

## GV-970MC

### Low Pressure Micro Spraying Valve

The GV-970MC precision micro spray valve is specifically engineered to deliver a consistent spray volume of as little as 1 nanoliter, ensuring uniformity in the spraying process.

Achieving stable spraying within a diameter range of 3-20mm, the GV-970MC ultra micro spray valve employs micro pressure and micro air. It utilizes a precision standard needle measuring 0.33-0.10mm to achieve a spray size below 60 on the standard nozzle scale.

### FEATURES

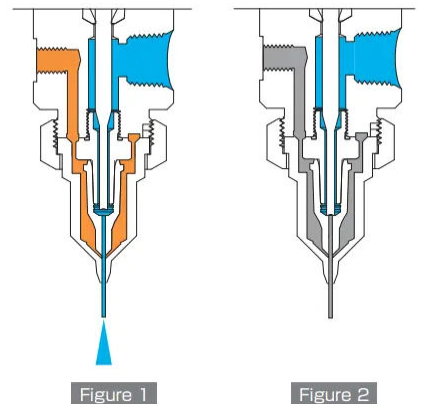
- Consistent and precise coating
- No overspray or misting
- Customizable spray quality
- Gentle and controlled spraying

### SPECIFICATIONS

GV-970MC	Value
Dimension	φ26.9mm (Fluid body) × 130mm length
Net Weight	308g
Air cylinder body	SUS303
Piston needle	SUS303
Needle packing	SUS303, teflon
Fluid body	SUS303
Air cap	SUS303
Fluid inlet fitting	SUS303
Tip adapter	SUS303, teflon
Fluid inlet port	1/8NPT female
Mounting hole	M6 female
Valve operating air pressure	0.4 ~ 0.62 Mpa
Max. nozzle air pressure	0.2 MPa (Standard)
Max. fluid pressure	0.7MPa
Free flow orifice (special)	GP needle tips 23ga (IDφ0.33mm) ~ 33ga (IDφ0.11mm)



### VALVE OPERATING



Input air pressure retracts the needle from the nozzle seat, allowing fluid to flow. At the same time, nozzle air flows around the nozzle and atomizes the fluid into fine droplets. (Figure 1) Once the cycle is completed, the spring returns the piston needle back to its position to shut off the fluid. (Figure 2).

## GC-850SR

### Spraying Valve Controller

The GC-850SR Spraying Valve Controller is a versatile controller designed to manage a wide range of pneumatic valves, including diaphragm valves, firing pin valves, piston valves, spray valves, screw valves, and encoder motor screw valves.



### FEATURES

- **Compatibility:** Suitable for controlling various types of pneumatic valves, offering flexibility across different systems.
- **Precise Control:** The controller features a digital display for both timer and pressure, allowing for precise adjustments to ensure accurate dispensing.
- **Multiple Dispensing Modes:** The GC-850SR supports four dispensing modes—timing, moving, teaching, and interrupting—catering to diverse operational requirements.
- **Program Storage:** It can store up to 10 different dispensing programs, providing the ability to quickly adapt to varying dispensing needs and quantities.
- **Automation & Control:** Equipped with an RS232 port and a foot switch, it enables automatic dispensing, enhancing efficiency in production processes.
- **Safety & Monitoring:** The controller comes with an adjustable low-pressure alarm function, ensuring safe and reliable operations.
- **Long-Term Support:** Backed by a 2-year warranty, providing assurance in performance and durability.

### SPECIFICATIONS

GC-850SR	Value
Dimension	L254 x W191 x H102 mm
Cycle Time	900 cycles/min
Timing range	0.008 ~ 60.000 s
Timing repeatability	0.001%
Air input	Max. 100 Psi (6.9 bar)
Air output	1 ~ 100 Psi (0.7 ~ 6.9 bar)