

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

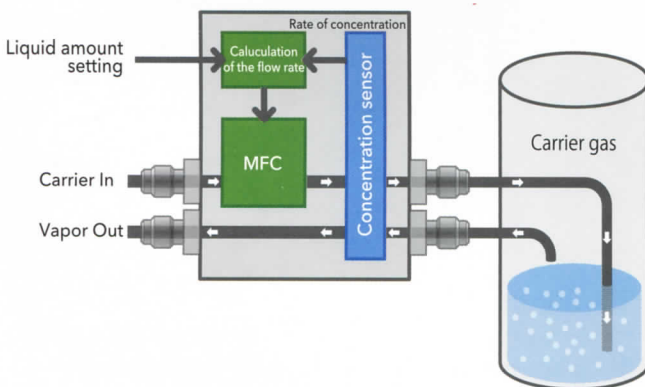
- High-speed and high efficiency solenoid actuator
- Long-term leak tightness ensured using metal seal
- By using metal case and various filters, stable operation can be achieved through reduction of radio frequency noises and electromagnetic field interferences

RoHS

Model	CV-1100A	CV-1204
Flow rate	C ₂ H ₅ OH conversion 0.1 ~ 1.0g/min H ₂ O conversion 0.1 ~ 0.2g/min	40g/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 SiCl₄, POCl₃, and BBr₃

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	