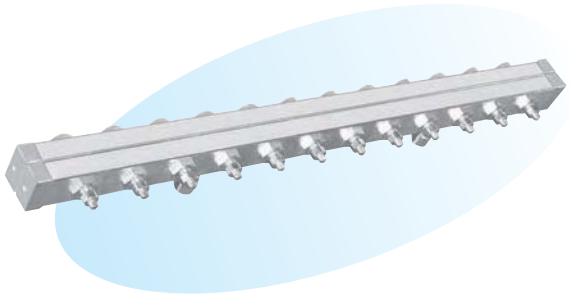
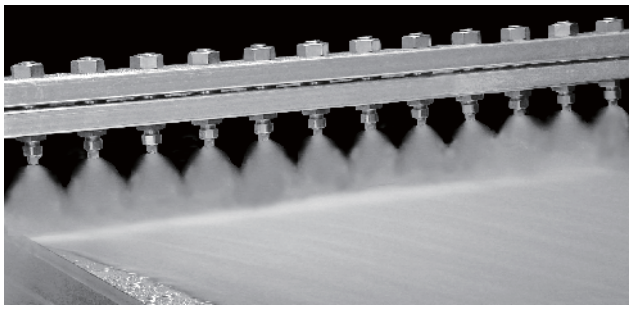
Mist Header





Features

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

Applications

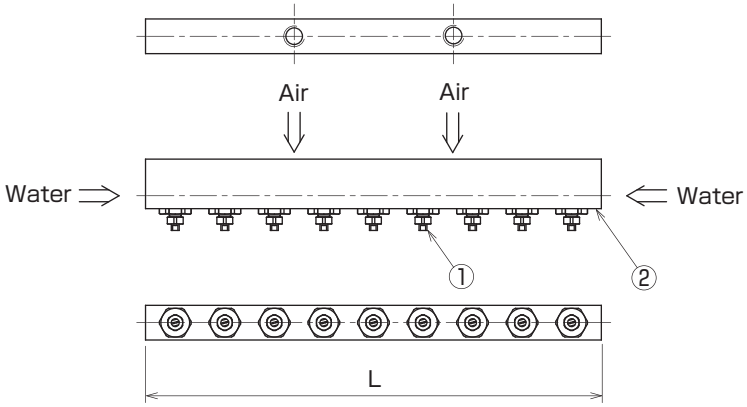
- Mist washing, deodorization, humidity conditioning, coating, sterilization, surface treatment, cooling, application of chemicals, etc.

Materials

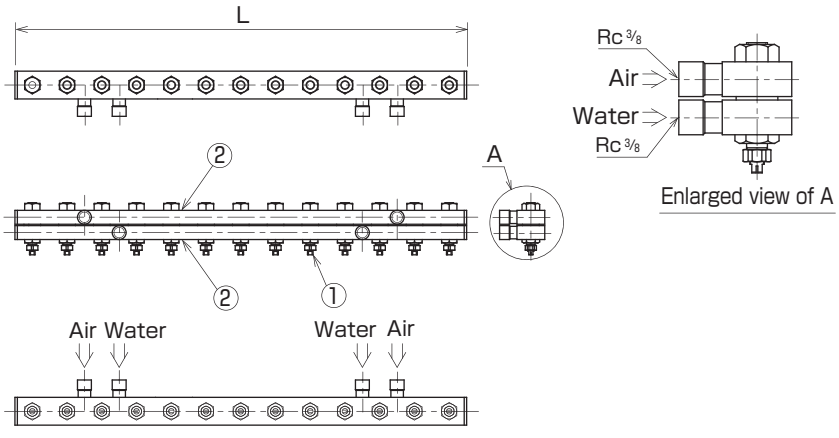
- Header: stainless steel (standard material: SUS304)
- Nozzle : stainless steel (standard material: SUS303)

Shapes and dimensions

● KSMMS block type



● KSMMS WP type



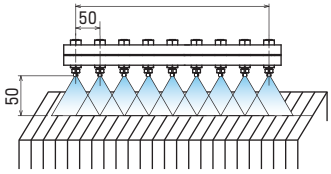
No.	Part name
①	Nozzle
②	Header

NPT thread is also available.

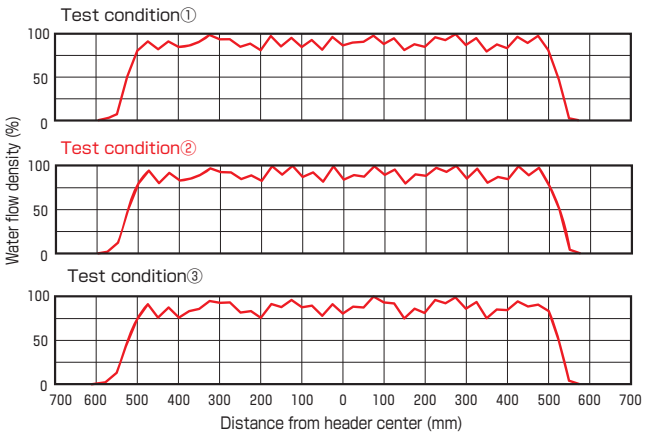
●Performance data

Flow distribution graphs

Nozzle model number　KSMMS 05243-A19-W10-21 0.6L/min (single nozzle) with an air-water volume ratio of 150

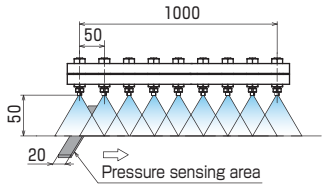


Test condition	Air pressure (MPa)	Water pressure (MPa)	Air flow rate (m³/h(nor))	Water flow rate (L/min)	Air-water volume ratio
①	0.170	0.235	75.6	12.6	100
②	0.275	0.300	113.4	12.6	150
③	0.380	0.360	151.2	12.6	200

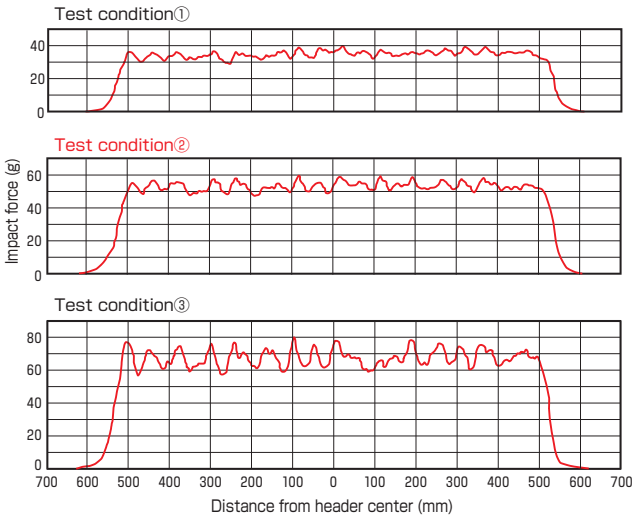


Impact force distribution graphs

Nozzle model number　KSMMS05243-A19-W10-21 0.6L/min (single nozzle) with an air-water volume ratio of 150

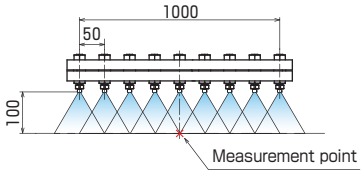


Test condition	Air pressure (MPa)	Water pressure (MPa)	Air flow rate (m³/h(nor))	Water flow rate (L/min)	Air-water volume ratio
①	0.170	0.235	75.6	12.6	100
②	0.275	0.300	113.4	12.6	150
③	0.380	0.360	151.2	12.6	200



Measurement of particle size and velocity

Nozzle model number　KSMMS05243-A19-W10-21 0.6L/min (single nozzle) with an air-water volume ratio of 150



Test condition	Air pressure (MPa)	Water pressure (MPa)	Air flow rate (m³/h(nor))	Water flow rate (L/min)	Air-water volume ratio	Mean particle size, SMD (μm)	Mean particle 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