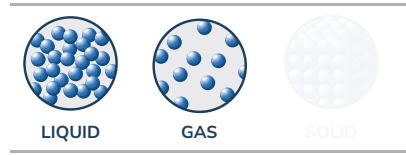


FCKD

Coriolis Mass Flowmeter



OVERVIEW

Operation

FCKD Series Mass Flowmeter (hereafter we call FCKD) is designed according to the Coriolis Principle. It can be widely used for the process detecting and custody transfer/fiscal unit in many industries such as petroleum, petroleum and chemical, chemical industry, pharmacy, paper making, food and energy, and so on. As a fairly advanced kind of flow measurement instrument, it has been paid attention by the circle of measurement and accepted by many customers home and abroad. Suitable for strong corrosive media. Ball valve circulation capacity, simple structure, convenient maintenance, with pneumatic or electric actuator composed of control valve.

Features

- Simple Installation
- High Accuracy
- Easy to implement in gas and fluid flow measurement
- High sensitivity
- Measures mass flow, density temperature and volume flow

Application

- Petroleum chemical industry
- Wine industry
- Food industry
- Pharmaceutical industry
- Mineral processing
- Oil&gas



OPERATING DATA

Ambient Temperature

-20...70°C

Medium Temperature

-60...200°C for compact type
-60...350°C for remote type

Accuracy

± 0,1% measuring value

Repeatability

± 0,05%
± 0,001g/cm³ for density

Basic Error

± 0,02 g/cm³ for density
± 1°C for temperature

Response Time

0,1...5 sec. (adjustable)

Humidity

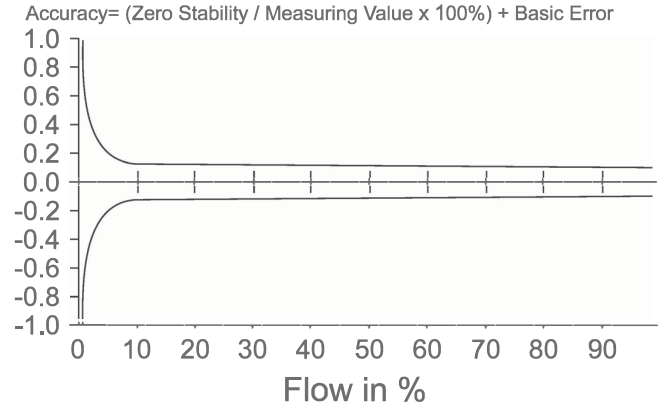
<90% RH

Protection

IP67/IP68 on request

Hazardous Area

Ex d(ib) II C T5 Gb



MATERIALS

Wetted Parts

AISI 316L
Hastelloy-C on request

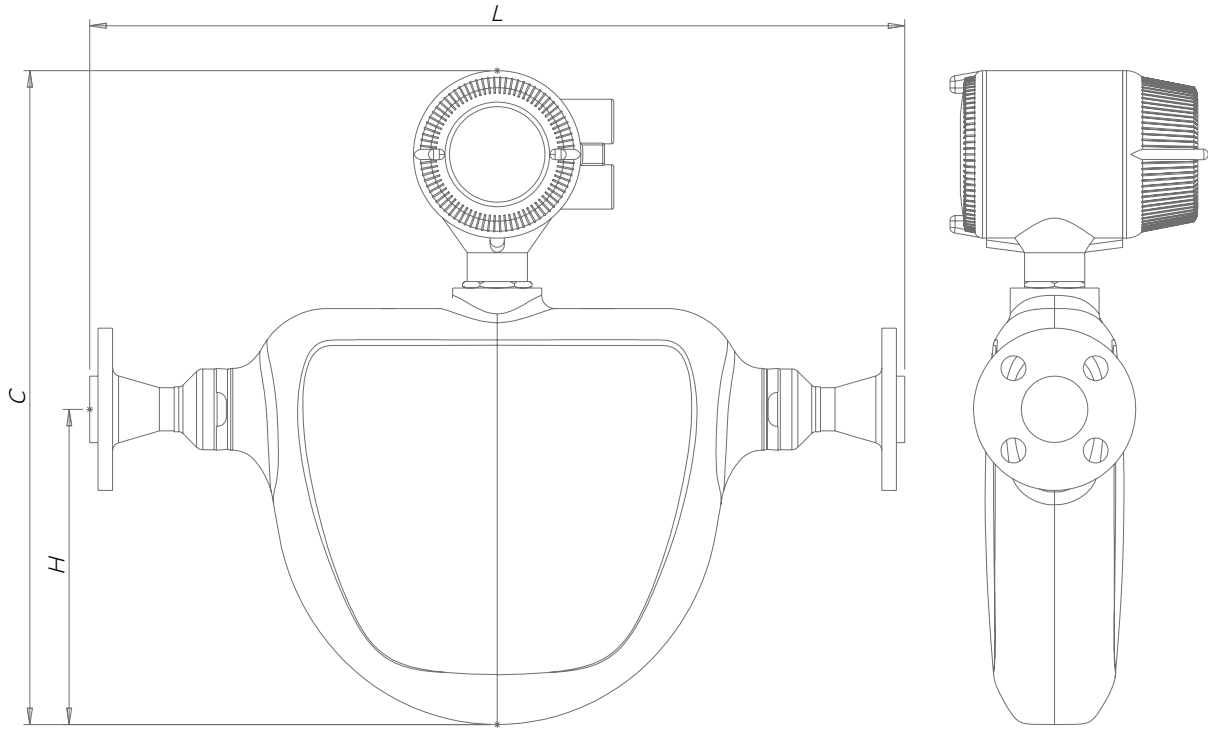
MEASURING RANGES

Density Range

0,2...2 g/cm³



TECHNICAL DRAWING AND DIMENSIONS



DN	L	L1	H	C
10	280	210	285	235
15	280	210	325	275
20	290	230	375	325
25	410	300	500	440
40	520	360	585	480
50	550	370	670	548
65	560	440	715	600
80	660	470	767	650
100	670	490	831	720
125	900	700	1110	930
250	890	670	1150	970



MEASURING RANGES

Bore Size	Range	Max. Working Pressure	Min. Connection Size
1 mm	0...4 kg/h	320 Bar	DN15
3 mm	0...40 kg/h		
6 mm	0...0,1 t/h	250 Bar	
8 mm	0...0,2 t/h	200 Bar	
10 mm	0...0,5 t/h	40 Bar	
15 mm	0...1 t/h		
20 mm	0...3 t/h		DN20
25 mm	0...10 t/h		DN25
40 mm	0...20 t/h		DN40
50 mm	0...30 t/h		DN50
65 mm	0...50 t/h		DN65
80 mm	0...100 t/h		20 Bar
100 mm	0...150 t/h	DN100	
125 mm	0...200 t/h	DN125	
150 mm	0...400 t/h	DN150	
200 mm	0...500 t/h	DN200	

*With weld joint connection only.



ELECTRICAL DATA

Analog Output

4-20 mA (lead resistance <500Ω),
pulse/frequency 10 kHz

Power Supply

24± 10% VDC

Communication

RS485 Modbus RTU
HART on request

ORDERING

Model	
FCKD	Coriolis Mass Flowmeter

Bore Size	
XXX	Please see "Measure range table"

Connection	
T	Thread (please specify NPT, G)
F	Flanged (please, specify DIN, ANSI, JIS)
W	Weld joint (for high pressure)
H	Sanitary collection DIN or ISO (up to DN50)

Converter	
C	Compact type
R	Remote type with 6m. cable

Communication	
R	RS485 MODBUS-RTU
H	HART

Wetted Parts	
L	AISI 316L
C	Hastelloy-C

Enclosure	
67	IP67
68	IP68

Hazardous Area	
N	None
Xd	Ex d(ib) II C T5 Gb

