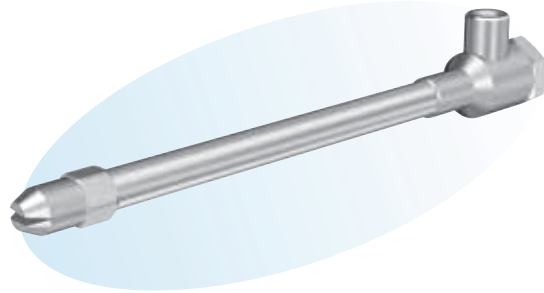


Air Mist Nozzle Flat pattern type



► Features

- Simple structure minimizes clogging.
- Small mean particle size and less discrepancy.

► Applications

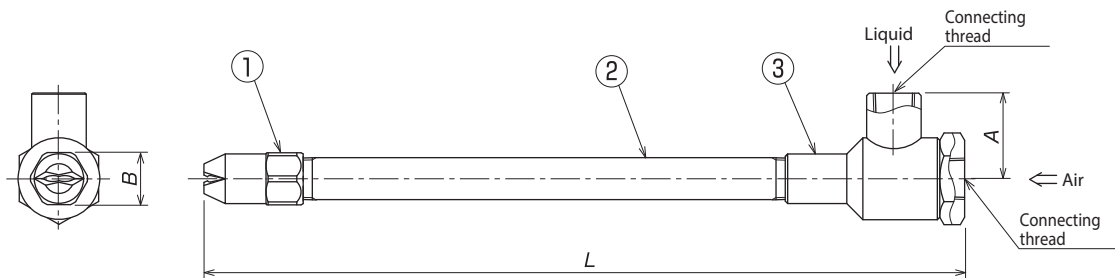
- Waste water atomizing in incinerator.
- Spraying urea water or ammonia water.
- Cooling of gases.

► Material

- Principal parts : 316L or 310S Stainless steel

Shapes and dimensions

● KSAMM



No.	Part name
1	Nozzle tip
2	Pipe
3	Mixing body

Model	Dimension [mm]		Connecting thread	
	A	B	Liquid	Air
1/4 KSAMM	34.5	17	Rc 1/4	Rc 1/4
3/8 KSAMM	34.5	21	Rc 3/8	Rc 3/8
1/2 KSAMM	49	26	Rc 1/2	Rc 1/2

* NPT thread is also available.

* Dimension L is to be specified by the customer.

● Model and Model Number representing

Model number of nozzle tip				Model number of pipe		Model number of mixing body											
1/4	K	S	A	M	M	2081	—	1/4	S	1000	—	1/4	A	42	1/4	W	23
Thread size					Model number			Thread size	Nozzle length			Thread size for air			Thread size for liquid		

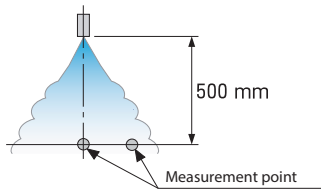
● Standard type model number list

Criterion water flow rate [L/h]	Air flow rate [m ³ /h(nor)]	Spray angle	Model number of nozzle tip	Model number of mixing body	Min. orifice diameter for liquid [mm]
30	4.5	30°	1/4 KSAMM 0430	1/4 A18 1/4 W10	1.0
		60°	1/4 KSAMM 0370		1.0
		90°	1/4 KSAMM 03125		0.6
50	7.5	30°	1/4 KSAMM 0738	1/4 A25 1/4 W14	1.4
		60°	1/4 KSAMM 0666		1.4
		90°	1/4 KSAMM 06115		0.8
70	10.5	30°	1/4 KSAMM 1039	1/4 A29 1/4 W16	1.6
		60°	1/4 KSAMM 0965		1.6
		90°	1/4 KSAMM 09137		1.1
100	15.0	30°	1/4 KSAMM 1848	1/4 A35 1/4 W19	1.9
		60°	1/4 KSAMM 1483		1.9
		90°	1/4 KSAMM 12119		1.3
150	22.5	30°	1/4 KSAMM 2230	1/4 A42 1/4 W23	2.3
		60°	1/4 KSAMM 2081		2.3
		90°	1/4 KSAMM 22125		2.3
200	30	30°	3/8 KSAMM 2736	3/8 A48 3/8 W27	2.7
		60°	3/8 KSAMM 2572		2.7
		90°	3/8 KSAMM 26102		2.5
300	45	30°	3/8 KSAMM 3835	3/8 A62 3/8 W35	3.5
		60°	3/8 KSAMM 3775		3.5
		90°	3/8 KSAMM 37108		3.3
400	60	30°	3/8 KSAMM 5828	3/8 A71 3/8 W40	4.0
		60°	3/8 KSAMM 5865		4.0
		90°	3/8 KSAMM 54115		4.0
500	75	30°	1/2 KSAMM 6929	1/2 A80 1/2 W45	4.5
		60°	1/2 KSAMM 6965		4.5
		90°	1/2 KSAMM 61115		4.2

* The criterion water flow rate is a value of air pressure 0.3 MPa or less, water pressure 0.3 MPa or less, and air-water volume ratio 150.

■ Performance data
Particle size and velocity

Nozzle model number 1/4KSAMM 2081 - 1/4S1000 - 1/4A42 1/4W23

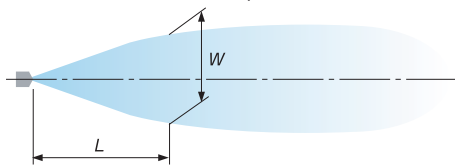


Air pressure [MPa]	Water pressure [MPa]	Air flow rate [m ³ /h (nor)]	Water flow rate [L/h]	Air-water volume ratio	Sauter mean diameter [μm]		Mean particle velocity [m/s]	
					Center	Periphery	Center	Periphery
0.28	0.28	22.5	150	150	57.4	49.3	9.4	7.8

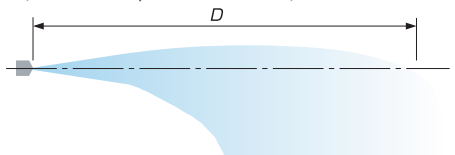
Spray patterns

Nozzle model number 1/4KSAMM 2281 - 1/4S1000 - 1/4A42 1/4W23

[Widthwise, view from the top]



[Thicknesswise, view from the side]



Air pressure [MPa]	Water pressure [MPa]	Air flow rate [m ³ /h (nor)]	Water flow rate [L/h]	Air-water volume ratio	Spray pattern value [mm]		
					D	L	W
						500	580
0.28	0.28	22.5	150	150	5000	1000	850
						2000	1100
						3000	1400