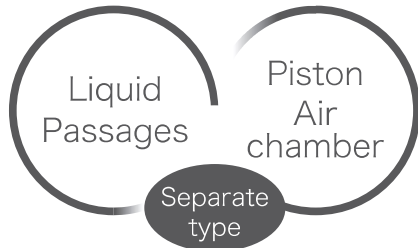




Lumina®

ST SERIES



Liquid passages and piston air chamber are separated from each other.

Multiple packing structure prevents liquid from penetrating the piston chamber.

New liquid volume adjuster pitch 0.5 mm for precise control and rigid lock.

With liquid circulation for liquids that include solids and liquids that are easily separated. Features a special fine-pointed needle to improve liquid flow.

With corrosive- and chemical-resistant perfluoro O-rings (special fluorine-containing rubber).

A solenoid valve on each of the 2 air lines prevents overspraying of the large particles produced at the beginning and end of spraying.

Tube fittings not included.


Atomization is same as ST-6.



Cross-Section Drawing




ST-10 Fan



Standard model of the ST-10. Used for many purposes such as coating or painting. To switch to round pattern, close the pattern adjuster.


*Particle size data collected at 30 mL/min.

Spray Pattern

Fan and Round 

Model	Nozzle Size (mm)	Flow Rate (mL/min)	Pattern Width (mm)	Particle Size (SMD μm)	Air Consumption (L/min)	Mass (g)
ST-10-0.5X	ϕ 0.5	0- 50	240	26	48	365
ST-10-1.0X	ϕ 1.0	0-180	280	19	56	
ST-10-1.3X	ϕ 1.3	0-280	380	19	69	
ST-10-2.0X	ϕ 2.0	0-480	400	21	91	


ST-10R Round



Round pattern. Suitable for small areas or markings.


*Particle size data collected at 30 mL/min.

Spray Pattern

Round 

Model	Nozzle Size (mm)	Flow Rate (mL/min)	Pattern Width (mm)	Particle Size (SMD μm)	Air Consumption (L/min)	Mass (g)
ST-10R-0.5X	ϕ 0.5	0- 50	ϕ 80	16	29	330
ST-10R-1.0X	ϕ 1.0	0-200	ϕ 100	16	38	
ST-10R-1.3X	ϕ 1.3	0-300	ϕ 130	16	42	
ST-10R-2.0X	ϕ 2.0	0-550	ϕ 140	16	62	


ST-10SK Small Round



Used for spraying tiny dots or narrow lines.

*Particle size data collected at 10 mL/min.


Spray Pattern

Small Round 

Model	Nozzle Size (mm)	Flow Rate (mL/min)	Pattern Width (mm)	Particle Size (SMD μm)	Air Consumption (L/min)	Mass (g)
ST-10SK-0.5X	ϕ 0.5	0- 45	* ϕ 2-10	13	14	335
ST-10SK-1.0X	ϕ 1.0	0-100	* ϕ 2-10	12	34	


* at a distance of 5 to 20 mm. Flow rate 1.5 mL/min

ST-10RW Wide Round




Offers a round pattern wider than ST-10R. A spiral stream enables effective application on concave surfaces. It reduces dirt and clogging of caps.

Spray Pattern

Wide Round 

Model	Nozzle Size (mm)	Flow Rate (mL/min)	Pattern Width (mm)	Particle Size (SMD μm)	Air Consumption (L/min)	Mass (g)
ST-10RW-0.5X	ϕ 0.5	0- 86	ϕ 100	16	54	330
ST-10RW-1.0X	ϕ 1.0	0-240	ϕ 130	16	70	
ST-10RW-1.3X	ϕ 1.3	0-450	ϕ 160	17	82	
ST-10RW-2.0X	ϕ 2.0	0-650	ϕ 170	17	88	


ST-10W Wide Fan



Offers a fan pattern wider than ST-10. 3 air inlets.


*Particle size data collected at 0.1 MPa atomizing air, and 0.25 MPa pattern air. Flow rate: 30 mL/min.

Spray Pattern

Wide Fan 

Model	Nozzle Size (mm)	Flow Rate (mL/min)	Pattern Width (mm)	Particle Size (SMD μm)	Air Consumption (L/min)	Mass (g)
ST-10W-0.5X	ϕ 0.5	0- 60	300	13	93	355
ST-10W-1.0X	ϕ 1.0	0-200	340	12	105	
ST-10W-1.3X	ϕ 1.3	0-320	400	12	147	


G2 Liquid Adjuster (option)



Designed so that even when fully opened the adjuster cannot fall off. The application of torque prevents the setting from deviating.

Please see p16 for details.

Micrometer Liquid Adjuster (option)



With a combination of 50 circular graduations per rotation, and horizontal graduations, liquid volume can be grasped at a glance. This enables highly precise adjustment.