CAT.No.CBN014E-5

Liquid

Inexpensive Microflow Coriolis Flowmeters

Easy to use...Exceeding your expectations of Coriolis flowmeters!

[Mass flow measurement]

[Measurement of multiple kinds of liquid at laboratories or research facilities]

[Medicinal solution, solvent process]

[Slurry liquid, mixture process]

[Paint, spray, additive applications]



We add value to the flow



OVAL Corporation

GENERAL SPECIFICATIONS

	Item	Description							
Мо	del	CR002	CR004						
(0	Wetted parts	SUS316L and SCS16A (*1)							
ials	Base	ADC12	SUS304						
Materials	Housing and cover	ADC12							
Σ	Display shield	Polycarbonate							
Pro	cess connection	Rc 1/8							
Ace	ceptable fluid	Liquid (De	nsity range: 0.3 to	2.0 g/mL)					
Ope	rating temperature range	-10 to +60°C (Free of dew condensation)							
Мах	c. operating pressure	2MPa							
Flo	w directions	Forward flow only							
Ρο	wer supply	20 to 30VDC							
Ροι	wer consumption	Max.10W							
Fur	mished cable	AWG24×7 conductor, φ6.8×3m							
Dust	proof, waterproof construction	IP66							
Ins	tallation	 Horizontal installation (clamp not required) Vertical installation (Bolthole provided) 							
Dis	play	Backlit dot matrix: 8 digits							
Var	iables displayed	Instant mass flow, mass flow total, temperature							
We	ight	Approx. 3kg	Approx. 3kg	Approx. 6.5kg					
Con	nmunication interface	Bell 202 (using the HART protocol)							
Pul	se output (*2)	Mass flow total open collector output (30V, 50mADC max.) FS: 0.1 to 10000Hz selectable •CR002:0.01g/P at 125Hz •CR003:0.01g/P at 500Hz •CR004:0.1g/P at 450Hz							
Ana	alog output (*2)	4 to 20mADC Max. load 600Ω Instant mass flowrate Damping: 1 sec. (std.) •CR002:0 to 75g/min •CR003:0 to 300g/min •CR004:0 to 2700g/min							

GENERAL PERFORMANCE

	Item	Description						
Mo	lel	CR002	CR003	CR004				
	Max. Flow rate g/min	75	300	2700				
(p	Min. Analog range g/min	5	20	180				
(Liquid)	Cutoff g/min (*1)	1.5	6	54				
e (l	Factory calibration accuracy	±0.1% of F.SF. (Below 33% of flow rate)						
rate	ractory calibration accuracy	±0.3% RD.(33% to 100% of flow rate)						
Flow	Repeatability	±0.07% of F.SF. (Below 33% of flow rate)						
ш	nepeatability	±0.2% RD.(33% to 100% of flow rate)						
	Analog accuracy	Accuracy ±0.1% of full scale						

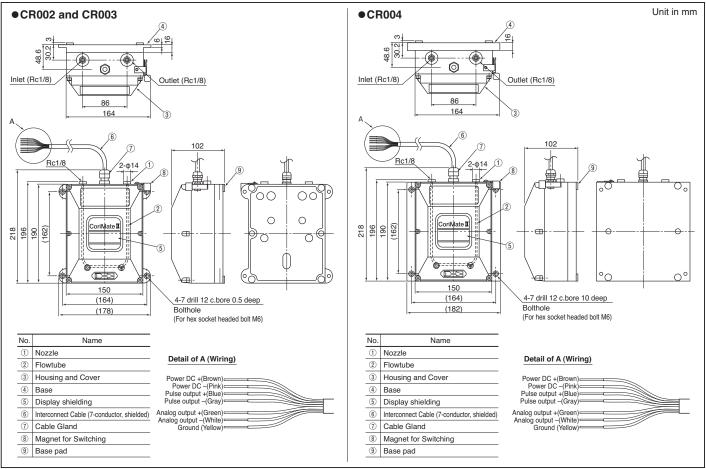
(*1) : The flow rate (output signal and indication level) becomes zero at cutoff level or lower. (Setting change by the customer is available.)

■ PRODUCT CODE EXPLANATION

Item		Product Code														Description	
nem	1	2	3	4	(5)	6	—	1	8	-	9	10	1	(12)	(13)	Description	
Model	С	R														CoriMate	
			0	0	2											0.7mm, Flow range (g/min): 2.5 to 75, Rc 1/8	
Nominal size		0	0	3											1.5mm, Flow range (g/min): 10 to 300, Rc 1/8		
			0	0	4											3mm, Flow range (g/min): 90 to 2700, Rc 1/8	
Structural category D -								CoriMate II									
Material SS-										SUS316L							
Process connection 2											Screw connection						
Connection rule 0												Always "0"					
Pressure category 0											Always "0"						
Trans	Transmitter construction N												Non-explosionproof, integral type transmitter				
Version code										В							

(*1): Corrosion resistance of nickel brazing used in wetted parts is equivalent to SUS314. (*2): The pulse output at the time of the shipment and analog output are standard setting. (Setting change possible)

■OUTLINE DIMENSIONS



The specification as of April, 2023 is stated in this catalog. Specifications and design are subject to change without notice



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