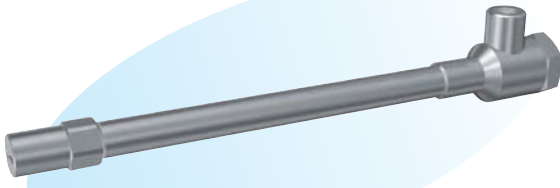


Air Mist Nozzles



► Features

- Simple internal structure of nozzle highly resistant to clogging and easy to maintain.
- Uniform water flow distribution.
- Various shapes such as compact and bent types.
- Low consumption of air.
- Wide control range.
- Small mean particle size and less discrepancy.
- Superwide angle type available.
- Can be mounted in a corner or limited space by using a mixing tube.
- High resistance to wear with long service life due to simultaneous flow of air.

► Applications

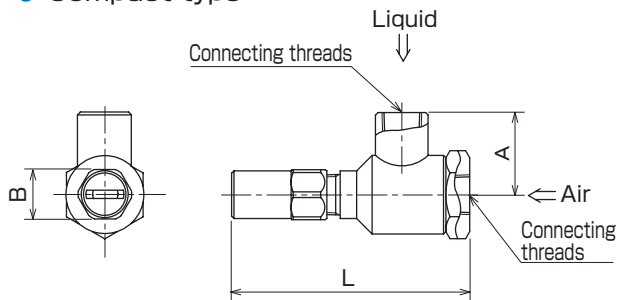
- Secondary cooling in continuous casting machines.
- Cooling of gases.
- Spraying of chemicals.
- Waste water atomizing.
- Humidification in paper mill.

► Materials

- Nozzle tip : Stainless steel (standard material: SUS303) or brass
- Pipe : Stainless steel (standard material: SUS304TP)
- Mixing body: Stainless steel (standard material: SUS303 and 304)

Shapes and dimensions

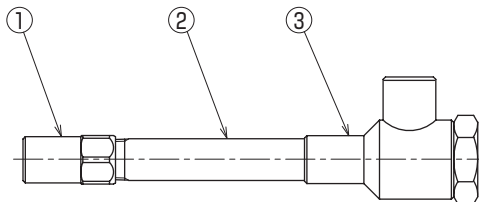
● Compact type



NPT thread is also available.

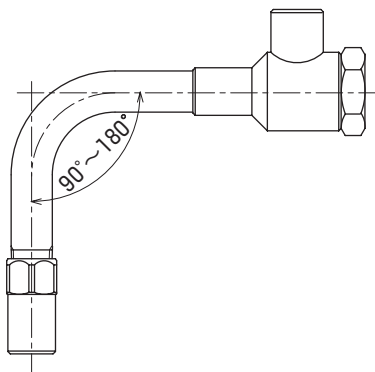
Model	Dimensions(mm)			Connecting threads		Weight (g)
	A	B	L	Liquid	Air	
¼ KSAME	34.5	17	100	Rc ¼	Rc ¼	200
⅜ KSAME	34.5	21	100	Rc ⅜	Rc ⅜	350
½ KSAME	49	26	140	Rc ½	Rc ½	850
¾ KSAME	49	32	150	Rc ½	Rc ½	1000

● Straight type

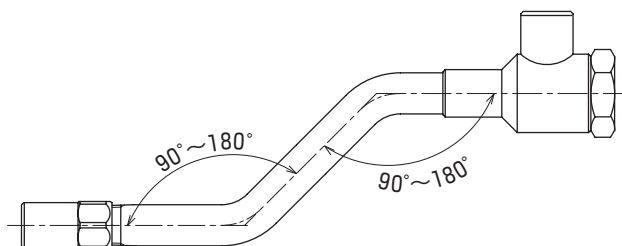


No.	Part name
①	Nozzle tip
②	Pipe
③	Mixing body

● Elbow type



● Bent type



● Model and Model Number representing

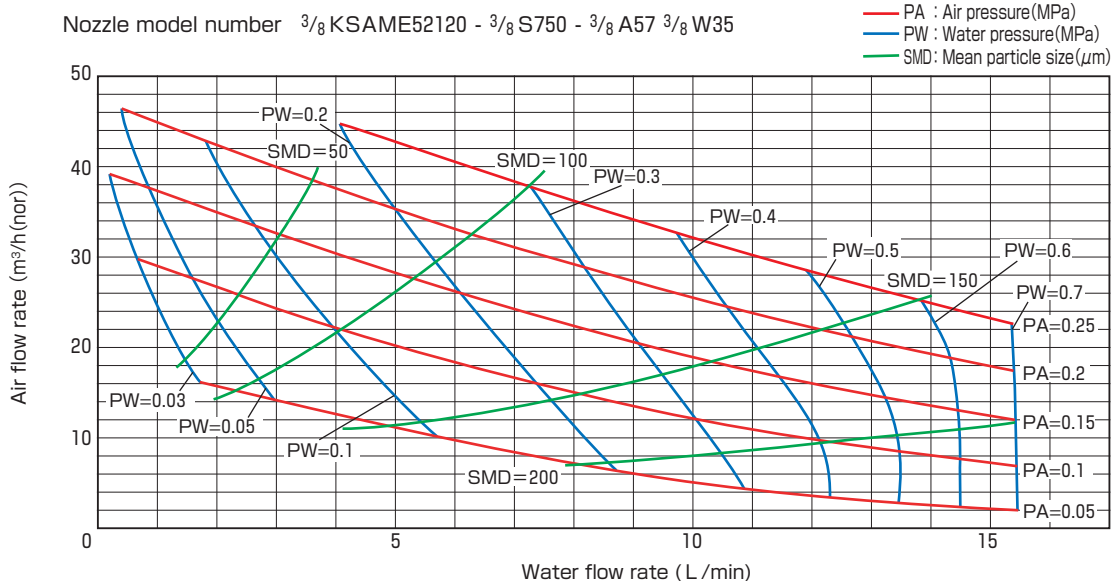
Model number of nozzle tip			Model number of mixing body		
1/4	K S A M E	1 3 6 0	-	1/4 A 33	1/4 W 26
Connecting threads	Material S - stainless steel B - brass	Model number		Connecting threads for air	Connecting threads for liquid

● Standard type model number list

Model number of nozzle tip	Model number of mixing body	Minimum orifice diameter for liquid (mm)	Air pressure (MPa)	Water flow rate (L/min) and air flow rate (m ³ /h (nor)) at following water pressure (MPa)										Spray angle	
				0.1		0.2		0.3		0.5		0.7			
				Water	Air	Water	Air	Water	Air	Water	Air	Water	Air		
1/4 KSAME 0740	1/4 A25 1/4 W20	2.0	0.1	0.9	3.3	2.3	1.3	3.3	0.5						Approx. 40°
			0.2			1.3	4.8	2.4	3.0	4.0	1.3				
			0.3			0.3	9.8	1.4	6.5	3.3	3.3	4.7	1.8		
			0.4					0.5	11.8	2.5	6.0	4.1	3.8		
1/4 KSAME 0960	1/4 A40 1/4 W23	2.0	0.1	0.8	4.7	3.0	1.3	4.3	0.4					Approx. 60°	
			0.2			0.9	8.2	3.1	3.3	5.3	1.2	6.6	0.4		
			0.3					1.1	11.2	4.3	3.9	6.1	2.0		
			0.4							3.1	8.3	5.3	4.5		
1/4 KSAME 1362	1/4 A33 1/4 W26	2.2	0.1	1.5	5.0	3.8	1.9	5.4	0.6					Approx. 60°	
			0.2			2.2	7.2	4.2	5.2	6.7	1.8	8.3	0.8		
			0.3			0.4	17.0	2.3	10.5	5.6	4.6	7.6	2.8		
			0.4					0.8	19.4	4.3	9.4	6.7	5.8		
1/4 KSAME 18143	1/4 A40 1/4 W28	1.5	0.1	1.8	8.4	4.4	3.6	6.2	2.0	8.1	0.8			Approx. 130°	
			0.2			2.5	12.5	4.5	8.2	7.6	4.2	9.3	2.5		
			0.3					2.8	17.2	6.3	9.4	8.8	6.0		
			0.4							5.0	16.2	7.7	10.8		
3/8 KSAME 2258	3/8 A60 3/8 W33	2.9	0.1	1.7	11.7	6.3	3.5	9.2	1.4					Approx. 60°	
			0.2			2.2	19.0	6.4	9.0	11.0	3.9	13.9	1.6		
			0.3					2.7	24.0	9.0	10.0	12.8	5.6		
			0.4							6.8	18.6	11.2	11.0		
3/8 KSAME 2690	3/8 A48 3/8 W38	2.3	0.1	3.3	11.8	8.5	4.0	11.5	1.5					Approx. 90°	
			0.2	0.4	30.0	4.2	18.4	8.6	10.2	14.3	4.0	17.5	2.0		
			0.3			1.3	36.0	5.0	25.0	12.0	11.0	16.5	6.0		
			0.4					1.9	43.0	9.1	22.0	14.5	12.5		
3/8 KSAME 3375	3/8 A55 3/8 W43	3.0	0.1	4.0	13.5	11.0	4.2	15.2	1.8					Approx. 70°	
			0.2			5.5	21.0	11.6	10.2	18.6	4.0	23.5	1.2		
			0.3			1.4	46.0	6.3	28.5	15.4	12.5	21.4	6.3		
			0.4					2.4	54.0	11.7	26.5	18.9	14.0		
3/8 KSAME 4196	3/8 A80 3/8 W46	3.3	0.1	3.5	18.3	12.0	5.0	17.0	1.5					Approx. 90°	
			0.2			4.0	30.3	13.0	12.5	21.0	4.8	26.5	2.0		
			0.3					5.5	41.0	27.6	14.2	24.5	7.5		
			0.4							12.8	30.5	21.4	16.8		
1/2 KSAME 59133	1/2 A73 1/2 W51	2.7	0.1	6	26	15	11	22	5					Approx. 120°	
			0.2	1	68	8	42	16	24	26	11	33	6		
			0.3					10	54	22	28	30	17		
			0.4							17	51	27	32		
1/2 KSAME 8096	1/2 A120 1/2 W59	3.9	0.1	5	40	21	11	29	4					Approx. 90°	
			0.2			7	63	21	27	35	12	45	5		
			0.3					8	85	29	31	42	16		
			0.4							22	62	36	35		
1/2 KSAME 9596	1/2 A120 1/2 W66	4.4	0.1	7	45	26	12	37	5					Approx. 90°	
			0.2			7	78	26	32	45	13	55	7		
			0.3					10	102	38	33	51	19		
			0.4							27	73	45	49		
1/2 KSAME 112144	1/2 A110 1/2 W73	3.6	0.1	10	47	30	13	42	5					Approx. 130°	
			0.2			13	73	30	33	54	13	67	7		
			0.3					13	105	42	38	62	20		
			0.4							31	77	54	41		
3/4 KSAME 180145	1/2 A140 1/2 W96	5.0	0.1	16	85	59	22	76	9					Approx. 130°	
			0.2					55	45	93	22	119	10		
			0.3							78	59	108	33		
			0.4							57	133	95	70		
3/4 KSAME 225141	1/2 A170 1/2 W120	6.0	0.1	23	80	78	17	110	5					Approx. 130°	
			0.2					78	47	134	15				
			0.3							114	46	159	22		
			0.4							81	127	139	52		

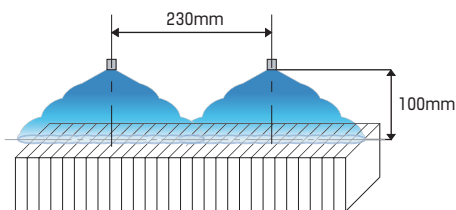
● Performance data

Characteristic curves



Distribution graphs

Nozzle model number $\frac{3}{8}$ KSAME52120 - $\frac{3}{8}$ S750 - $\frac{3}{8}$ A57 $\frac{3}{8}$ W35



Water flow rate distribution	Impact force distribution	Test condition
<p>Water flow density (%) vs Distance from overlap center (mm)</p>	<p>Impact force vs Spray width</p>	Air flow rate = 29.0 m ³ /h(nor) Water flow rate = 0.93 L/min Air-water volume ratio = 520
<p>Water flow density (%) vs Distance from overlap center (mm)</p>	<p>Impact force vs Spray width</p>	Air flow rate = 19.5 m ³ /h(nor) Water flow rate = 9.57 L/min Air-water volume ratio = 34
<p>Water flow density (%) vs Distance from overlap center (mm)</p>	<p>Impact force vs Spray width</p>	Air flow rate = 14.9 m ³ /h(nor) Water flow rate = 17.22 L/min Air-water volume ratio = 14