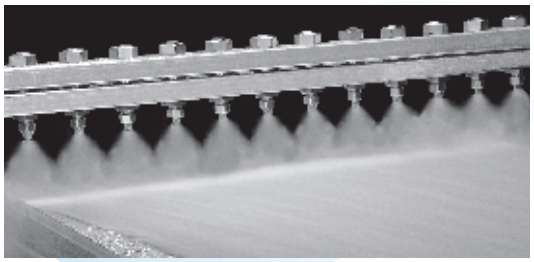
Mist Header





Features

- Excellent performance in removing particles.
- Uniform flow and impact force distributions.
- Compact and light weight design.
- Over 2 m header length is available.

Applications

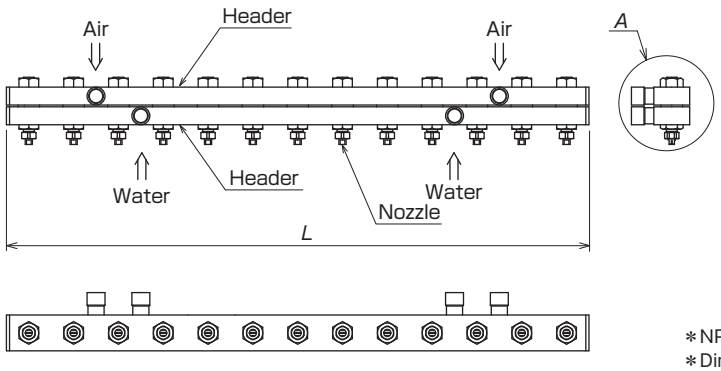
- Mist washing, deodorization, humidity conditioning.
- Coating, sterilization, surface treatment, cooling, etc.

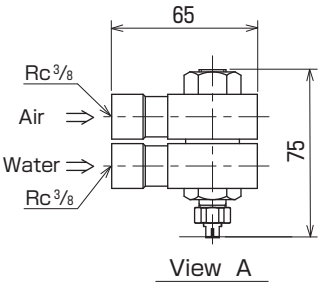
Materials

- Header : 304 Stainless steel
- Nozzle : 303 Stainless steel

Shapes and dimensions

● KSMMS, WP type





＊NPT thread is also available.
＊Dimension *L* is to be specified by the customer.

●Model and Model Number representing

KSMMS 05243 – A19 W10 – 21

- KSMMS 05243 – A19 W10: Model nunber of Mini Mist Nozzle
- 21: Number of nozzles

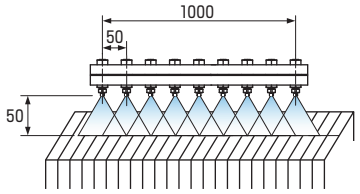
● Standard type model number list

Nozzle model number (Nozzle specification)	Min. orifice diameter for liquid [mm]	Air pressure [MPa]	Water flow rate [L/min] and air flow rate [m³/h(nor)] at following water pressure [MPa]									
			0.1		0.2		0.3		0.4		0.5	
			Water	Air	Water	Air	Water	Air	Water	Air	Water	Air
KSMMS 02285-A20 W09-21 (Water flow rate per nozzle: 0.2 L/min, Air-water volume ratio: 300)	0.9	0.1	2.8	35.7	8.9	16.5	13.1	8.9	15.8	7.9	17.8	7.8
		0.2	–	–	3.6	47.3	9.8	32.0	13.0	20.5	16.2	17.0
		0.3	–	–	–	–	4.3	66.0	9.7	47.3	13.3	39.8
		0.4	–	–	–	–	–	–	4.8	85.0	9.6	69.0
KSMMS 05243-A19 W10-21 (Water flow rate per nozzle: 0.6 L/min, Air-water volume ratio: 150)	1.0	0.1	7.5	57.8	12.9	46.5	17.2	36.5	19.8	31.3	22.0	28.2
		0.2	4.8	105	10.1	93.5	14.5	80.7	18.2	69.9	21.3	62.1
		0.3	2.6	145	7.4	136	11.9	126	15.8	115	19.3	104
		0.4	–	–	5.0	174	9.5	168	13.6	159	17.2	146
KSMMS 07268-A28 W19-21 (Water flow rate per nozzle: 1.0 L/min, Air-water volume ratio: 100)	1.9	0.1	12.4	67.3	39.5	17.7	58.2	7.5	69.3	4.1	76.2	2.0
		0.2	–	–	17.2	106	39.4	48.2	57.4	28.6	68.1	20.2
		0.3	–	–	1.9	253	21.0	138	39.7	81.2	57.3	50.2
		0.4	–	–	–	–	6.0	290	22.6	179	41.2	117

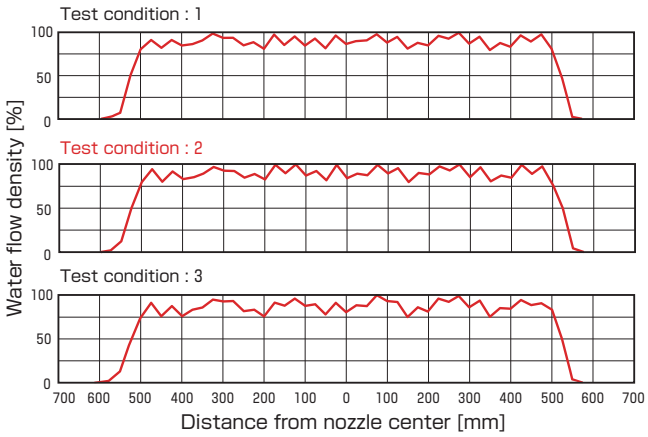
Performance data

Water flow distribution

Nozzle model number KSMMS 05243 – A19 W10 – 21
Nozzle specification Water flow rate per nozzle: 0.6 L/min, Air-water volume ratio: 150

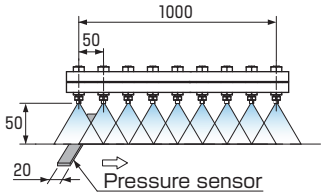


Test condition	Air pressure [MPa]	Water pressure [MPa]	Air flow rate [m³/h(nor)]	Water flow rate [L/min]	Air-water volume ratio
1	0.170	0.235	75.6	12.6	100
2	0.275	0.300	113.4	12.6	150
3	0.380	0.360	151.2	12.6	200

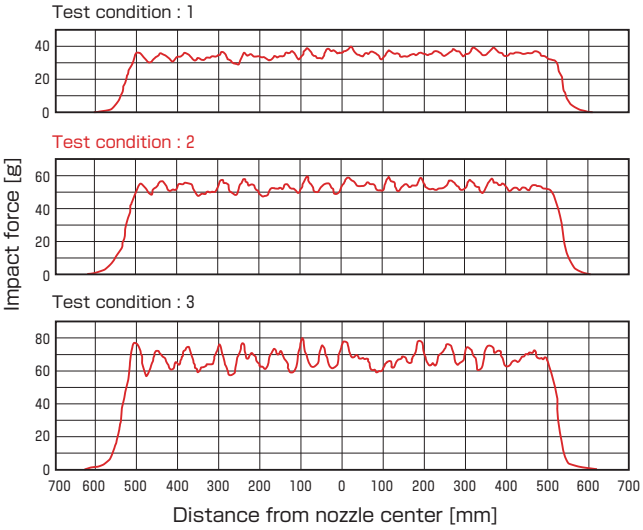


Impact force distribution

Nozzle model number KSMMS 05243 – A19 W10 – 21
Nozzle specification Water flow rate per nozzle: 0.6 L/min, Air-water volume ratio: 150

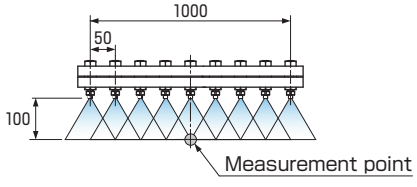


Test condition	Air pressure [MPa]	Water pressure [MPa]	Air flow rate [m³/h(nor)]	Water flow rate [L/min]	Air-water volume ratio
1	0.170	0.235	75.6	12.6	100
2	0.275	0.300	113.4	12.6	150
3	0.380	0.360	151.2	12.6	200



Particle size and velocity

Nozzle model number KSMMS 05243 – A19 W10 – 21
Nozzle specification Water flow rate per nozzle: 0.6 L/min, Air-water volume ratio: 150



Test condition	Air pressure [MPa]	Water pressure [MPa]	Air flow rate [m³/h(nor)]	Water flow rate [L/min]	Air-water volume ratio	Sauter mean diameter [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