

## Mist Header

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### ► Features

- Remarkable performance in removing droplets.
  - Uniform flow and impact force distributions.
  - Uncluttered piping and space-saving design.
  - Lightweight design for long lengths in excess of 2 m.
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### ► Applications

- Mist washing, deodorization, humidity conditioning, coating, sterilization, surface treatment, cooling, application of chemicals, etc.
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### ► Materials

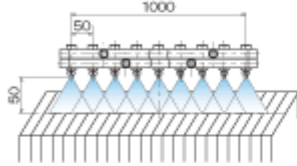
- Header: stainless steel (standard material: SUS304)
- Nozzle: stainless steel (standard material: SUS303)

## Performance Data

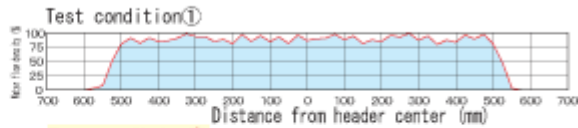
### Flow distribution graphs

Nozzle model number

KSNMS05243-A19-W10-21 0.6 ℓ/min (single nozzle) with an air-water volume ratio of 150



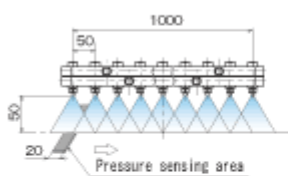
Test condition	Air pressure (MPa)	Water pressure (MPa)	Air flow rate (m <sup>3</sup> /h (Nor.))	Water flow rate (ℓ/min)	Air-water volume ratio
①	0.170	0.235	75.6	12.6	100
②	0.275	0.300	113.4	12.6	150
③	0.380	0.360	151.2	12.6	200



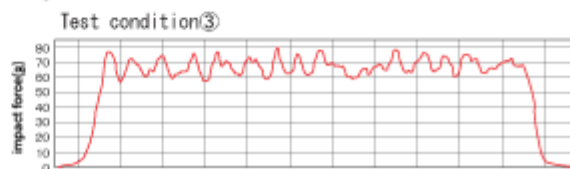
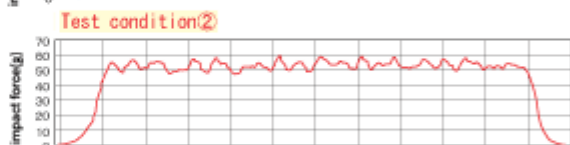
### Impact force distribution graphs

Nozzle model number

KSNMS05243-A19-W10-21 0.6 ℓ/min (single nozzle) with an air-water volume ratio of 150



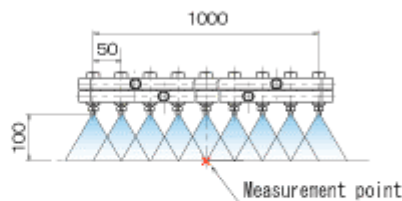
Test condition	Air pressure (MPa)	Water pressure (MPa)	Air flow rate (m <sup>3</sup> /h (Nor.))	Water flow rate (ℓ/min)	Air-water volume ratio
①	0.170	0.235	75.6	12.6	100
②	0.275	0.300	113.4	12.6	150
③	0.380	0.360	151.2	12.6	200



### Measurement of particle size and velocity

Nozzle model number

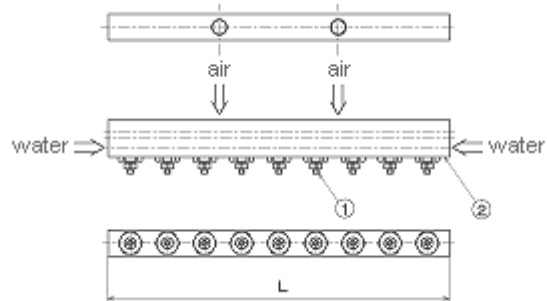
KSNMS05243-A19-W10-21 0.6 ℓ/min (single nozzle) with an air-water volume ratio of 150



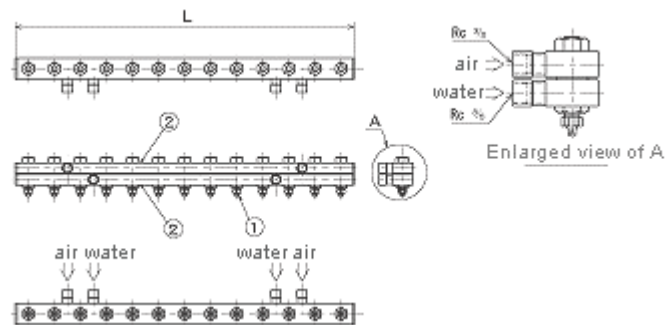
Test condition	Air pressure (MPa)	Water pressure (MPa)	Air flow rate (m <sup>3</sup> /h (Nor.))	Water flow rate (ℓ/min)	Air-water volume ratio	Mean particle size, SMD (μm)	Mean velocity (m/s)
①	0.170	0.235	75.6	12.6	100	30.7	22.2
②	0.275	0.300	113.4	12.6	150	30.3	26.7
③	0.380	0.360	151.2	12.6	200	29.8	31.6

## Shapes and dimensions

### KSMMS block type



### KSMMS WP type



No.	Part name
1	Nozzle
2	Header