

Pressure Controller PC-3102L



■ Outlines

- PC-3102L: Pressure sensor and piezoelectric actuator-equipped, high performance pressure controller

■ Features

- Highly functional upon installation of microprocessor
- Diaphragm valve with small dead volume
- High-speed and high efficiency piezoelectric 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	PC-3102L
Flow rate in Nitrogen	5SLM
Operating differential pressure	-100 ~ 200kPa (G)
Valve operation mode	Normally closed
Accuracy	±1.0% F.S.
Repeatability	±0.3% F.S.
Response time	1 sec
Analog flow rate setting signal	0 ~ 5VDC
Analog flow rate output signal	0 ~ 5VDC
Withstand pressure	1MPa(G)
Operating temperature	5 ~ 50°C 0 ~ 80% RH
Leak integrity	$1 \times 10^{-11} \text{Pa} \cdot \text{m}^3 / \text{sec He}$
Material exposed to gas	SUS316L, Hastelloy, C-22, PTFE
Seal materials	Au
Power supply requirement	+15VDC±3% 100mA, -15VDC±3% 50mA
Mounting position	Free
Analog connector	Dsub 9pin
Digital interface	RJ45/RS-485
Control valve actuator	Piezoelectric actuator
Weight	1.0kg

Piezoelectric Actuator Control Valve CV-2000 Series



■ Outlines

- CV-2000 Series: Pressure-control, high-speed-reaction valve that controls flow rates and concentration of gas and liquid
- Manageable with remotely controllable signal input

■ Features

- High-speed and high efficiency piezoelectric 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
- Applicable to both the open and closed loop systems

Model	CV-2102	CV-2202
Flow rate in Nitrogen	5SLM	10SLM
Flow rate control range	2 ~ 100% F.S.	
Valve operation mode	Normally open, Normally closed	
Response time	0.5 sec	
Valve aperture setting	0 ~ 5VDC	
Operating differential pressure	50 ~ 300kPa	
Withstand pressure	1MPa(G)	
Operating temperature	0 ~ 50°C 0 ~ 80% RH	
Leak integrity	$1 \times 10^{-11} \text{Pa} \cdot \text{m}^3 / \text{sec He}$	
Materials exposed to gas	SUS316L, PCTFE	
Seal materials	Au	
Power supply required	+15VDC±3% 50mA, -15VDC±3% 50mA	
Mounting position	Free	
Control valve actuator	Piezoelectric actuator	
Weight	700g	