Solenoid Actuator Control Valve (Liquid)

CV-1000 Series

■ Outlines

- CV-1000 Series: Solenoid actuator-equipped control valve for liquid use
- Efficient liquid control when used in combination with LM-3000L Series

■ Features

- High-speed and high efficiency solenoid actuator
- Long-term leak tightness ensured using metal seal
- By using metal case and various filters, stable operation can be acheived through reduction of radio frequency noises and electromagnetic field interferences

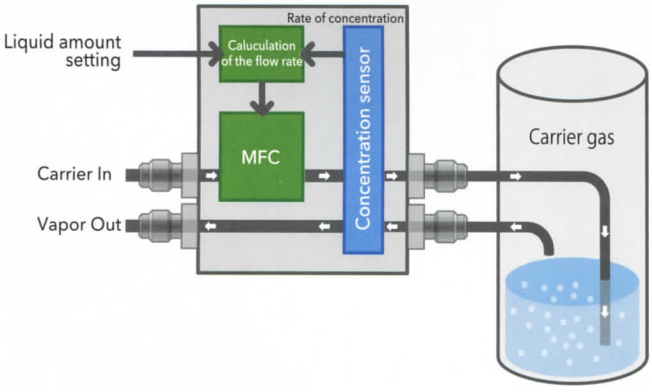
RoHS

Model		CV-1100A	CV-1204
Flow rate	C_2H_5OH conversion	0.1 ~ 1.0g/min	40g/min
	H_2O conversion	0.1 ~ 0.2g/min	-
Flow rate control range *		5 ~ 100% F.S.	
Valve operation mode		Normally closed	
Accuracy *		±1.0% F.S.	
Linearity *		±0.5% F.S.	
Repeatability *		±0.5% F.S.	
Response time *		6 sec	
Analog flow rate setting signal *		0 ~ 5VDC	
Analog flow rate output signal *		0 ~ 5VDC	
Operating differential pressure		50 ~ 300kPa	
Withstand pressure		1MPa(G)	
Operating temperature		0 ~ 50°C 0 ~ 80%RH	5 ~ 50°C 0 ~ 80%RH
Leak integrity		1×10^{-11} Pa · m^3 / sec He	
Wetted materials		SUS316L, PTFE	
Seal materials		Au	
Power supply required		+15VDC±3% 100mA, -15VDC±3% 200mA	
Mounting position		Free	
Control valve actuator		Solenoid actuator	
Weight		700g	

* When use in combination with LM-3000L series

Vapor Controller

LVC-1000



■ Outlines

- LVC-1000: Automatic bubbling gas concentration adjustments by monitoring both the flow rates and concentrations of carrier gas and bubbling gas

■ Features

- Eliminate the issue of unstability during bubbling process through automatic concentration control despite factors such as temperature, pressure, and liquid surface level
- Applicable to the use of various liquids, such as $SiCl_4$, $POCl_3$, and BBr_3

RoHS

Model		LVC-1000
Carrier gas flow rate		50 ~ 10,000SCCM
Flow rate range (liquid)		12 ~ 40,000mg
Flow rate control range		5 ~ 100% F.S.
Valve operation mode		Normally open
Accuracy		±4.0% F.S.
Linearity		±4.0% F.S.
Repeatability		±0.5% F.S.
Response time		10 sec
Analog flow rate setting signal		0.5 ~ 5VDC
Analog flow rate output signal	Liquid	0.5 ~ 5VDC
	Carrier gas	0.25 ~ 5VDC
	Ratio	1 ~ 5VDC
Operating differential pressure		60 ~ 300kPa
Withstand pressure		400kPa
Operating temperature		15 ~ 35°C
Leak integrity		2×10^{-8}atm · scc / sec He
Wetted materials		SUS316L
Seal materials		Viton®
Power supply requirement		±15VDC 15W Max
Mounting position		Free
Analog connector		Elco 8016 20pin
Control valve actuator		Thermal valve
Weight		3kg