



Fine atomizing high-viscosity liquid spray
MMA Mini Atomizing Nozzle



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Features

- Fine droplet.
- Capable of atomizing at micro flow rates.
- Large diameter of liquid orifice minimizes clogging, which is easy for cleaning.
- Applicable for high viscosity liquid.
- PEEK which is excellent in chemical resistance is adopted for MMA10-PEEK.



Material

Principal parts: SUS316L Stainless steel,
PEEK (Model No. MMA10-PEEK)

Applications

- Spraying: sterilization/deodorant liquid, mold release agent, lubricant, etc.
- Humidity regulation: manufacturing paper products, electronics components, etc.
- Precision cleaning: wafers glass substrates, automotive parts, etc.
- Coating: chemical liquid, oils, sauces, etc.



Specifications

Model No.	Liquid orifice diameter [mm]	Air flow rate (Air pressure = 0.3 MPa) [L/min (nor)]	Water flow rate for proper atomization [mL/min]	Applicable tubing/ fitting size	Operating temperature range [°C]	Weight [g]	Quick delivery
MMA10-PEEK	1.1	10	1 to 20	φ4	-5 to 60	26	-
MMA10	1.1	10	1 to 20	φ4	-5 to 60	26	○
MMA30	1.5	30	3 to 60	φ4	-5 to 60	26	○
MMA50	1.7	50	5 to 100	φ4	-5 to 60	26	○
MMA100	2.4	100	20 to 200	Rc1/8	-5 to 60	55	○
MMA200	2.8	200	50 to 500	Rc1/8	-5 to 60	55	○

A separate device for flow control, such as a flow control valve, is required with MMA nozzles.

Please use Everloy's ON/OFF Valve with Flow Control or a commercially available flow control valve (as described under "How to Control Flow").

(Contact us about usage conditions when atomizing high-viscosity liquids.)

Shapes and dimensions

MMA10-PEEK	MMA10, 30, 50	MMA100, 200

Performance data

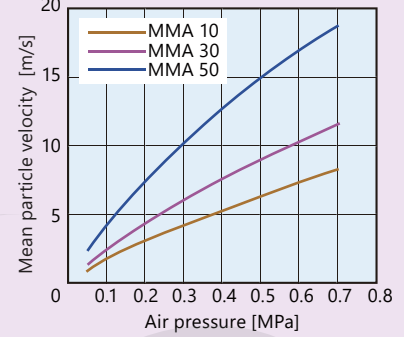
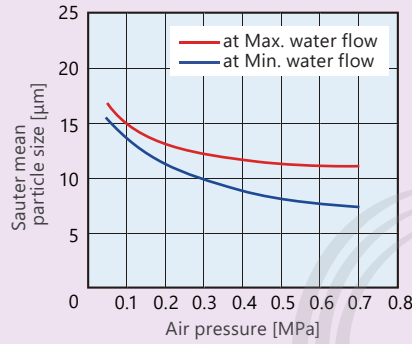
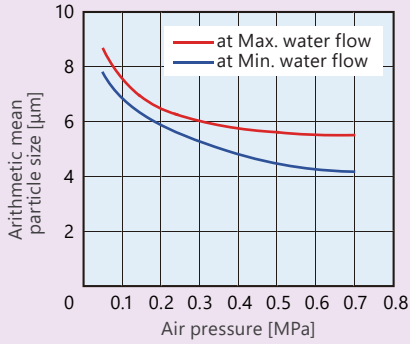
1. Particle size and velocity characteristics

Arithmetic mean particle size characteristics

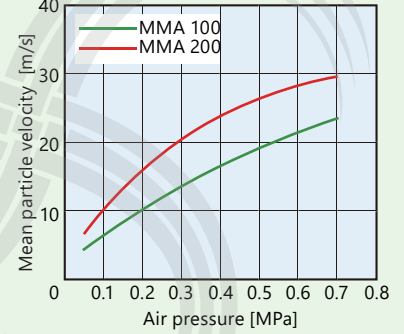
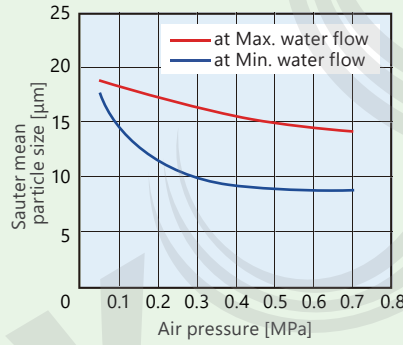
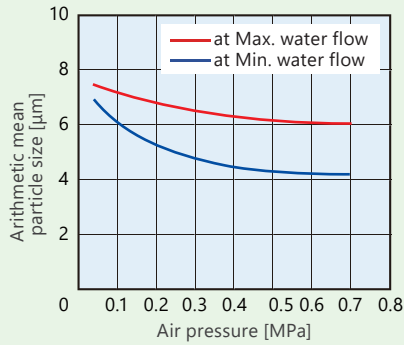
Sauter mean particle size characteristics

Particle velocity characteristics

MMA 10, 30, 50



MMA 100, 200



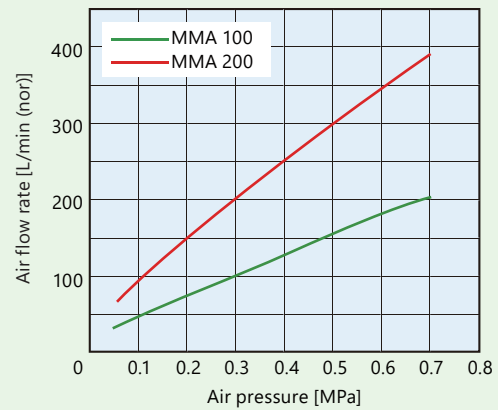
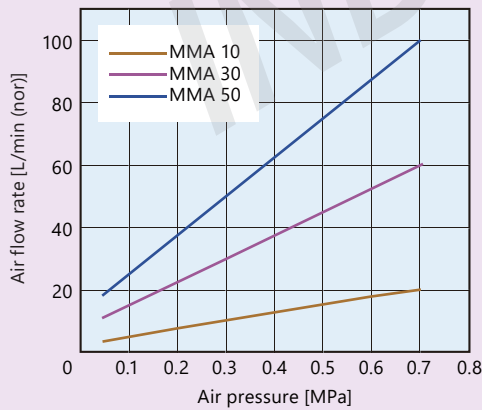
Measurement conditions

Spray distance: 300 mm
 Measuring position: Center of spray
 Water flow rate: Max./Min. water flow rate for proper atomization (Ref. Specifications) per model number

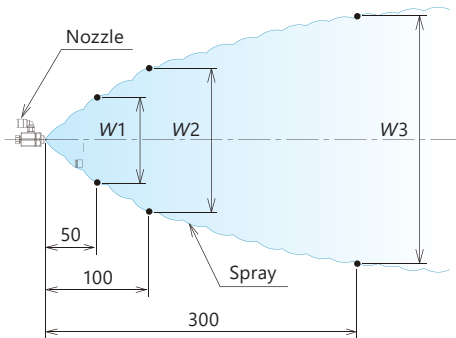
Measurement conditions

Spray distance: 300 mm
 Measuring position: Center of spray

2. Air flow rate characteristics



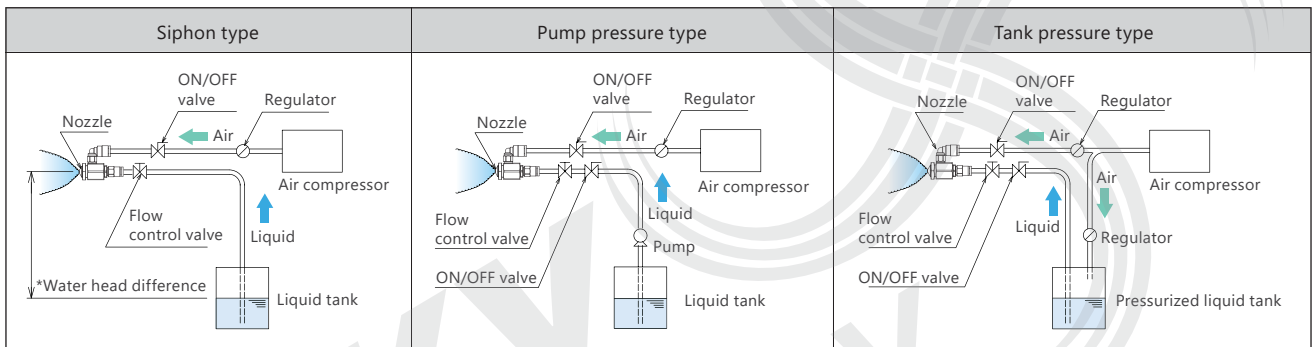
3. Spray width at minimum water flow rate



Model No.	Spray width [mm]		
	W1	W2	W3
MMA10			
MMA30	40 to 50	55 to 70	110 to 150
MMA50			
MMA100	35 to 45	55 to 70	130 to 150
MMA200			

Measurement condition
 Air pressure: 0.3 MPa
 Amount of water for atomization: Min. amount of water for proper atomization

Typical use example



*Make sure the water head difference is no more than 1000 mm.

Check the below link or scan here for more detail or other nozzles.

<https://www.everloy-spray-nozzles.com/en/>



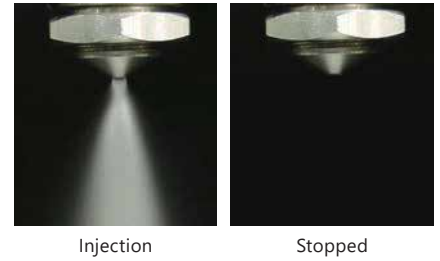
ON/OFF Valve with Flow Control (for MMA10, 30, and 50)

Features

- In controls ON/OFF of spray by air pressure.
- Fine adjustment of spray flow rate is possible.

Material

Principal parts: SUS316L Stainless steel

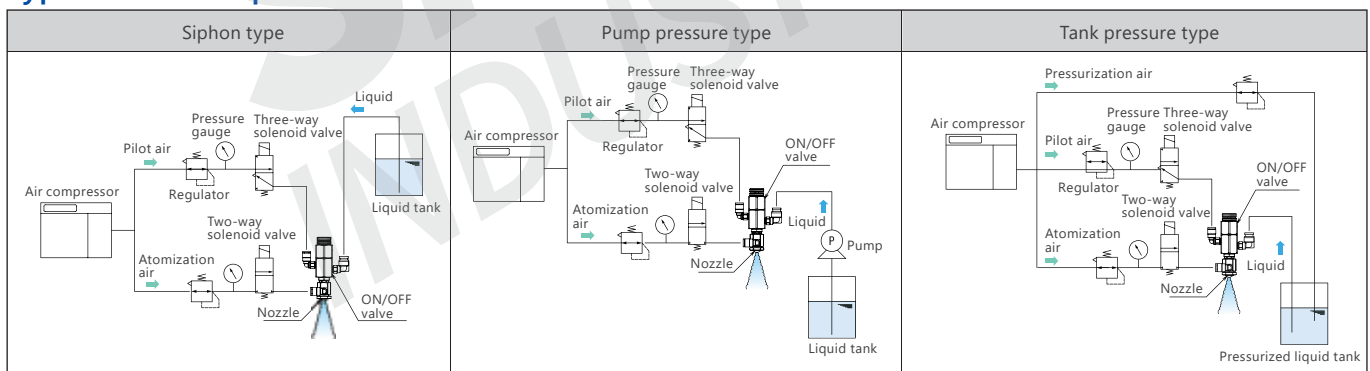


<p>Simple flow rate control type (compact MOV model)</p>	<p>MMA</p>	<p>MOV</p>	<p>MMA + MOV</p>
	<p>MMA</p>	<p>MOV</p>	<p>MMA + MOV</p>

Basic specifications

Model No.	Operating air pressure	Liquid volume adjustment range	Liquid supply pressure	Inlet connection (Pilot air)	Inlet connection (Liquid)	Material (Principal parts)	Weight (incl. MMA nozzle)
MOV	0.4 MPa min.	0.5 to 100 mL/min	0.1 MPa max.	Tube fittings: $\phi 4$ mm	Tube fittings: $\phi 6$ mm	316L SS	100 g (123 g)
MOV-MH							155 g (178 g)

Typical use example





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