176	4
M50	150#	50	845	19	120.7	150	498	276	176	4
M80	150#	80	1050	22	152.4	210	605	361	176	8
M100	150#	100	1190	18	190.5	230	677	420	176	8

05 Flow range

Model	Rated flow (kg/hour)	Extended flow (kg/hour)
M1	35	45
M2	100	120
M3	300	350
M6	1000	1500
M10	1800	2700
M15	3000	4500
M20	7000	10500
M25	18000	27000
M40	27000	40500
M50	60000	90000
M80	160000	240000
M100	360000	540000
M150	550000	825000
M200	1100000	1650000

06 Company profile



we are a professional manufacturer specializing in the

field of process control. Our product range includes intelligent flow meters like electromagnetic flow meter, turbine flow meter, coriolis mass flow meter, ultrasonic flow meter. And traditional mechanical water meters as well as smart metering devices such as NB-IoT meters, ultrasonic water meters and prepaid systems. With a strong focus on R&D and innovation, we serve clients across more than 140 countries and regions, including Europe, Southeast Asia, the Middle East and Africa. Committed to quality and global partnerships, we strive to provide efficient solutions for modern water management.









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