

Coriolis Mass Flow Meter

BCM Series



Industry-leading performance in measuring liquid mass flow, volume flow, and density.
A unique design delivers unparalleled measurement sensitivity and stability.



BCM Product Datasheet

Introduction

Coriolis mass flow meters are the leading precision flow and density measurement solution offering the most accurate and repeatable mass measurement for liquids, or slurry. BCM meters offer the most accurate measurement available for virtually any process fluid, while exhibiting exceptionally low pressure drop.

Application

Low Flow Precision Measurement	Precision Measurement & Process Control	High Capacity Precision Measurement
Starting at 9.6kg/hr to 120kg/hr Flavoring Vials Chemical injection	Kg/min – tons/hr Truck loading Internal allocation Leak detection Produced fluids with chlorides	Up to 360 tons/hr Custody transfer Ship loading Rail car loading Pipeline measurement Marine bunkering Feed stock and fuel blending

Liquid Flow Rates

Model	Nominal Size (mm)	Flow rate (kg/hr)	Stability zero, kg/h (0.2%)
BCMFM-003	3	9.6~96	0.0144
BCMFM-006	6	54~540	0.081
BCMFM-008	8	96~960	0.144
BCMFM-010	10	150~1500	0.225
BCMFM-015	15	300~3000	0.45
BCMFM-020	20	600~6000	0.9
BCMFM-025	25	960~9600	1.44
BCMFM-032	32	1800~18 000	2.7
BCMFM-040	40	3000~30 000	4.5
BCMFM-050	50	4800~48 000	7.2
BCMFM-080	80	12000~120 000	18
BCMFM-100	100	192000~192 000	30
BCMFM-150	150	36000~360 000	36

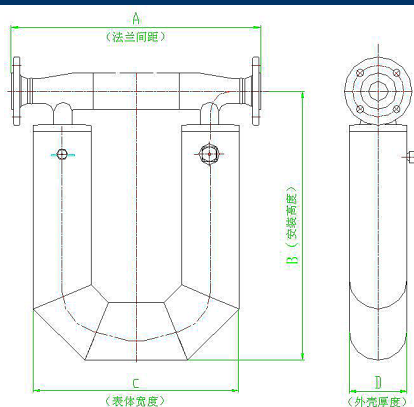
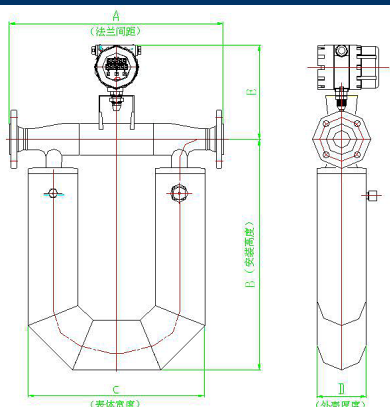
Sensor Specifications

Accuracy: $\pm 0.1 \sim 0.5\%$	Repeatability: $\pm 0.1 \sim 0.25\%$
Density measurement range: 0.3~3g/cm ³ ,	Accuracy: ± 0.002 g/cm ³
Operating temperature: -50~+200°C(standard), -200~+300°C	Ambient temperature: -20~+60°C or -40~+60°C
The measuring tube material: SS316L	The housing material: SS304
Nominal pressure: 4.0MPa (standard)	Ex-proof: Exd (ia) II C T6Gb

Transmitter Specifications

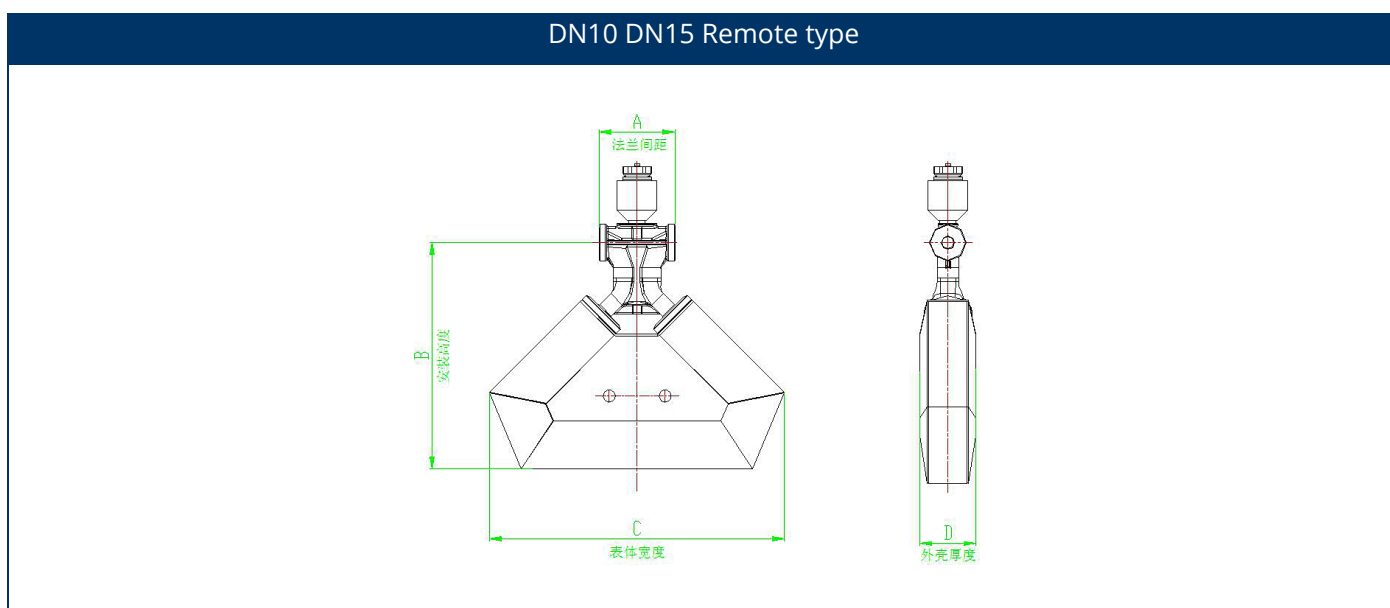
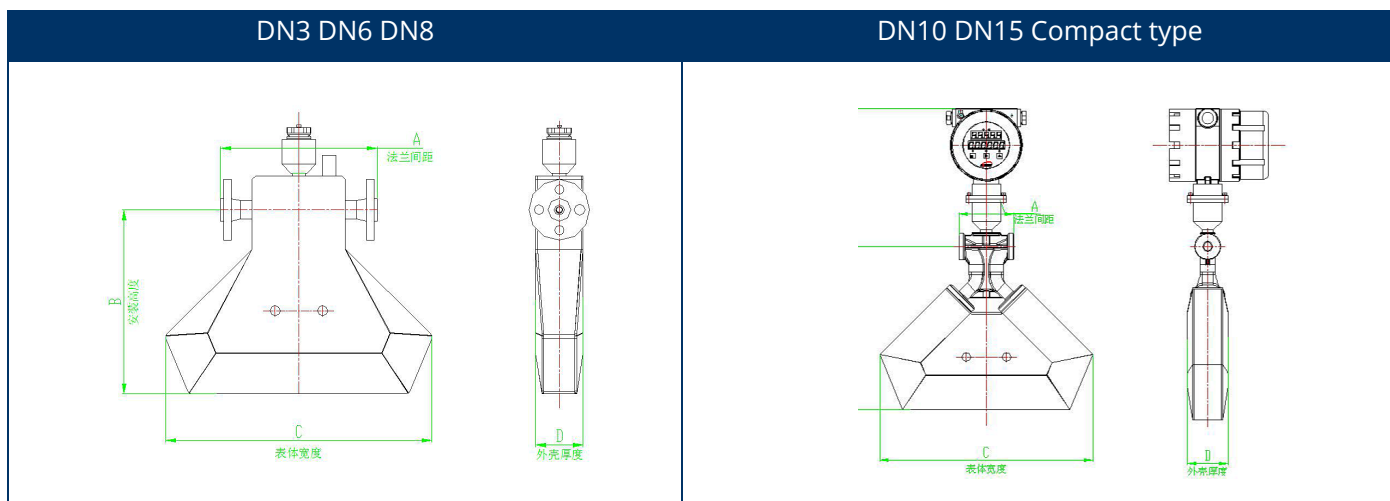
Content	QFT-521 LED	QFT-522 LCD
Picture		
Principle	Analog signal processing	Analog signal processing
Medium Temperature	-200~+300°C	-200~+300°C
Ambient Temperature	-40~60°C	-20~60°C
Display Info	Mass flow, Volume flow, Density	Mass flow, Volume flow, Density, Temperature
Display Mode	LED	LCD
Power Supply	24VDC/220VAC	24VDC/220VAC
Output signal	Pulse/4-20mA	Pulse/ 4-20mA
Communication	Modbus	Modbus/ Hart
Ex-proof	Ex d (ia) II C T6Gb	Ex d (ia) II C T6Gb

Dimensions

"U" type - Remote type	"U" type - Compact type
	

Size	A mm	B mm	C mm	D mm	E mm	N.W (only sensor) Kg
20	540	478	468	108	245	17
25	540	492	468	108	245	17.5
32	544	517	468	108	245	24
40	600	635	500	140	267	32
50	606	653	500	140	267	36
80	866	857	779	219	316	87.5
100	950	977	833	273	340	165

Triangle type



Size	A mm	B mm	C mm	D mm	E mm	N.W (only sensor) Kg
3	196	176	250	548	270	4.8
6	250	263	360	70.5	289	8.1
8	250	275	395	70.5	289	8.2
10	95	283	370	70.5	264	6.5
15	95	302	405	70.5	264	6.5

Note: The size of A will vary depending on the process connection type.

Selection Code

BCM	1	2	3	4	5	6	7	8	9	10	11	Description
Diameter	003											DN3
	006											DN6
	008											DN8
	010											DN10
	015											DN15
	020											DN20
	025											DN25
	032											DN32
	040											DN40
	050											DN50
	080											DN80
	100											DN100
	150											DN150
	Structure											C
R		Remote type										
Medium temperature		N										-50...+200℃
		H										-50...+300℃
		L										-200...+200℃
Rated pressure			1									1.6MPa
			2									2.0MPa
			4									4.0MPa
			Z									Customized
Power supply			D									DC24V
			A									AC220V
			Z									22-245V
Output signal			R									Pulse/4-20mA/RS485
			H									Pulse/4-20mA/HART
Cable entry			M									M20x1.5
			N									1/2"NPT
			Z									Customized
Accuracy			1									0.1%
			2									0.15%
			3									0.2%
			4									0.5%
Connection			F									Flange
			T									Thread
			P									Tri-clamp
			C									Pipe fittings
			Z									Customized
Explosion			E									Exd(ia)IICT6Gb
			N									Safe environment
Others											Z	Customized

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