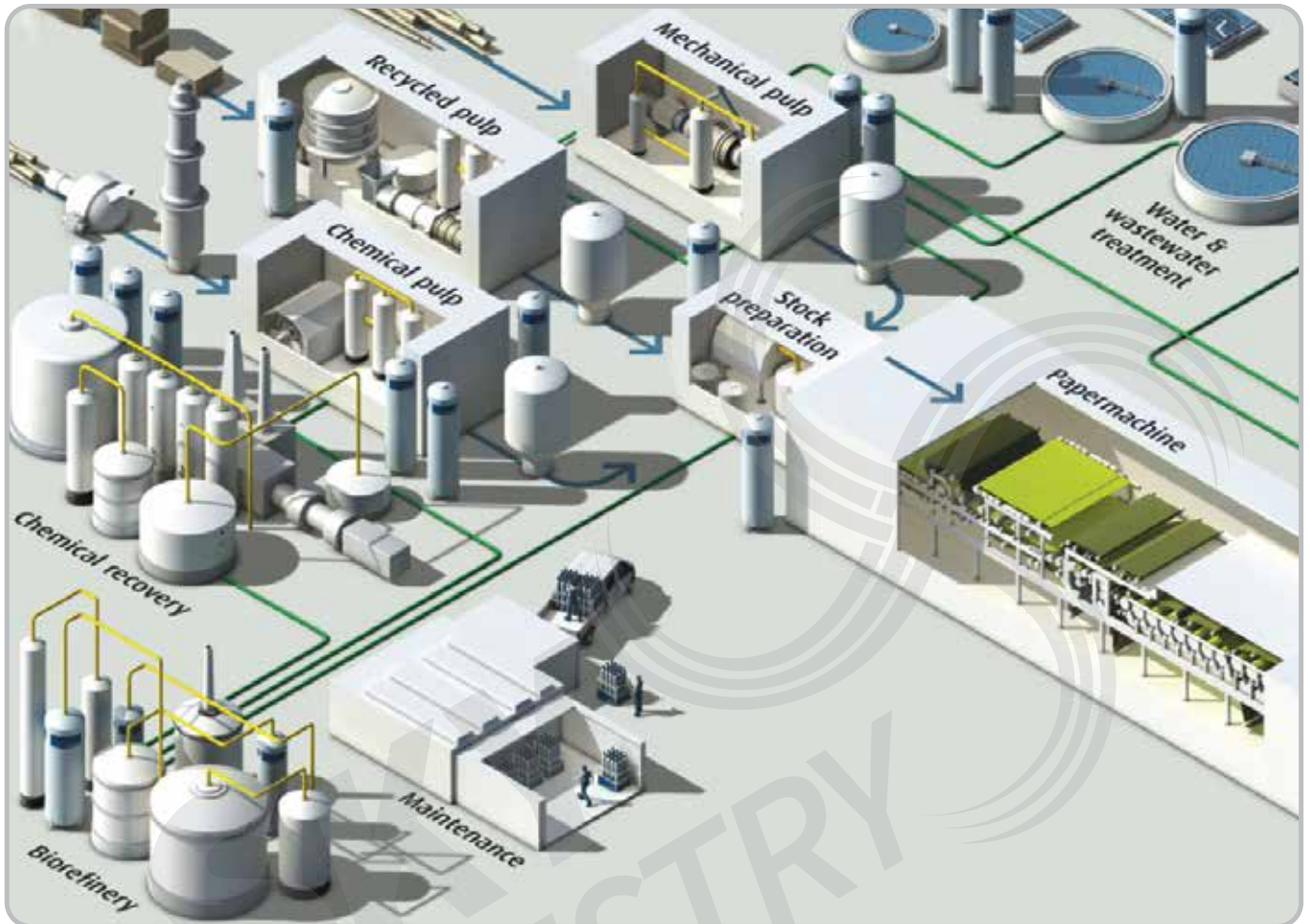




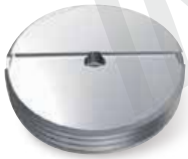





FULFIL TECHNOLOGY FOR THE BEST SOLUTIONS

กระบวนการผลิตเยื่อและกระดาษที่ใช้หัวสเปร์ย์



MODEL	THREADS	MATERIAL
ITF SERIES 	3/8	Stainless 303 from japan
SELF-CLEANING NOZZLE 	1/2, 3/4	Stainless steel (JIS SUS303 or SUS316)
SIDE SPRAY NOZZLES 	1/8 , 1/4, 3/8	Stainless steel (JIS SUS303 or SUS316)
FLAT SPRAY NOZZLES 	1/4, 3/8	Stainless steel (Standard material : JIS SUS303)
CAT'S-EYE NOZZLES 	1/4, 3/8	Stainless steel (Standard material : JIS SUS303)
FLAT ATOMIZING NOZZLES 	1/4	Stainless steel (Standard material : JIS SUS303)



FEATURES

- uniform flat distribution
- orifice inside the pipe to prevent foreign matter from staying on the orifice
- resistant to clogging and easy to clean
- easy to remove for Maintenance service type

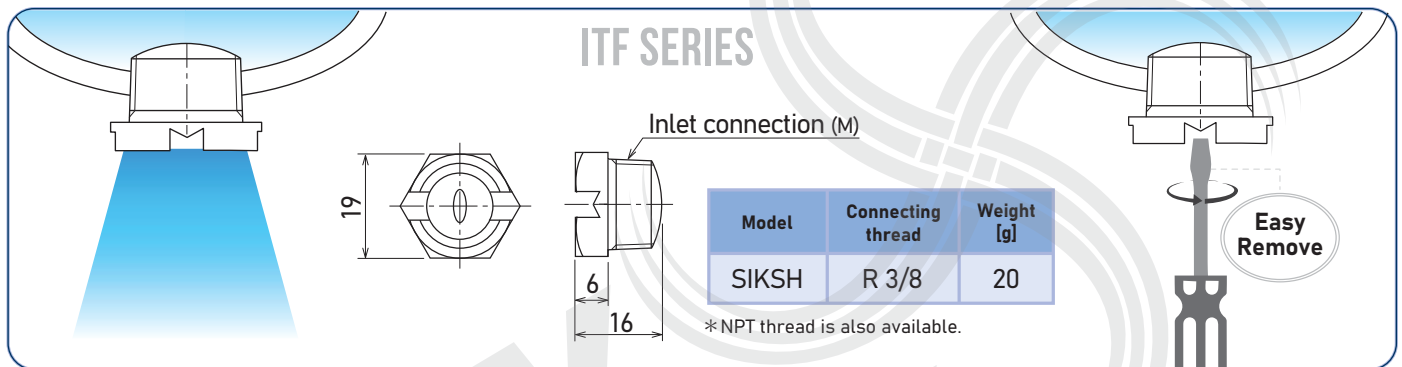
MATERIAL

- Materials Stainless 303 from japan

APPLICATIONS

- Steel Plant / Paper Plant / Other
- Washing & Cleaning of Felts, wire shower Spray
- Cooling

SHAPES AND DIMENSION



ITF SERIES

Males thread 3/8 PT standard

3/8

Connecting threads

SIKSH

material S-stainless steel

1050

Model number

C

STANDARD TYPE MODEL NUMBER LIST

Inlet connection	Mode number	Minimum orifice diameter [mm]	Flow rate [L/min] at following pressure [MPa]			Spray angle at following pressure [MPa]
			0.2	0.3	0.7	
3/8	0450	1.2	2.1	4	6.1	50°
	0550	1.3	3.4	5	7.6	50°
	0650	1.3	4	6	9.2	50°
	0750	1.4	4.7	7	10.7	50°
	0850	1.5	5.4	8	12.2	50°
	1050	1.6	6.7	10	15.3	50°
	1370	1.7	8.7	13	19.8	70°
	2070	2.2	13.4	20	30.5	70°



FEATURES

Even if the nozzle orifice is blocked with foreign matter, the orifice can open wider by the reduction in spray pressure to 0.03 MPa, hence blockages can be removed without detaching clogging by water quality.

MATERIAL

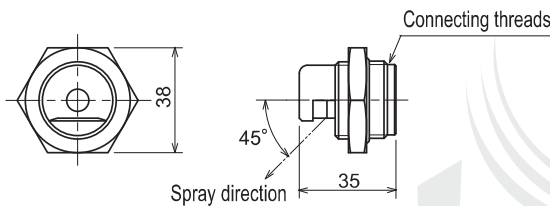
- Stainless steel (JIS SUS303 or SUS316)

APPLICATIONS

- Cleaning wire and felts.
- Cleaning wire roll and press roll.
- Cleaning by the equipment which is difficult to de-installation.

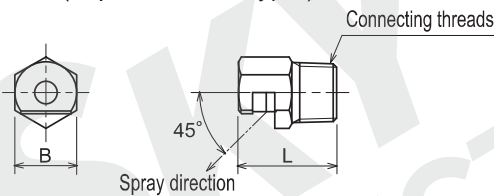
SHAPES AND DIMENSION

● Straight pattern (straight threaded type)



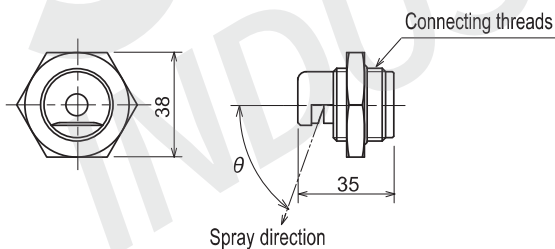
Model	Connecting threads	Weight (g)
SCJ	G 3/4 φ 28, 20 threads	130

● Straight pattern (taper threaded type)



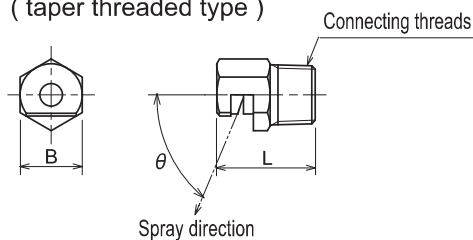
Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/2 SCJ	22	35	R 1/2	75
3/4 SCJ	27	35	R 3/4	120

● Flat pattern (straight threaded type)



Model	Connecting threads	Weight (g)
SCF	G 3/4 φ 28, 20 threads	130

● Flat pattern (taper threaded type)



Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/2 SCF	22	35	R 1/2	75
3/4 SCF	27	35	R 3/4	120

- Spray direction within 70- 85 degree.
- Maximum flow rate 6 l/min at 0.3 MPa for thread size 1/2. Thread size 3/4 is for more flow rate.

NPT thread is a solavailable

Model and Model number representing

STRAIGHT THREADED TYPE

S C J

J-straight pattern type
F-flat pattern type

0.8

Model number

G 3/4

Connecting threads
G3/4 - JIS G threaded
No symbol - ϕ 28, 20 threads

TAPER THREADED TYPE

S C J

J-straight pattern type
F-flat pattern type

0.8

Model number

STANDARD TYPE MODEL NUMBER LIST

Model	Model number	Equivalent orifice diameter (mm)	Flow rate (ℓ/min) at following pressure (MPa)											Spray angle at 0.3 MPa
			0.1	0.2	0.3	0.4	0.5	0.7	1	2	3	4	5	
SCJ	0.5	0.5	0.16	0.23	0.28	0.32	0.37	0.43	0.52	0.73	0.90	1.04	1.16	—
	0.6	0.6	0.24	0.33	0.41	0.47	0.53	0.63	0.75	1.06	1.30	1.50	1.68	—
	0.7	0.7	0.32	0.46	0.56	0.65	0.72	0.85	1.02	1.45	1.77	2.0	2.3	—
	0.8	0.8	0.42	0.60	0.73	0.84	0.94	1.12	1.33	1.89	2.3	2.7	3.0	—
	0.9	0.9	0.56	0.80	0.98	1.13	1.26	1.49	1.78	2.5	3.1	3.6	4.0	—
	1.0	1.0	0.66	0.93	1.14	1.31	1.47	1.74	2.1	2.9	3.6	4.2	4.6	—
	1.2	1.2	0.95	1.34	1.64	1.90	2.1	2.5	3.0	4.2	5.2	6.0	6.7	—
	1.5	1.5	1.48	2.1	2.6	3.0	3.3	3.9	4.7	6.6	8.1	9.4	10.5	—
SCF	0215	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	—	—	—	—	15°
	0240	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	—	—	—	—	40°
	0280	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	—	—	—	—	80°
	02130	1.3	1.15	1.63	2.0	2.3	2.6	3.1	3.7	—	—	—	—	130°
	0415	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	—	—	—	—	15°
	0440	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	—	—	—	—	40°
	0480	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	—	—	—	—	80°
	04130	1.9	2.3	3.3	4.0	4.6	5.2	6.1	7.3	—	—	—	—	130°
	0615	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	—	—	—	—	15°
	0640	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	—	—	—	—	40°
	0680	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	—	—	—	—	80°
	06130	2.3	3.5	4.9	6.0	6.9	7.7	9.2	11.0	—	—	—	—	130°
	1015	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	—	—	—	—	15°
	1040	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	—	—	—	—	40°
	1080	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	—	—	—	—	80°
	10130	3.0	5.8	8.2	10.0	11.5	12.9	15.3	18.3	—	—	—	—	130°
	1415	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	—	—	—	—	15°
	1440	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	—	—	—	—	40°
	1480	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	—	—	—	—	80°
	14130	3.5	8.1	11.4	14.0	16.2	18.1	21.4	25.6	—	—	—	—	130°
1815	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	—	—	—	—	15°	
1840	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	—	—	—	—	40°	
1880	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	—	—	—	—	80°	
18130	4.0	10.4	14.7	18.0	20.8	23.2	27.5	32.9	—	—	—	—	130°	



FEATURES

- Wide spray angle.
- Simple structure for resistance to clogging.
- No spraying interference by alternant layout of standard type and long type

MATERIAL

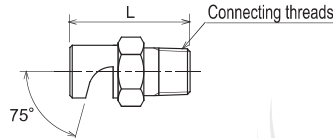
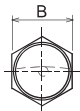
- Stainless steel (standard material : JIS SUS303)

APPLICATIONS

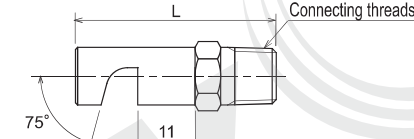
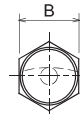
- Steel Plant / Paper Plant / Other
- Washing & Cleaning of Felts, wire shower Spray
- Cooling

SHAPES AND DIMENSION

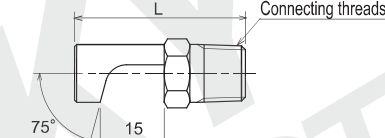
● KSY type



● KSY... L type



● KSYL type



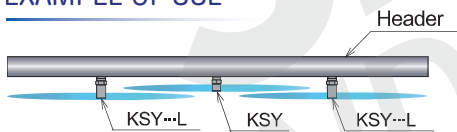
Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/8 KSY	12	25	R 1/8	20
1/4 KSY	14	34	R 1/4	35
3/8 KSY	17	44	R 3/8	70

Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/8 KSY...L	12	35	R 1/8	25
1/4 KSY...L	14	44	R 1/4	40

Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/8 KSYL	12	40	R 1/8	25
1/4 KSYL	14	40	R 1/4	40
3/8 KSYL	17	44	R 3/8	70

NPT thread is also available

EXAMPLE OF USE



SIDE SPRAY NOZZLES

Model and Model number representing

1/4

Connecting threads

K S Y

material
S-stainless steel

10

Model number

STANDARD TYPE MODEL NUMBER LIST

● : Model availability

Connecting threads	Model			Model number	Minimum orifice dia. (mm)	Flow rate (ℓ/min) at following pressure (MPa)							Spray angle at following pressure (MPa)		
	KSY	KSY...L	KSYL			0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	1.0
1/8	●	●	●	01	1.1	0.58	0.82	1.00	1.15	1.29	1.53	1.83	127°	140°	148°
	●	●	●	015	1.2	0.87	1.22	1.50	1.73	1.94	2.3	2.7	127°	140°	148°
	●	●	●	02	1.4	1.15	1.63	2.0	2.3	2.6	3.1	3.7	128°	140°	147°
	●	●	●	03	1.7	1.73	2.4	3.0	3.5	3.9	4.6	5.5	128°	140°	147°
1/4	●	●	●	04	2.0	2.3	3.3	4.0	4.6	5.2	6.1	7.3	128°	140°	147°
	●	●	●	06	2.4	3.5	4.9	6.0	6.9	7.7	9.2	11.0	128°	140°	147°
	●	●	●	08	2.9	4.6	6.5	8.0	9.2	10.3	12.2	14.6	128°	140°	147°
	●	●	●	10	3.1	5.8	8.2	10.0	11.5	12.9	15.3	18.3	128°	140°	147°
	●	●	●	15	3.9	8.7	12.2	15.0	17.3	19.4	22.9	27.4	128°	140°	147°
3/8	●	●	●	20	4.4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	130°	140°	146°
	●	●	●	25	4.9	14.4	20.4	25.0	28.9	32.3	38.2	45.6	130°	140°	146°
	●	●	●	30	5.4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	130°	140°	146°

- In general, in the case of using white water, it is said to be lower incidence rate of clogging by using nozzle with orifice diameter more than 3mm.
- Long nose type is relatively easy maintenance structure.



FEATURES

- Simple structure for resistance to clogging.
- High impact force and large size droplets.

MATERIAL

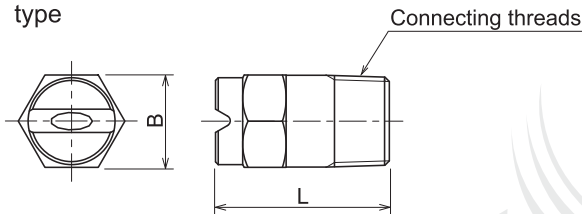
- Stainless steel (standard material : JIS SUS303)

APPLICATIONS

- Sheet knock shower, doctor shower
- Cleaning for rolls or screens.

SHAPES AND DIMENSION

● KSH type



Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/4 KSH	14	25	R 1/4	25
3/8 KSH	17	32	R 3/8	45

NPT thread is also available

FLAT SPRAY NOZZLES

Model and Model number representing

1/4
Connecting threads

K S H
material
S-stainless steel

1080
Model number

STANDARD TYPE MODEL NUMBER LIST

Connecting threads	Model number	Minimum orifice diameter (mm)	Flow rate (ℓ/min) at following pressure (MPa)								Spray angle at following pressure (MPa)					
			0.05	0.1	0.2	0.3	0.5	0.7	1.0	1.5	0.1	0.2	0.3	0.5	1.0	1.5
1/4	0465	1.3	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	54°	61°	65°	69°	72°	72°
	0480	1.1	1.63	2.3	3.3	4.0	5.2	6.1	7.3	8.9	67°	75°	80°	85°	88°	88°
	0865	2.0	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	56°	62°	65°	68°	71°	71°
	0880	1.7	3.3	4.6	6.5	8.0	10.3	12.2	14.6	17.9	68°	76°	80°	84°	86°	86°
	1065	2.3	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	56°	62°	65°	68°	70°	70°
	1080	2.0	4.1	5.8	8.2	10.0	12.9	15.3	18.3	22.4	70°	77°	80°	83°	85°	85°
	1565	3.0	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	56°	62°	65°	68°	70°	70°
	1580	2.5	6.1	8.7	12.2	15.0	19.4	22.9	27.4	33.5	70°	77°	80°	83°	85°	85°
	3065	4.2	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	57°	62°	65°	68°	70°	70°
	3080	4.0	12.2	17.3	24.5	30.0	38.7	45.8	54.8	67.1	72°	77°	80°	83°	85°	85°
3/8	3565	4.6	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	57°	62°	65°	68°	70°	70°
	3580	4.4	14.3	20.2	28.6	35.0	45.2	53.5	63.9	78.3	72°	77°	80°	83°	85°	85°
	4065	5.0	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	57°	62°	65°	68°	70°	70°
	4080	4.8	16.3	23.1	32.7	40.0	51.6	61.1	73.0	89.4	72°	77°	80°	83°	85°	85°



FEATURES

- Minimum projection when installed on header. Useful for the very short spray distance or limited connecting space.
- Resistant to clogging due to an almost circular orifice section with an increased minimum orifice diameter.

MATERIAL

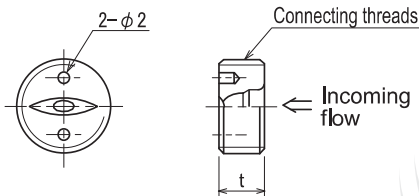
- Stainless steel (standard material : JIS SUS303)

APPLICATIONS

- For wetting and low-pressure shower of Wire and Felt roll.
- Inner washing of Suction Roll.

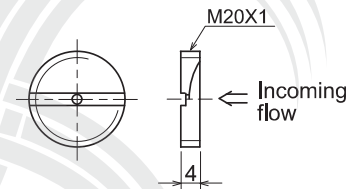
SHAPES AND DIMENSION

● KSS... P - A type



Model	Dimension t (mm)	Connecting threads	Weight (g)
1/4 KSS...P-A	5	G 1/4	4
3/8 KSS...P-A	8	G 3/8	10

● KSS... P - B type



Model	Weight (g)
KSS...P-B	8

CAT' S-EYE NOZZLES

Model and Model number representing

1/4

Connecting threads

K S S

0365

Model number

P - A

STANDARD TYPE MODEL NUMBER LIST

● : Model availability

Connecting threads (P-A type)	Model		Model number	Minimum Orifice dia. (mm)	Flow rate (ℓ/min) at following pressure (MPa)							Spray angle at following pressure (MPa)			
	KSS ...P-A	KSS ...P-B			0.05	0.1	0.2	0.3	0.4	0.5	0.7	0.1	0.2	0.3	0.5
1/4	●	●	00865	1.0	0.33	0.46	0.65	0.80	0.92	1.03	1.22	43°	59°	65°	69°
	●	●	0165	1.1	0.41	0.58	0.82	1.00	1.15	1.29	1.53	43°	59°	65°	69°
	●	●	0265	1.5	0.82	1.15	1.63	2.0	2.3	2.6	3.1	43°	59°	65°	69°
	●	●	0365	1.9	1.22	1.73	2.4	3.0	3.5	3.9	4.6	47°	60°	65°	68°
	●	●	0395	1.8	1.22	1.73	2.4	3.0	3.5	3.9	4.6	83°	92°	95°	98°
	●	●	0565	2.5	2.0	2.9	4.1	5.0	5.8	6.5	7.6	47°	60°	65°	68°
	●	●	0595	2.4	2.0	2.9	4.1	5.0	5.8	6.5	7.6	83°	92°	95°	98°
	●	●	0765	3.0	2.9	4.0	5.7	7.0	8.1	9.0	10.7	52°	61°	65°	68°
	●	●	0795	2.9	2.9	4.0	5.7	7.0	8.1	9.0	10.7	88°	93°	95°	98°
	●	●	1065	3.5	4.1	5.8	8.2	10.0	11.5	12.9	15.3	52°	61°	65°	68°
	●	●	1095	3.3	4.1	5.8	8.2	10.0	11.5	12.9	15.3	88°	93°	95°	98°
	●	●	1265	3.8	4.9	6.9	9.8	12.0	13.9	15.5	18.3	52°	61°	65°	68°
3/8	●	●	1295	3.6	4.9	6.9	9.8	12.0	13.9	15.5	18.3	88°	93°	95°	98°
	●	●	1565	4.3	6.1	8.7	12.2	15.0	17.3	19.4	22.9	52°	61°	65°	68°
	●	●	1595	4.1	6.1	8.7	12.2	15.0	17.3	19.4	22.9	88°	93°	95°	98°
	●	●	1965	4.8	7.8	11.0	15.5	19.0	21.9	24.5	29.0	52°	61°	65°	68°
	●	●	1995	4.6	7.8	11.0	15.5	19.0	21.9	24.5	29.0	88°	93°	95°	98°



FEATURES

- Soft spraying of fine droplets.
- Simple structure and easy maintenance.
- Many flow rate are obtainable by interchanging nozzle tip.

MATERIAL

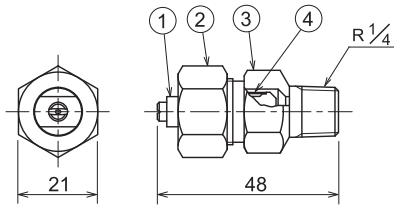
- Stainless steel (standard material : JIS SUS303)

APPLICATIONS

- Cleaning for gate roll.
- Humidity regulation.

SHAPES AND DIMENSION

● AS type



No.	Part name
1	Nozzle tip
2	Cap
3	Adapter
4	Filter

Weight (g)
60

NPT thread is also available

FLAT ATOMIZING NOZZLES

Model and Model number representing





1/4
Connecting threads

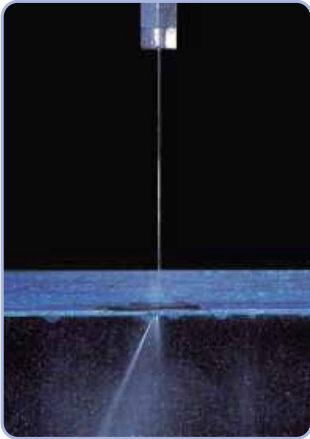
A S

1080
Model number

STANDARD TYPE MODEL NUMBER LIST

Connecting threads	Model number	Minimum orifice diameter (mm)	Flow rate (ℓ/min) at following pressure (MPa)							spray angle at following pressure (MPa)					Filter mesh
			0.1	0.2	0.3	0.5	0.7	1.0	1.5	0.1	0.3	0.5	1.0	1.5	
1/4	00240	0.3	0.115	0.163	0.20	0.26	0.31	0.37	0.45	14°	40°	52°	57°	57°	200
	00250	0.3	0.115	0.163	0.20	0.26	0.31	0.37	0.45	30°	50°	61°	67°	67°	
	00265	0.25	0.115	0.163	0.20	0.26	0.31	0.37	0.45	43°	65°	75°	82°	82°	
	00280	0.25	0.115	0.163	0.20	0.26	0.31	0.37	0.45	56°	80°	87°	92°	92°	
	00340	0.4	0.173	0.24	0.30	0.39	0.46	0.55	0.67	20°	40°	50°	55°	55°	200
	00350	0.3	0.173	0.24	0.30	0.39	0.46	0.55	0.67	35°	50°	59°	64°	64°	
	00365	0.3	0.173	0.24	0.30	0.39	0.46	0.55	0.67	45°	65°	74°	80°	80°	
	00380	0.3	0.173	0.24	0.30	0.39	0.46	0.55	0.67	58°	80°	86°	90°	90°	
	00440	0.5	0.23	0.33	0.40	0.52	0.61	0.73	0.89	25°	40°	48°	52°	52°	100
	00450	0.4	0.23	0.33	0.40	0.52	0.61	0.73	0.89	38°	50°	57°	61°	61°	
	00465	0.4	0.23	0.33	0.40	0.52	0.61	0.73	0.89	47°	65°	73°	78°	78°	
	00480	0.4	0.23	0.33	0.40	0.52	0.61	0.73	0.89	60°	80°	86°	90°	90°	
	00640	0.6	0.35	0.49	0.60	0.77	0.92	1.10	1.34	30°	40°	44°	46°	46°	100
	00650	0.6	0.35	0.49	0.60	0.77	0.92	1.10	1.34	39°	50°	56°	59°	59°	
	00665	0.5	0.35	0.49	0.60	0.77	0.92	1.10	1.34	49°	65°	72°	76°	76°	
	00680	0.5	0.35	0.49	0.60	0.77	0.92	1.10	1.34	62°	80°	86°	90°	90°	
	00840	0.7	0.46	0.65	0.80	1.03	1.22	1.46	1.79	31°	40°	44°	46°	46°	50
	00850	0.7	0.46	0.65	0.80	1.03	1.22	1.46	1.79	39°	50°	56°	59°	59°	
	00865	0.6	0.46	0.65	0.80	1.03	1.22	1.46	1.79	51°	65°	71°	75°	75°	
	00880	0.6	0.46	0.65	0.80	1.03	1.22	1.46	1.79	64°	80°	85°	88°	88°	
0140	0.8	0.58	0.82	1.00	1.29	1.53	1.83	2.2	31°	40°	44°	46°	46°	50	
0150	0.8	0.58	0.82	1.00	1.29	1.53	1.83	2.2	40°	50°	55°	58°	58°		
0165	0.7	0.58	0.82	1.00	1.29	1.53	1.83	2.2	51°	65°	71°	75°	75°		
0180	0.6	0.58	0.82	1.00	1.29	1.53	1.83	2.2	66°	80°	85°	88°	88°		

MODEL	THREADS	MATERIAL
<p>needle jet nozzles</p> 	<p>1/8, 3/8</p>	<p>Nozzle tip Cemented carbide or Ruby</p> <p>Nozzle case Stainless steel (standard material : JIS SUS303)</p>
<p>Straight Jet Nozzle</p> 	<p>1/8 , 1/4, 3/8</p>	<p>Nozzle tip Stainless steel, cemented carbide, ceramics, sapphire, or ruby</p> <p>Nozzle casing Stainless steel (standard material : JIS SUS303)</p>
<p>Straight Jet Nozzle - type C -</p> 	<p>1/8 , 1/4</p>	<p>Nozzle tip Stainless steel, cemented carbide, ceramics, sapphire, or ruby</p> <p>Nozzle casing Stainless steel (standard material : JIS SUS303)</p>
<p>self - cleaning nozzles double - needle</p> 	<p>1/2 , 3/4</p>	<p>Stainless steel (JIS SUS303 or JIS SUS316)</p>



ruby type :
enlargement of
the nozzle orifice



FEATURES

- High impact force without scatter of spray.
- Nozzle orifice of highly wear-resistant material.
- Any different diameters based upon paper weight and speed are available.

MATERIAL

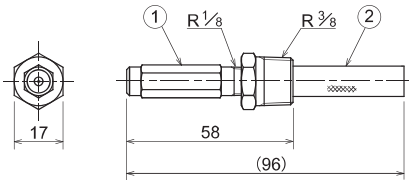
- Nozzle tip : Cemented carbide or Ruby
- Nozzle case : Stainless steel (standard material : JIS SUS303)

APPLICATIONS

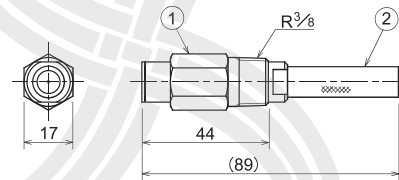
- Trim cutter (edge cutting), Tail cutter

SHAPES AND DIMENSION

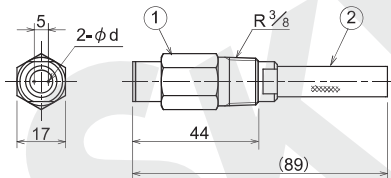
- $\frac{1}{8}$ KCJ ... D type
- $\frac{1}{8}$ KRJ ... D type



- $\frac{3}{8}$ KCJ ... D type
- $\frac{3}{8}$ KRJ ... D type

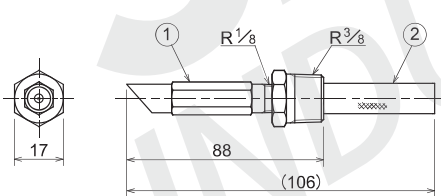


- $\frac{3}{8}$ KCJ ... D x 2 type (double-needle type)
- $\frac{3}{8}$ KRJ ... D x 2 type (double-needle type)

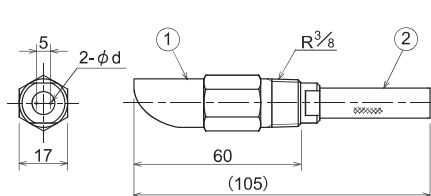


No.	Part name	Model	Weight (g)
1	Nozzle	$\frac{1}{8}$ KCJ...D	45
2	Filter	$\frac{3}{8}$ KCJ...D	60
		$\frac{3}{8}$ KCJ...Dx2	60

- $\frac{1}{8}$ KCJK ... D type (Papar powder prevention type)
- $\frac{1}{8}$ KRJK ... D type (Papar powder prevention type)

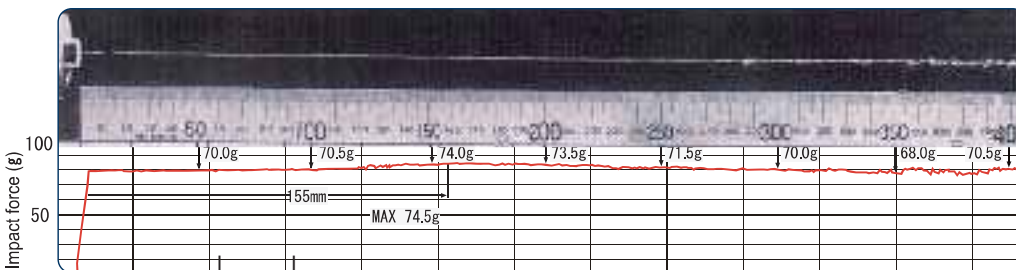


- $\frac{3}{8}$ KCJK ... D x 2 type (Papar powder prevention type)
- $\frac{3}{8}$ KRJK ... D x 2 type (Papar powder prevention type)



NPT thread is also available.

The Scatter Of Spray



Straightened aminar f ow up to 200mm without scatter and impact force is maximized distance at 150mm.

Double-needle Type





FEATURES

- Highly excellent straightness and larger impact force for better cleaning effect.
- Orifice of highly wear-resistant material such as cemented carbide, ruby, etc. (KCJ, KRJ, etc.)
- No increasing water flow rate much even if you use it for long time.

MATERIAL

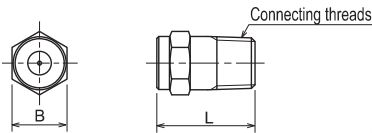
- Nozzle tip : Stainless steel, cemented carbide, ceramics, sapphire, or ruby
- Nozzle casing : Stainless steel (standard material : JIS SUS303)

APPLICATIONS

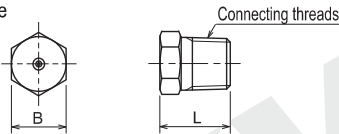
- High pressure cleaning for wire, felts, coach roll, canvas, screen, etc.

SHAPES AND DIMENSION

- KCJ ... S, KRJ ... S, KSJ ... S and KCEJ ... S types



- KSAJ type



Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/8 KCJ...S	10	18	R 1/8	10
1/4 KCJ...S	14	25	R 1/4	30
3/8 KCJ...S	17	32	R 3/8	50

Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/8 KSAJ	12	16	R 1/8	10
1/4 KSAJ	14	18	R 1/4	20

NPT thread is also available

STANDARD TYPE MODEL NUMBER LIST

• : Model availability

Connecting threads	Model					Model number	Orifice dia. (mm)	Flow rate (ℓ/min) at following pressure (MPa)								
	KCJ	KRJ	KSJ	KCEJ	KSAJ			0.3	0.5	0.7	1	2	3	4	5	
1/8	•	•	•	•	•	0.3	0.3	0.07	0.09	0.10	0.12	0.17	0.21	0.25	0.28	
	•	•	•	•	•	0.4	0.4	0.12	0.15	0.18	0.22	0.31	0.38	0.44	0.49	
	•	•	•	•	•	0.5	0.5	0.19	0.24	0.28	0.34	0.48	0.59	0.68	0.77	
	•	•	•	•	•	0.6	0.6	0.27	0.35	0.41	0.49	0.70	0.85	0.99	1.10	
	•	•	•	•	•	0.7	0.7	0.37	0.47	0.56	0.67	0.95	1.16	1.34	1.50	
	•	•	•	•	•	0.8	0.8	0.48	0.62	0.74	0.88	1.24	1.52	1.75	1.96	
	•	•	•	•	•	0.9	0.9	0.61	0.78	0.93	1.11	1.57	1.92	2.2	2.5	
	•	•	•	•	•	1.0	1.0	0.75	0.97	1.15	1.37	1.94	2.4	2.7	3.1	
	•	•	•	•	•	1.1	1.1	0.91	1.17	1.39	1.66	2.3	2.9	3.3	3.7	
	•	•	•	•	•	1.2	1.2	1.08	1.39	1.65	1.97	2.8	3.4	3.9	4.4	
	1/4	•	•	•	•	•	1.3	1.3	1.27	1.64	1.93	2.3	3.3	4.0	4.6	5.2
		•	•	•	•	•	1.4	1.4	1.47	1.90	2.3	2.7	3.8	4.6	5.4	6.0
		•	•	•	•	•	1.5	1.5	1.69	2.2	2.6	3.1	4.4	5.3	6.2	6.9
	3/8	•	•	•	•	•	1.6	1.6	1.92	2.5	2.9	3.5	5.0	6.1	7.0	7.8
		•	•	•	•	•	1.7	1.7	2.2	2.8	3.3	4.0	5.6	6.9	7.9	8.8
•		•	•	•	•	1.8	1.8	2.4	3.1	3.7	4.4	6.3	7.7	8.9	9.9	
•		•	•	•	•	1.9	1.9	2.7	3.5	4.1	4.9	7.0	8.6	9.9	11.0	
•		•	•	•	•	2.0	2.0	3.0	3.9	4.6	5.5	7.7	9.5	10.9	12.2	
•		•	•	•	•	2.1	2.1	3.3	4.3	5.1	6.0	8.5	10.5	12.1	13.5	
•		•	•	•	•	2.2	2.2	3.6	4.7	5.6	6.6	9.4	11.5	13.2	14.8	
•		•	•	•	•	2.3	2.3	4.0	5.1	6.1	7.2	10.2	12.5	14.5	16.2	
•		•	•	•	•	2.4	2.4	4.3	5.6	6.6	7.9	11.1	13.7	15.8	17.6	
•		•	•	•	•	2.5	2.5	4.7	6.0	7.2	8.6	12.1	14.8	17.1	19.1	

Flow rates are just for reference as they depend on orifice diameter.

STRAIGHT JET NOZZLE

Model and Model number representing

1/4

Connecting threads

K C J

Nozzle tip material
 C - cemented carbide
 R - ruby
 S - stainless steel
 CE - ceramics
 SA - sapphire

1.0 S

Model number

STRAIGHT SPRAY NOZZLES

Straight Jet Nozzle-Type C



FEATURES

- when mounted on a pipe, the nozzle orifice projects inside the pipe, and is highly resistant to clogging. CL type (Long type) is higher clogging resistant.

MATERIAL

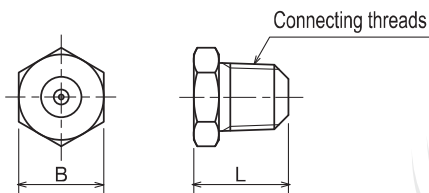
- Nozzle tip : Stainless steel, cemented carbide, ceramics, sapphire, or ruby
- Nozzle casing : Stainless steel (standard material : JIS SUS303)

APPLICATIONS

- High pressure cleaning for wire, felts, etc.

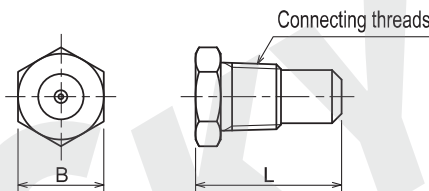
SHAPES AND DIMENSION

- KCJ ... C, KRJ ... C, KSJ ... C and KCEJ ... C types



Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/8 KCJ...C	12	15	R 1/8	15
1/4 KCJ...C	17	19	R 1/4	25
KCJ...C	17	19	M 14	25

- KCJ ... CL, KRJ ... CL, KSJ ... CL and KCEJ ... CL types



Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/8 KCJ...CL	12	29	R 1/8	20
1/4 KCJ...CL	17	29	R 1/4	40

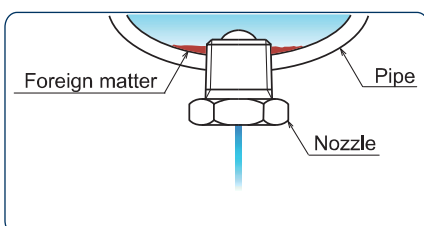
NPT thread is also available

STANDARD TYPE MODEL NUMBER LIST

Connecting threads	Model				Model number	Orifice dia. (mm)	Flow rate (ℓ/min) at following pressure (MPa)							
	KCJ	KRJ	KSJ	KCEJ			0.3	0.5	0.7	1	2	3	4	5
1/8	●	●			0.3	0.3	0.07	0.09	0.10	0.12	0.17	0.21	0.25	0.28
	●	●			0.4	0.4	0.12	0.15	0.18	0.22	0.31	0.38	0.44	0.49
	●	●			0.5	0.5	0.19	0.24	0.29	0.34	0.48	0.59	0.68	0.77
	●	●			0.6	0.6	0.27	0.35	0.41	0.49	0.70	0.85	0.99	1.10
	●	●			0.7	0.7	0.37	0.47	0.56	0.67	0.95	1.16	1.34	1.50
	●	●			0.8	0.8	0.48	0.62	0.73	0.88	1.24	1.52	1.75	1.96
1/4	●	●	●	●	0.9	0.9	0.61	0.78	0.93	1.11	1.57	1.92	2.2	2.5
	●	●	●	●	1.0	1.0	0.75	0.97	1.15	1.37	1.94	2.4	2.7	3.1
	●	●	●	●	1.2	1.2	1.08	1.39	1.65	1.97	2.8	3.4	3.9	4.4
	●	●	●	●	1.5	1.5	1.69	2.2	2.6	3.1	4.4	5.3	6.2	6.9
	●	●	●	●	2.0	2.0	3.0	3.9	4.6	5.5	7.7	9.5	10.9	12.2

Flow rates are just for reference as they depend on orifice diameter.

EXAMPLE OF USE



STRAIGHT JET NOZZLE TYPE C

Model and Model number representing

1/4

Connecting threads

K C J

Nozzle tip material
C - cemented carbide
R - ruby
S - stainless steel
CE - ceramics
SA - sapphire

1.0 S

Model number

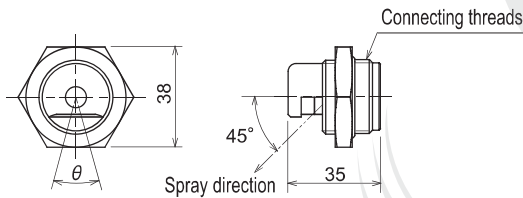


FEATURES

- Available to increase cleaning efficiency. More effective wire cleaning when just mounting both header end.
Spray angle : 30° type and 45° type.

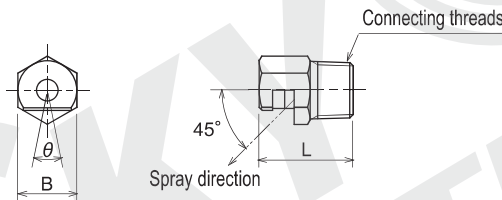
SHAPES AND DIMENSION

- SCJ double-needle type (straight threaded type)



Model	Connecting threads	Weight (g)
SCJ••x2	G 3/4 φ28, 20 threads	130

- SCJ double-needle type (taper threaded type)



Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/2 SCJ••x2	22	35	R 1/2	75
3/4 SCJ••x2	27	35	R 3/4	120

θ : Gap at each needle jets

NPT thread is also available

Model and Model number representing

STRAIGHT THREADED TYPE

S C J 0.5X2 G 3/4 - 45°

Model number | Connecting threads G3/4 - JIS G threaded | Gap at each needle jets
No symbol - φ28, 20 threads

TAPER THREADED TYPE

1/2 S C J 0.5X2 - 30°

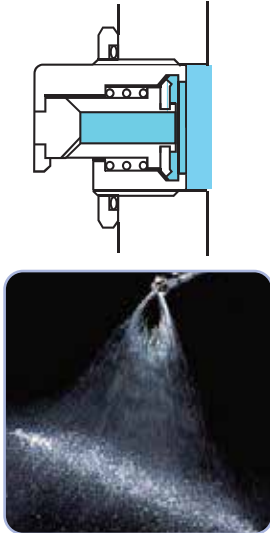
Connecting threads | Model number | Gap at each needle jets

STANDARD TYPE MODEL NUMBER LIST

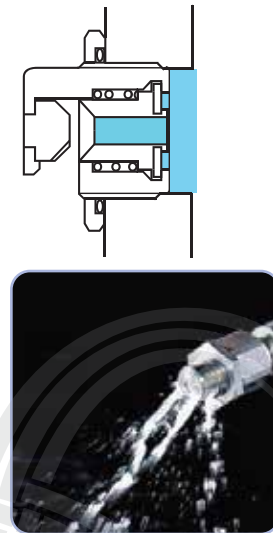
Model	Model number	Equivalent orifice diameter (mm)	Flow rate (ℓ/min) at following pressure (MPa)											Spray angle at 0.3 MPa
			0.1	0.2	0.3	0.4	0.5	0.7	1	2	3	4	5	
SCJ	0.5 X 2	0.5	0.32	0.46	0.56	0.64	0.74	0.86	1.04	1.46	1.80	2.1	2.3	—
	0.6 X 2	0.6	0.48	0.66	0.82	0.94	1.06	1.26	1.50	2.1	2.6	3.0	3.4	—
	0.7 X 2	0.7	0.64	0.92	1.12	1.30	1.44	1.70	2.0	2.9	3.5	4.0	4.6	—
	0.8 X 2	0.8	0.84	1.20	1.46	1.68	1.88	2.2	2.7	3.8	4.6	5.4	6.0	—
	0.9 X 2	0.9	1.12	1.60	1.96	2.3	2.5	3.0	3.6	5.0	6.2	7.2	8.0	—
	1.0 X 2	1.0	1.32	1.86	2.3	2.6	2.9	3.5	4.2	5.8	7.2	8.4	9.2	—
	1.2 X 2	1.2	1.90	2.7	3.3	3.8	4.2	5.0	6.0	8.4	10.4	12.0	13.4	—
1.5 X 2	1.5	3.0	4.2	5.2	6.0	6.6	7.8	9.4	13.2	16.2	18.8	21.0	—	

CLEANING PRINCIPLE

● In normal operation (at increased pressure)



● When cleaning foreign matters (at 0.03 MPa)



Flow rate should not exceed 10 ℓ/min for purging foreign substances.

NOZZLE WEAR

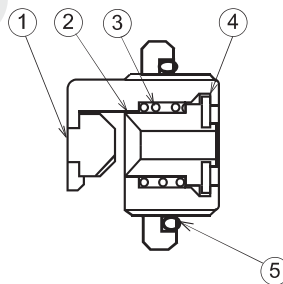
Sometime, Self cleaning nozzle has wear from a high-pressure process. Everloy nozzles can be manufactured from materials other than standard materials. (Coated nozzle, Nozzle tip and guide manufactured from anti-wear materials etc.) For more information, please contact our sales representatives.

REPAIR SERVICE

Everloy will offer assistance in good spray nozzle maintenance.

We can replacement of components and check the performance in our factory. (fare-paying services) Components mean Nozzle tip, Nozzle guide, Spring, Diaphragm and O-ring.

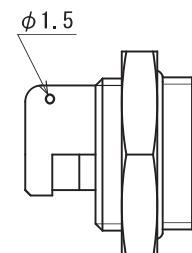
We can help your spray nozzle maintenance cost and time.





Symbol	Name	Material
1	Nozzle tip	SUS 303
2	Nozzle guide	SUS 303
3	Spring	SUS 316
4	Diaphragm	Rubber
5	O ring	Rubber

PROTECTION AGAINST FALLING NOZZLES

We can manufacture the pierced nozzles as shown the picture if you need. Lacing a wire through a hole, it is available to protect against falling nozzles.



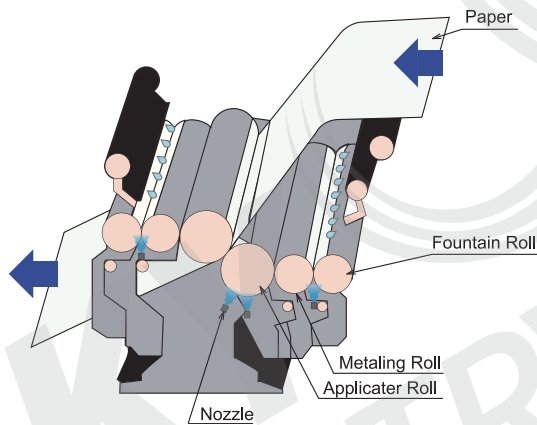
MODEL	THREADS	MATERIAL
<p>Mini Atomize Nozzles</p> 	<p>-</p>	<p>Stainless steel (standard material or SUS316)</p>
<p>Mini Mist Nozzles</p> 	<p>1/8</p>	<p>Stainless steel (standard material : JIS SUS303)</p>
<p>Air Mist Nozzles</p> 	<p>1/8</p>	<p>Stainless steel (standard material : JIS SUS303)</p>

ATOMIZE NOZZLE FEATURES

Model	Features
Mini atomize nozzles	<ul style="list-style-type: none"> • Unobstructed flow passages, which minimize clogging. • Three part construction. • Easy to maintain. • Wide angle fullcone spray pattern.
Mini mist nozzles	<ul style="list-style-type: none"> • Compact and lightweight. • Wide angle flat spray pattern.
PV, PNV nozzles	<ul style="list-style-type: none"> • PV type can change spray pattern freely from fullcone to flat spray. • Non-drip feature can be provided by the automatic cylinder.

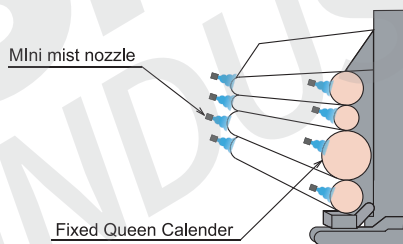
EXAMPLE OF USE

● Gate roll coater



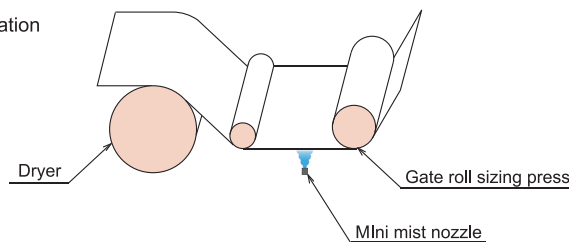
Available to keep roll clean constantly, when spraying roll edge.
Mini atomize nozzle or Flat atomizing nozzle are suitable.
Air jet nozzle can be used to remove droplet. (P17).

● Calender roll (Wear prevention of roll edge)



Using atomize nozzles are available in wear prevention of roll edge.

● Humidity regulation



Spray onto a dry part for humidity regulation.
Atomize nozzles are suitable.



FEATURES

- Available as a pressure spray set-up or siphon spray set-up.
- Simple structure and easy maintenance.
- Fine droplets and wide full cone pattern.
- Lowest flow available.
- Anti-clogging

APPLICATIONS

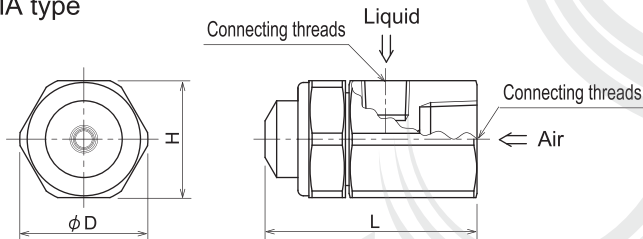
- Cleaning for gate roll, backing roll and size roll.
- Prevention of excessive "size agent" build up.
- Canvas chemical washing of dryer parts.
- Humidity regulation, Drying prevention.
- Using in lower flow.

MATERIAL

- Stainless steel (standard material or SUS316)

SHAPES AND DIMENSION

• MMA type



• Model and Model number representing

$$\text{MMA} - \frac{100\text{W}}{\text{Model number}}$$

NPT thread is also available

STANDARD TYPE MODEL NUMBER LIST

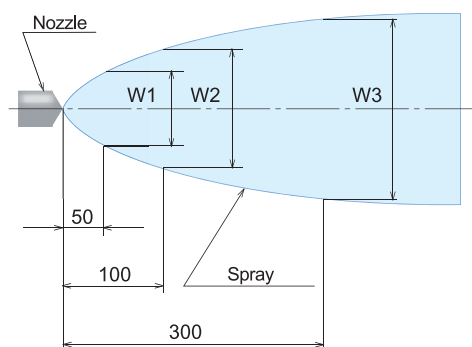
Model number	Minimum orifice diameter for liquid (mm)	Air flow rate (ℓ/min(Nor.)) (air pressure : 0.3MPa)	Water flow rate (mℓ/min)	Connecting threads		Weight (g)	Dimensions (mm)		
				Liquid	Air		D	H	L
50W	1.5	50	5~100	Rc 1/8	Rc 1/8	60	21	19	33
100W	2.0	100	10~200	Rc 1/8	Rc 1/4	80	23	21	38
200W	2.0	200	25~500	Rc 1/8	Rc 1/4	80	23	21	38
500W	2.5	500	50~1000	Rc 1/4	Rc 1/2	280	35	32	58
1000W	3.0	1000	100~2000	Rc 1/4	Rc 1/2	280	35	32	58

※• MMA 50W~100W : When using siphon system, above the flow rate will be supplied over 0.1MPa air pressure.

• MMA 200W~1000W : Using pressure set-up is available with the all the above flow rate.

• In case of using high viscosity. Please contact our sales representatives for more information.

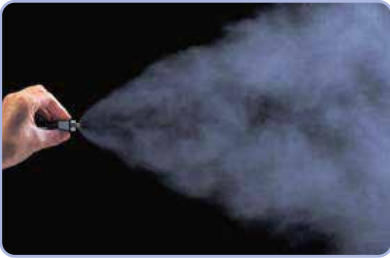
SPRAY WIDTH (AIR PRESSURE : 0.3 MPa, AT MINIMUM WATER FLOW RATE)



Model number	Spray width (mm)			
	W 1	W 2	W 3	
MMA	50W	25~30	50~55	110~130
	100W	30~35	55~60	130~150
	200W			
	500W	40~45	70~80	180~200
	1000W			

• Spray angle is approx. 30° at 0.3 MPa, will be wider less than 0.3 MPa as Air pressure.

• Air pressure of lower than 0.3 MPa, spray angle will be wider.



FEATURES

- Flow rate controllable within a wide range, from very small to relatively large.
- Compact and lightweight nozzles for connection in a limited space.
- Sprayed mist spreading over a large area due to a wide spray pattern.
- Quick-drying mist.
- Simple structure for resistance to clogging and for easy overhaul cleaning.

MATERIAL

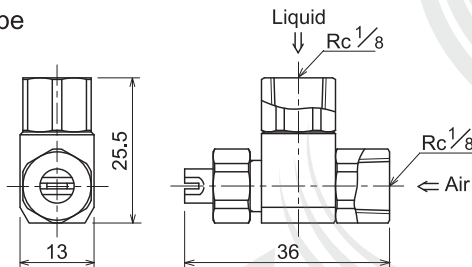
- Stainless steel (standard material : JIS SUS303)

APPLICATIONS

- Mist-washing for roll
- Moisturizing to paper

SHAPES AND DIMENSION

- Internai mixing type



Weight (g)

35

NPT thread is also available

MINI ATOMIZE NOZZLES

Model and Model number representing

KSMMS

Model

015115

Model number

A11W035

Model number of mixing body

STANDARD TYPE MODEL NUMBER LIST

Model	Model number	Model number of mixing body	Minimum orifice diameter for liquid (mm)	Air pressure (MPa)	Water flow rate (m ³ /min) and air flow rate (ℓ/min(Nor.)) at following water pressure (MPa)								Spray width (mm) at following water pressure (MPa) (Spray distance : 500 mm)		
					0.2		0.3		0.4		0.5		0.2	0.3	0.4
					Water	Air	Water	Air	Water	Air	Water	Air			
KSMMS	015115	A11W035	0.35	0.1	64	16	107	15	121	15	129	15	800	800	900
				0.2	68	27	94	26	112	25	125	25	700	800	900
				0.3	50	36	79	35	100	34	117	33	600	800	900
				0.4	27	46	60	45	85	44	104	43	600	700	900
				0.5	—	—	41	54	71	53	92	52	—	700	900
	027115	A15W05	0.5	0.1	182	28	228	27	258	26	284	25	800	900	900
				0.2	146	47	200	45	248	43	280	41	800	800	900
				0.3	102	65	168	63	222	61	259	59	700	800	900
				0.4	58	83	127	82	189	80	232	78	600	800	900
				0.5	—	—	92	97	158	96	207	95	—	800	900
	040115	A18W06	0.6	0.1	256	43	315	41	357	40	390	38	800	900	900
				0.2	220	69	290	66	350	64	388	62	800	900	900
				0.3	276	97	252	96	318	95	372	93	700	800	900
				0.4	132	123	213	123	283	121	345	119	600	800	900
				0.5	89	149	176	146	249	146	313	145	600	800	900

Note: Blanks indicate water spraying at a very low flow rate or air jet only.

Please refer to external mixing type at our general catalog E31.



MATERIAL

- Stainless steel (standard material : JIS SUS303)

SHAPES AND DIMENSION

● PV type (with automatic cylinder)

● PNV type

Model	Weight(g)
PV	350
PNV	280

※ Nozzles with no automatic cylinder are also available.

NPT thread is also available

AIR MIST NOZZLES

Model and Model number representing

PV

Model

- D


0.4

Model number

STANDARD TYPE MODEL NUMBER LIST

Model	Model number	Minimum orifice diameter for water (mm)	Water flow rate (ℓ/min) at following water pressure (MPa)						Air pressure (MPa)	Air flow rate (ℓ/min(Nor.))	Air flow rate for pattern generation (ℓ/min (Nor.)) (PV only)								
			0.01	0.02	0.03	0.04	0.05	0.06											
PV PNV	0.4	0.4	30	42	52	61	68	75	0.1	19	36								
									0.2	28	54								
									0.3	38	72								
									0.4	48	90								
									0.5	57	108								
									0.1	23	36								
	0.5	0.5	47	67	82	95	106	116	0.2	38	54								
									0.3	53	72								
									0.4	68	90								
									0.5	83	108								
									0.1	27	36								
									0.2	43	54								
	1.0	1.0	190	267	327	378	423	463	0.3	59	72								
									0.4	75	90								
									0.5	90	108								
									0.1	38	36								
									1.5	1.5	425	600	736	850	950	1040	0.2	56	54
																	0.3	76	72
0.4	95	90																	
0.5	113	108																	
0.1	47	36																	
0.2	66	54																	
2.0	2.0	755	1070	1310	1510	1690	1850	0.3	87	72									
								0.4	107	90									
								0.5	127	108									

Note: When a PV type is used to generate a flat spray pattern, its air flow rate is determined as the sum of the air flow rate for pattern generation and the air flow rate shown above.
 PV type is available with spray angle (20~ 90°) as full cone and flat spray pattern. PNV type is available with spray angle 20° as fullcone spray pattern.

MODEL	THREADS	MATERIAL
<p>needle jet nozzles</p> 	<p>1/4, 3/8</p>	<ul style="list-style-type: none"> - Stainless steel (standard material : JIS SUS303) - Brass - Aluminum
	<p>1/4</p>	<ul style="list-style-type: none"> - Stainless steel (standard material : JIS SUS304) - Aluminum - ABS resin



FEATURES

- Simple structure and anti-clogging.
- Divergent internal structure allows supersonic blow.
- Tapered nose shape minimizes turbulent flow and reduction in rate.

APPLICATIONS

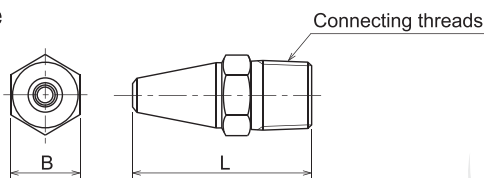
- Air purging for roll edge.
- Blowing away paper dust.

MATERIAL

- Stainless steel (standard material : JIS SUS303)
- Brass
- Aluminum

SHAPES AND DIMENSION

● KSV type



Model	Dimension (mm)		Connecting threads	Weight (g)
	B	L		
1/4 KSV...C	14	34	R 1/4	33
3/8 KSV...C	17	44	R 3/8	55

We can also provide for pipe attachment type. (φ6 and φ8)
For more information, please contact our sales representatives.

STANDARD TYPE MODEL NUMBER LIST

● : Model availability

Connecting threads	Model			Model number	Orifice diameter (mm)	Air flow rate (ℓ/min(Nor.)) at following pressure (MPa)						
	KSV	KBV	KAV			0.1	0.2	0.3	0.4	0.5	0.6	0.7
1/4		●	●	0300	1.75	48	72	72	120	143	167	191
		●	●	0400	2.04	64	96	96	159	191	223	254
		●	●	0500	2.26	80	120	120	199	239	278	318
		●	●	0700	2.68	113	168	168	279	334	390	445
		●	●	1000	3.22	161	240	240	398	478	557	636
3/8	●	●	●	1400	3.80	225	336	447	558	669	780	890
	●	●	●	2000	4.56	322	480	639	797	955	1110	1270

※ Spray angle : about 16°

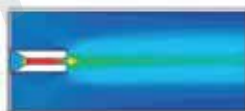
Performance data

Velocity distribution analysis result

Analysis condition : Minimum passage diameter=φ6 mm, Pressure=0.1 MPa,
Nozzle length=approx. 50 mm

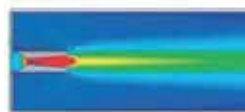
Pipes

Decaying speed at nozzle outlet.



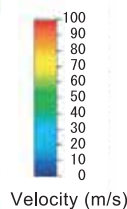
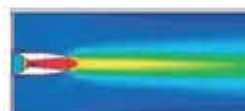
KBV (conventional type)

The less decaying speed than pipe type.

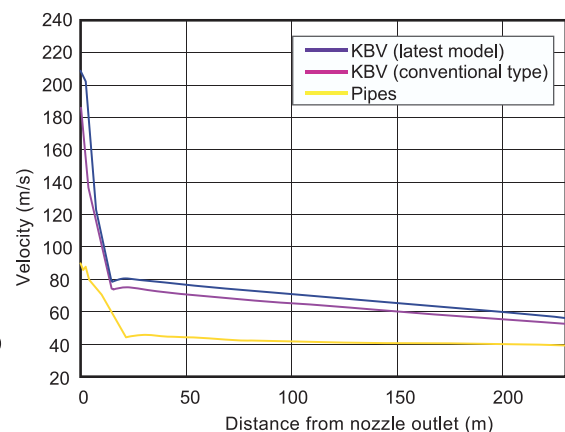


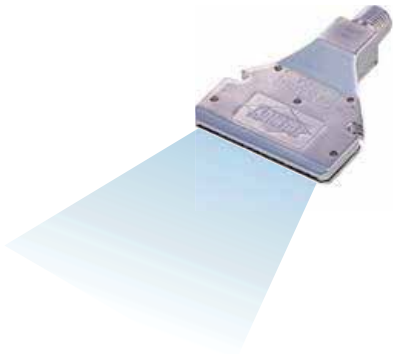
KBV (latest model)

Allow for the most rapid blowing.



Flow velocity of nozzle outlet





FEATURES

- Uniform impact force.
- Wide blow width with a single nozzle.
- Low noise.

APPLICATIONS

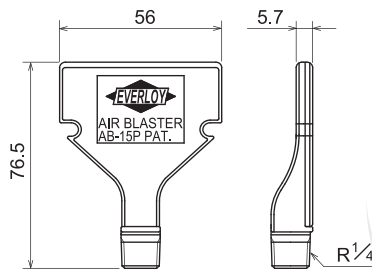
- Paper guide.
- Blowing away paper dust.
- Air curtain.
- Removal of drip.

MATERIAL

- Stainless steel (standard material : JIS SUS304)
- Aluminum
- ABS resin

SHAPES AND DIMENSION

● AB type



Model	Material	Weight (g)	Heatproof temperature (°C)	Maximum service pressure (MPa)
AB - 15P	ABS resin	16	80	0.7
AB - 15A	Aluminum	59	200	0.4
AB - 15S	Stainless steel	165	200	0.4

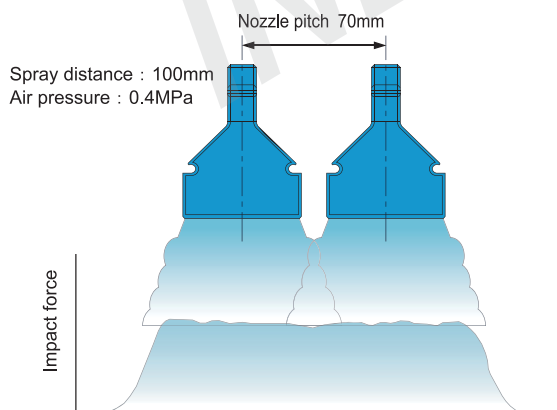
NPT thread is also available

STANDARD TYPE MODEL NUMBER LIST

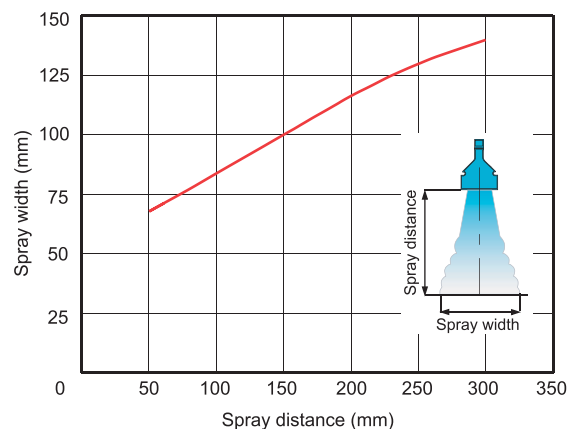
Model	Model number	Minimum orifice diameter (mm)	Air flow rate (ℓ/min(Nor.)) at following pressure (MPa)					
			0.1	0.2	0.3	0.4	0.5	0.7
AB	15	0.9	230	350	470	590	710	950

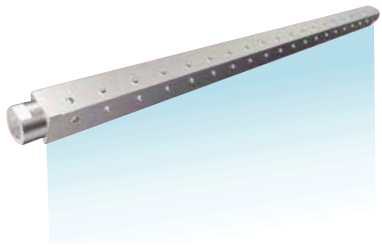
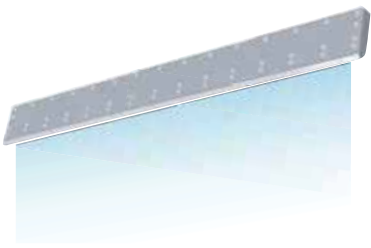


Performance data

Impact force distribution in overlapped application



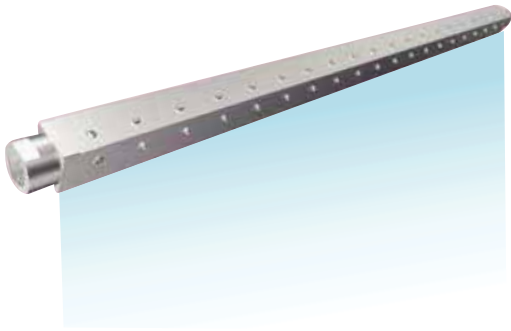
Spray width characteristic curve



MODEL	THREADS	MATERIAL
<p>Slit Air Nozzles - Pipe type</p> 	-	Stainless steel (standard material : JIS SUS304)
<p>Slit Air Nozzles - Plate type</p> 	-	<ul style="list-style-type: none"> - Stainless steel (standard material : JIS SUS304) - Aluminum alloy, Plastics (H-PVC, etc.)
<p>Mist Header</p> 	-	Stainless steel (standard material : JIS SUS304)
<p>Brush Header</p> 	-	<ul style="list-style-type: none"> - Header : 304 Stainless steel - Brush : Plastics (PP) or Stainless steel

SLIT NOZZLE 2 PIPE TYPE

Slit Air Nozzles - Pipe type



FEATURES

- Compatibility with air from blower and compressor.
- Available in producing an excellent uniform air blow.
- Slit aperture from 0.15 to several millimeters.
- Overall length extendable to more than 2 m.
- Weight saving.

APPLICATIONS

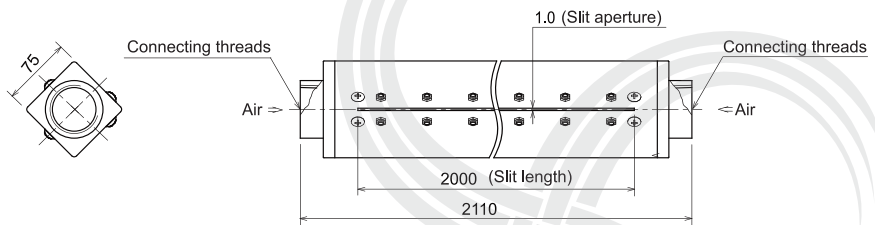
- Air curtain
- Air purging for roll

MATERIAL

- Stainless steel (standard material : JIS SUS304)

SHAPES AND DIMENSION

- Model number : KAK - 2000L 1.0 t



SLIT AIR NOZZLES - PIPE TYPE

Model and Model number representing

K A K - 2000 L 1.0 T

Slit length Slit aperture

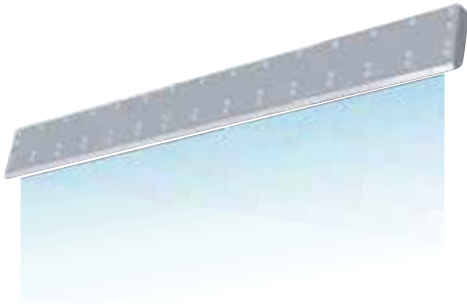
Performance data (Calculated value)

Slit length (mm)	Slit aperture (mm)	Air flow rate (m ³ /h(Nor.)) at following pressure (MPa)					
		0.005	0.01	0.02	0.03	0.04	0.05
500	0.15	23	33	46	57	66	73
	0.3	46	66	93	114	131	147
	0.5	77	110	155	190	219	245
	0.8	124	175	248	303	350	392
	1.0	155	219	310	379	438	490
1000	0.15	46	66	93	114	131	147
	0.3	93	131	186	328	263	294
	0.5	155	219	310	379	438	490
	0.8	248	350	496	607	701	784
	1.0	310	438	619	759	876	979
1500	0.15	70	99	136	171	197	220
	0.3	139	197	279	341	394	441
	0.5	232	329	465	569	657	735
	0.8	372	526	743	910	1051	1175
	1.0	465	657	919	1138	1314	1469
2000	0.15	93	131	186	228	263	294
	0.3	186	263	372	455	526	588
	0.5	310	438	619	759	879	979
	0.8	496	701	991	1214	1402	1567
	1.0	619	876	1239	1517	1752	1969
2400	0.15	111	158	223	273	315	353
	0.3	223	315	446	546	631	705
	0.5	372	526	743	910	1051	1175
	0.8	594	841	1189	1457	1682	1880
	1.0	743	1051	1487	1821	2102	2351

※ Flow rates are just for references as they depend on piping configuration.

SLIT NOZZLE 2 PIPE TYPE

Slit Air Nozzles - Plate type



FEATURES

- Remarkable uniformity over the entire width of spray
- Suitable for compressed air.
- Available in removing residue water.
- Paper thin slit ranging from 0.05 to 0.3 mm.
- Available in slit length over 3 m.

APPLICATIONS

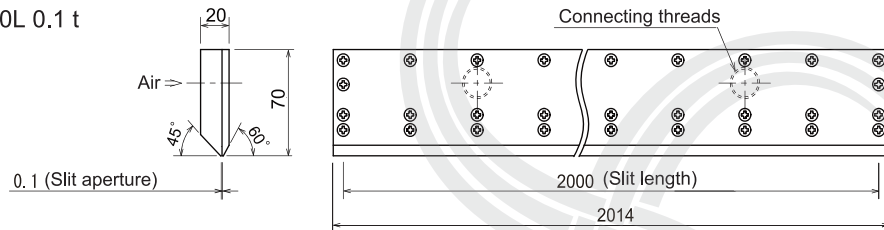
- Air curtain
- Air purging for roll

MATERIAL

- Stainless steel (standard material : JIS SUS304)
- Aluminum alloy, Plastics (H-PVC, etc.)

SHAPES AND DIMENSION

- Model number : AK - 2000L 0.1 t



SLIT NOZZLE 2 PIPE TYPE

Mist Header

FEATURES

- Two fluid nozzle
- Available in easy mounting of piping area
- Available in producing a excellent uniform flow and impact force

APPLICATIONS

- Roll cleaning
- Canvas washing with mist spray

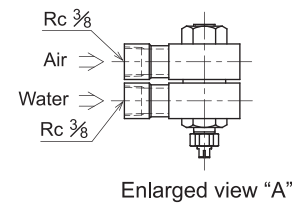
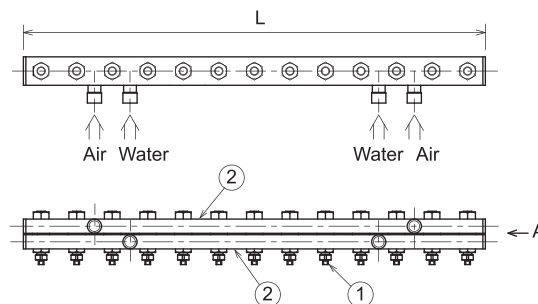
MATERIAL

- Stainless steel (standard material : JIS SUS304)

SHAPES AND DIMENSION

- KSMMS WP type

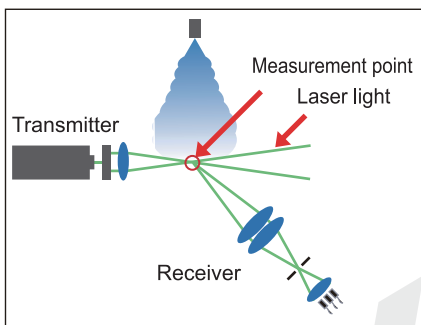
No.	Part name
1	Nozzle
2	Header



NPT thread is also available

Kyoritsu Gokin conducts, various fluid tests and experiments. Typical test apparatuses include the PDPA system for the measurement of particle size and flow velocity, the particle size measurement system incorporating image analysis, the flow distribution measurement system, and the impact force distribution tester. Test results are utilized as fundamental data to improve the existing lines and to establish new technologies. Using these test apparatuses, we conduct tests and provide test results to meet your specific needs.

Phase Doppler Particle Analyzer (PDPA)



- This system is a particle analyzer making use of the phase doppler principle of the laser doppler system to measure the velocity and size of a particle simultaneously. The phase doppler principle is as follows. A lens placed on the transmitter allows two divided laser beams to cross each other. As particles pass the intersection, scattered rays form fringes. The receiver detects these fringes. PDPA (using the phase doppler method) measures the particle size of a continuous spray without interference with the spray. It is capable of sampling many particles instantaneously and has become dominant in particle size analysis. PDPA is suitable for the measurement of relatively small particles.

Flow distribution measurement system



- This system measures the distribution of spray flow density using an acrylic container grid, on which a liquid is sprayed, and the amounts of deposits are measured. It is also capable of measurement results in a flow distribution graph.

Impact force distribution tester



- This system determines the impact force distribution of a spray by running a pressure sensor underneath the spray. It is also capable of producing measurement results in an impact force distribution graph.



FEATURES

- Continuous operation is possible in cleaning without spraying
- Up to 60° is available as spray angle.

APPLICATIONS

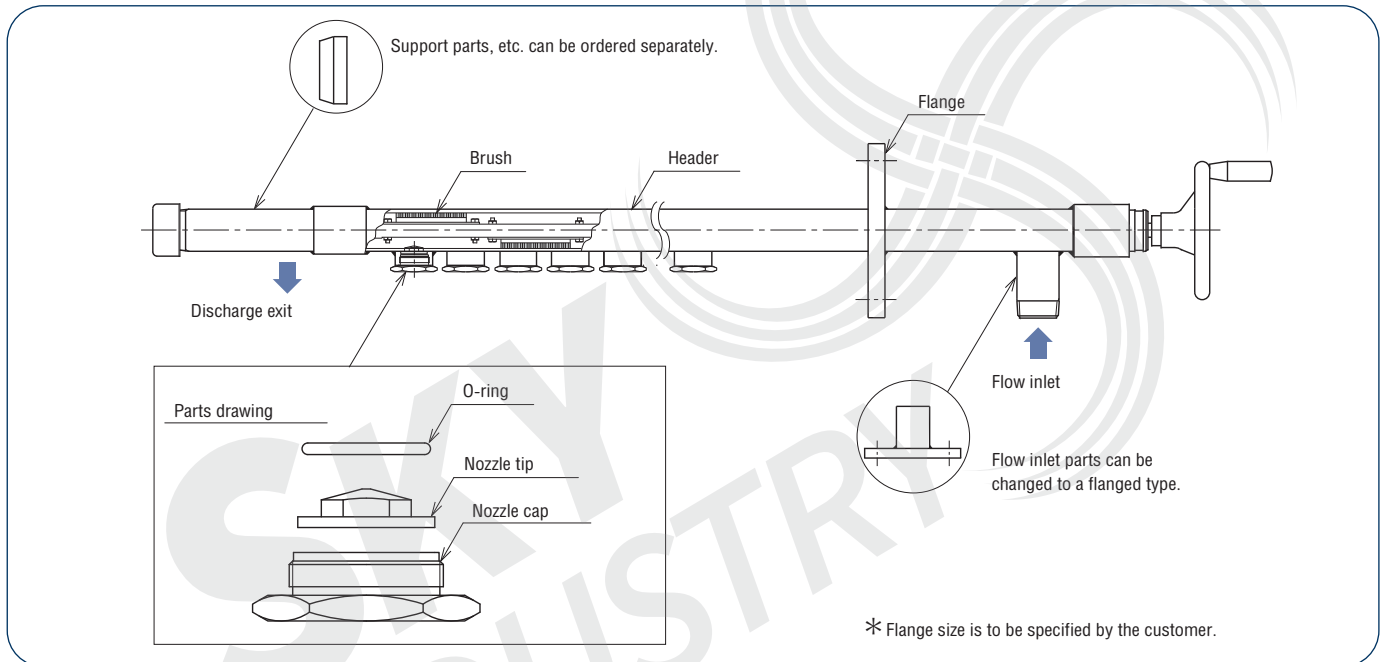
- Washing of galvanized sheets for steel-making.
- Shower pipe for paper-making.

MATERIAL

- Header : 304 Stainless steel
- Brush : Plastics (PP) or Stainless steel



SHAPES AND DIMENSION



SHAPES AND DIMENSION

Ordering specifications

Please be selected and informed as follows.

- Pipe size : 40A, 50A (JIS standard)
- Maximum flow rate per pipe : 400 L/min (pipe size : 40A)
600 L/min (pipe size : 50A)
- Maximum header length : 4 m
- Maximum flow rate per nozzle : 30 L/min (at 0.3 MPa)
- Spray angle of each nozzle : 0° , 30° , 45° , 60°
- Minimum nozzle pitch : 60 mm

* We can design and manufacture brush headers according to your operating conditions.
(Nozzle flow rates, angles, nozzle pitches, etc.)



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