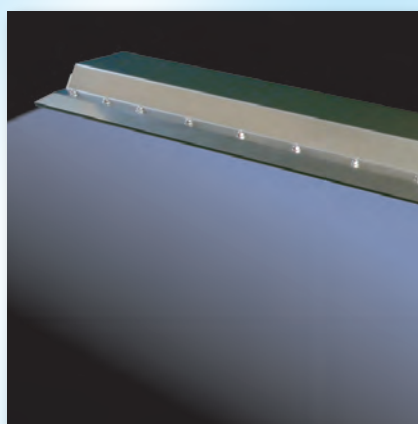


17AN



IKEUCHI AIR NOZZLE CATALOG



“The Fog Engineers”
H. IKEUCHI & Co., LTD.

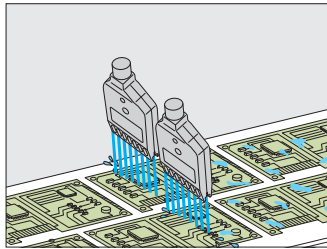
AIR NOZZLES provide solutions for problems in manufacturing plants.

There are many areas in which air nozzles can make a difference; including productivity, product quality, cost cutting, noise reduction, and more.

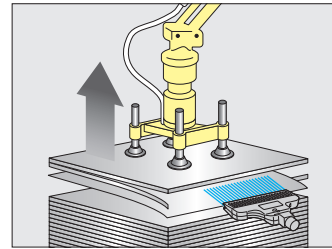
IKEUCHI, the Fog Engineers, to meet any customer demand, provides an extensive variety of products, from compact nozzles to entire systems, for applications from narrow spaces to large-scale lines.

Usage examples

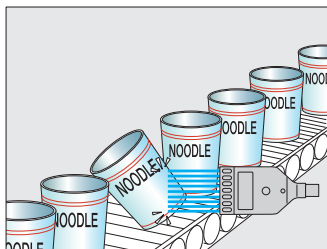
■ Blow-off drying after washing



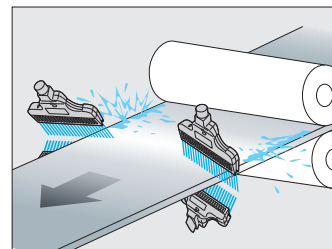
■ Detachment (Preventing double sheet feeding for steel plates)



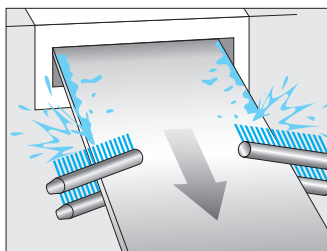
■ Rejection of inferior products



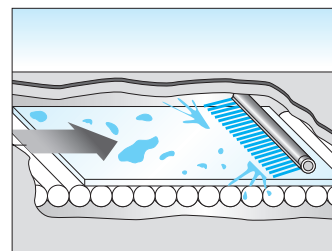
■ Blowing off of dust under high temperatures



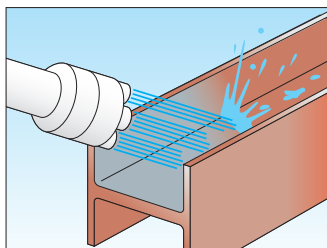
■ Blowing off of liquid (Edge wiper for steel surface treatment)



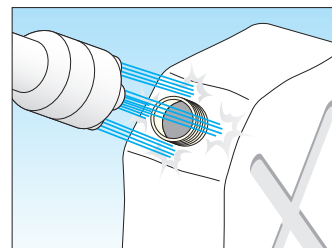
■ Narrow space



■ Blowing off of water from shaped steel



■ Pinpoint cooling for molded plastic



Contents

Air Booster Nozzles	<i>TAIFUJet</i> seriesp.3–11
	EJA seriesp.12–13
Multi-orifice Flat Spray Nozzles	HF seriesp.14
Flat Spray Nozzles	VZ seriesp.15
	SAP seriesp.16
Solid Stream Jet	CCP-A seriesp.16
Slit Nozzles (Air Curtain)	SLNHA-H seriesp.17
	SLNHA-NA seriesp.18–19
	SLNB seriesp.20
Special Fittings	Universal Ball Joints UT seriesp.21
	Universal Joints WUT seriesp.22
	Flexible Tube FT seriesp.22

Description for thread size and type (pipe connection size)

Threads noted in this catalog are tapered pipe threads (PT) unless otherwise specified.

"M" denotes male thread and "F" denotes female thread.

(Example)

1/4M: 1/4" male taper pipe thread, R1/4

1/4F: 1/4" female taper pipe thread, Rc1/4

Materials/ Specifications

- Materials are described as follows in this catalog.
- Air consumption (air volume) specified in this catalog is for reference only, not guaranteed.

	Description	Name of materials		Description	Name of materials
Plastic resin	ABS	Acrylonitrile butadiene styrene	Metal	S303	Stainless steel 303
	FRPP	Glass-fiber reinforced polypropylene		S304	Stainless steel 304
	HTPVC	Heat-treated polyvinyl chloride		S316	Stainless steel 316
	POM	Polyacetal		S316L	Stainless steel 316L
	PP	Polypropylene		B	Brass (C3604)
	PPS	Polyphenylene sulfide		Rubber	EPDM
PTFE	Polytetrafluoroethylene	FKM	Tetrafluoroethylene-propylene rubber		
PVC	Polyvinyl chloride	NBR	Nitrile rubber		

• Specifications of the products and contents of this catalog are subject to change without prior notice for purpose of product improvement.

Air Booster Nozzles

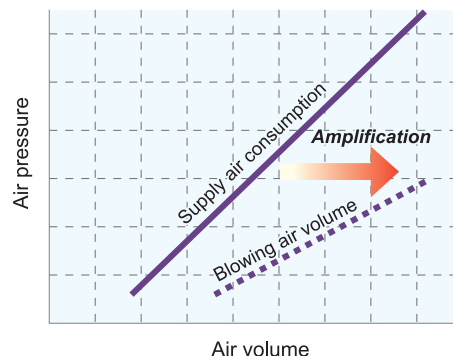
TAIFUJet® series

The special configuration of *TAIFUJet*® takes in surrounding air and boosts powerful air flow.

Designed to have a uniform and efficient air flow, *TAIFUJet*® also excels at producing a quiet and solid stream of high impact air.

Save on Air Cost / High Spray Impact

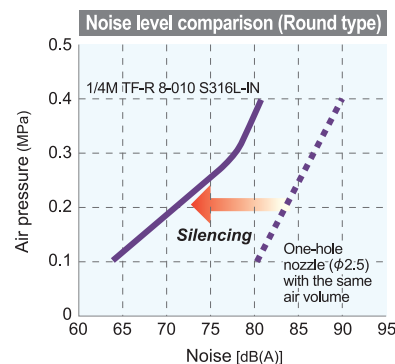
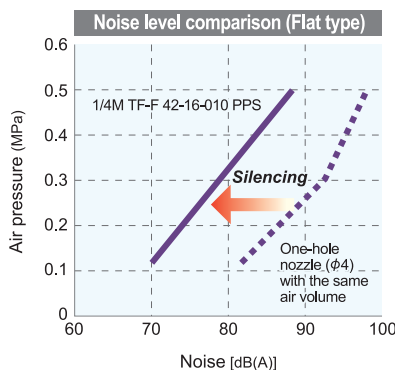
TAIFUJet®, uniquely designed to take in surrounding air and multiply air flow, produces a powerful air blow with high spray impact and minimal air consumption.



Low Noise Level (Quiet Operation)

TAIFUJet® is designed to have minimal noise levels. Available in Flat type and Round type, depending on your usage.

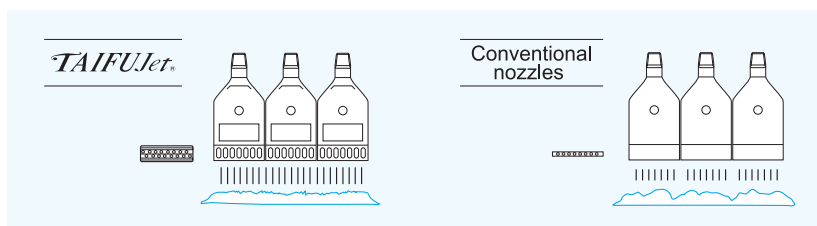
Spray condition
 Background noise: 58 dB(A)
 Spray direction: Horizontal
 Spray height: 1 m
 Measured at 1 m in front of nozzle



Uniform Spray Impact

To achieve the most efficient air flow, *TAIFUJet*® is designed with a staggered alignment of spray orifices and inlet holes, which results in uniform spray impact in spray width direction*.

Spray impact is stable even at a long distance. *Flat type utilizing compressor air only



For compressors

Flat Type
Plastic

FEATURES

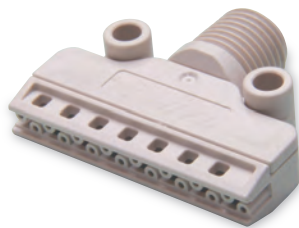
- Uniform distribution resulting from the unique flat design.
- Made of high chemical/heat resistant PPS.
- Designed to have minimal noise level.

Flat Type



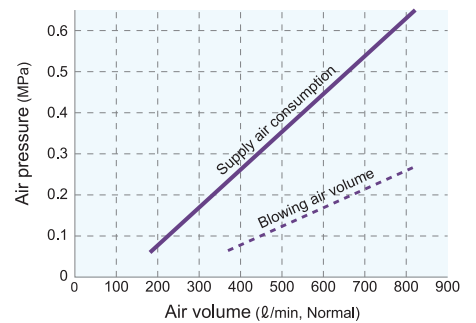
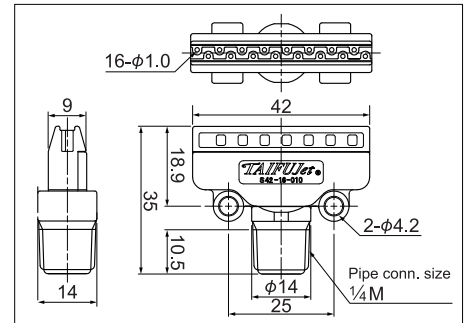
42 mm wide
Short type

- ▶ Compact, much shorter body (35 mm long) compared to the conventional 42 mm wide type.
- ▶ Uniform distribution resulting from the unique flat design.



Material: PPS
Mass: 9 g
Max. air pressure: 0.7 MPa (100 psi)
Max. allowable temperature: 120°C (240°F)

Dimensions



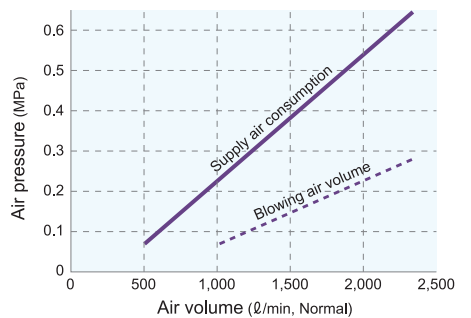
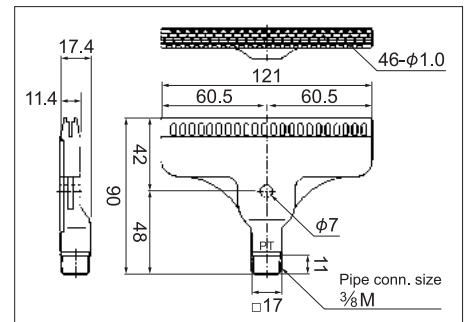
121 mm wide
Broad type

- ▶ Powerful air nozzle dramatically multiplies the supplied air volume.
- ▶ Spray width is three times broader than our conventional flat type (42 mm wide).



Material: PPS
Mass: 62 g
Max. air pressure: 0.7 MPa (100 psi)
Max. allowable temperature: 120°C (240°F)

Dimensions



How to order

Please inquire or order using these product codes.

① 42 mm wide, short type

1/4M (PT) TF-FS 42-16-010 PPS

Thread type
■ (PT) ■ (NPT)

② 121 mm wide, broad type

3/8M (PT) TF-F 121-46-010 PPS

Thread type
■ (PT) ■ (NPT)

Air Booster Nozzles

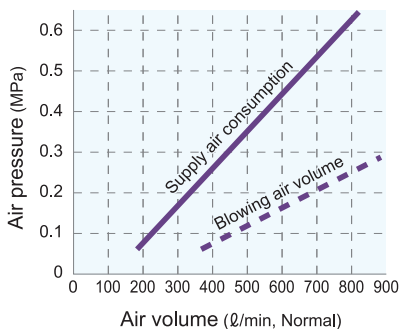
42 mm wide

- ▶ Uniform distribution resulting from the unique flat design.
- ▶ 42 mm wide standard flat air nozzle with $\phi 1.0$ mm orifice.

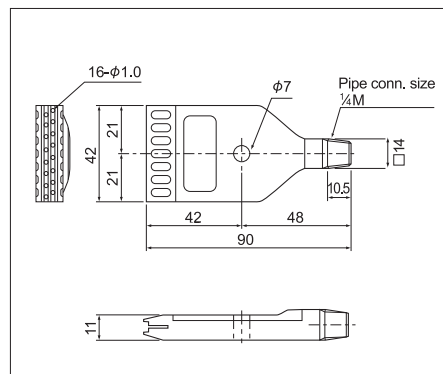
Flat Type



Material: PPS
 Mass: 30 g
 Max. air pressure: 0.7 MPa (100 psi)
 Max. allowable temperature: 120°C (240°F)



■ Dimensions



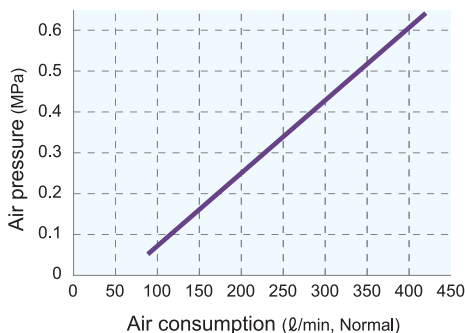
24 mm wide
 Compact type

- ▶ Ultra-compact air nozzle (24 mm wide, 30 mm long) with equal high spray impact and minimal noise level.
- ▶ Compact enough to install in a narrow space, such as for blow-off drying in corners.

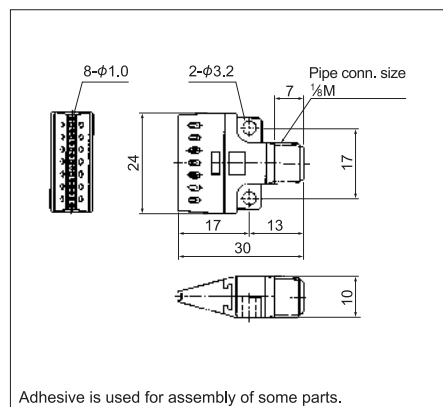
Flat Type



Material: PPS
 Mass: 4 g
 Max. air pressure: 0.7 MPa (100 psi)
 Max. allowable temperature: 120°C (240°F)



■ Dimensions



How to order

Please inquire or order for a specific nozzle using this coding system.

① 42 mm wide type

1/4M (PT) TF-F 42-16-010 PPS

Thread type
 ■ (PT)
 ■ (NPT)

② 24 mm wide, compact type

1/8M TF-F 24-8-010 PPS-IN

For compressors

FEATURES

- Powerful air nozzle dramatically multiplies the supplied air volume.
- Uniform distribution resulting from the unique flat design.

Flat Type



Flat Type
Stainless Steel

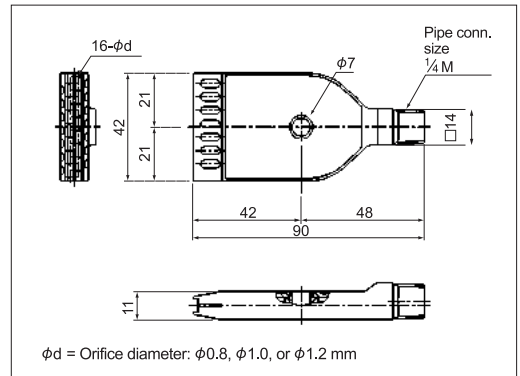
42 mm wide

- ▶ 42 mm wide standard flat air nozzle, available in three orifice diameters: $\phi 0.8$, $\phi 1.0$, or $\phi 1.2$ mm.
- ▶ Made of stainless steel with high resistance to shock and heat.

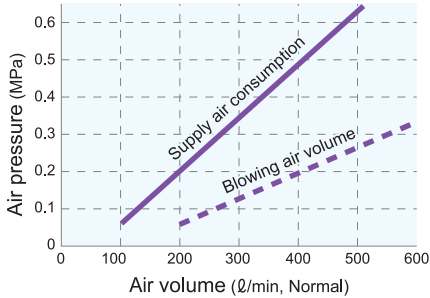


Material: S316L equivalent
Mass: 144 g
Max. air pressure: 1.0 MPa (140 psi)
Max. allowable temperature: 400°C (750°F)

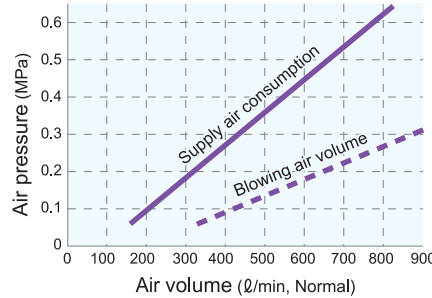
Dimensions



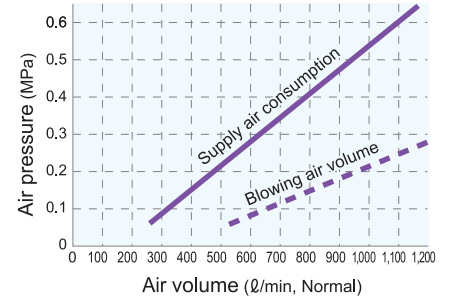
【Orifice diameter $\phi 0.8$ 】



【Orifice diameter $\phi 1.0$ 】



【Orifice diameter $\phi 1.2$ 】



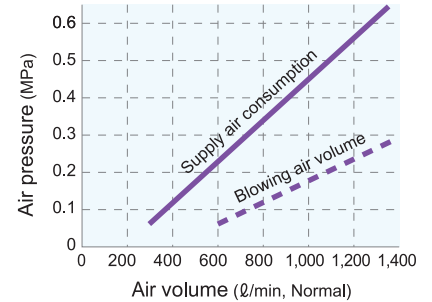
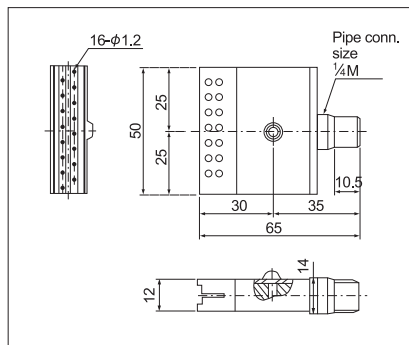
50 mm wide

- ▶ Compact and wider flat air nozzle, 50 mm wide and 65 mm long.



Material: S304
Mass: 140 g
Max. air pressure: 1.0 MPa (140 psi)
Max. allowable temperature: 400°C (750°F)

Dimensions



How to order

Please inquire or order for a specific nozzle using this coding system.

① 42 mm wide type <Example> 1/4M (PT) TF-F 42-16-010 S316L-IN

1/4M (PT) TF-F 42-16-010 S316L-IN

Thread type
■ (PT)
■ (NPT)

Orifice diameter code
■ 008 ($\phi 0.8$)
■ 010 ($\phi 1.0$)
■ 012 ($\phi 1.2$)

② 50 mm wide type

1/4M TF-F 50-16-012 S304

Air Booster Nozzles

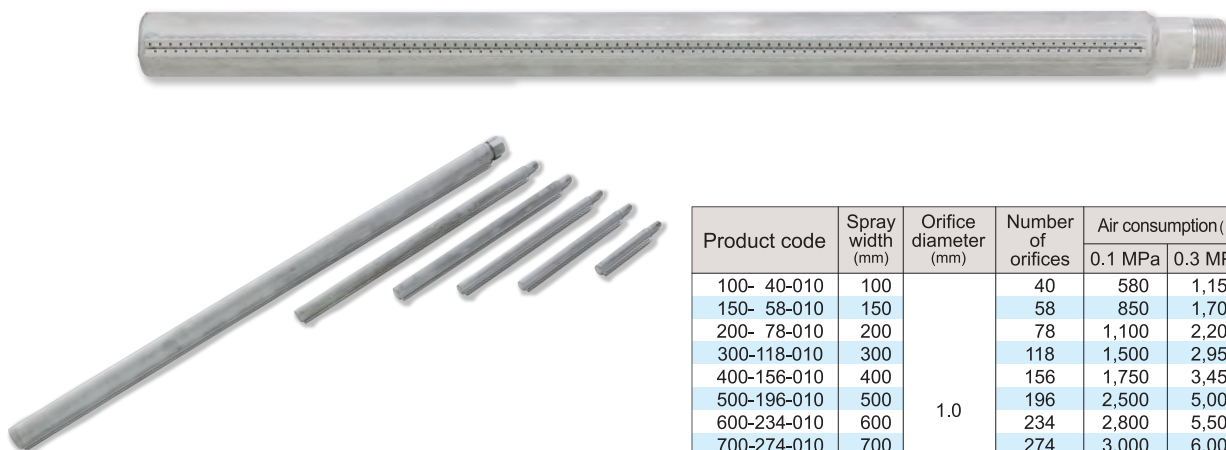
For compressors

Long Flat Type
Stainless Steel

FEATURES

- Long flat type designed for blowing air over greater widths.
- 13 spray width types, 100 mm–1,400 mm, are available.
- Space-saving design, suitable for narrow places.
- Air inlet connection at both ends available for size 500 mm and longer, yields more space savings.
- Made of stainless steel with high resistance to shock and heat.

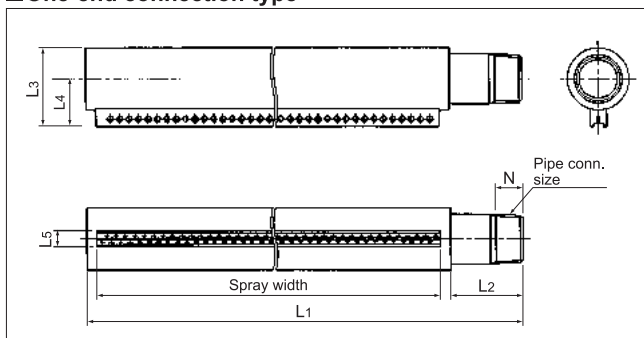
Flat Type



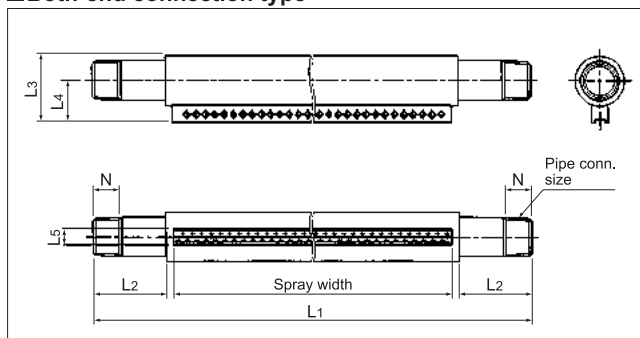
Material: S304
Max. air pressure: 1.0 MPa (140 psi)
Max. allowable temperature: 400°C (750°F)

Product code	Spray width (mm)	Orifice diameter (mm)	Number of orifices	Air consumption (ℓ/min, Normal)		
				0.1 MPa	0.3 MPa	0.5 MPa
100- 40-010	100	1.0	40	580	1,150	1,720
150- 58-010	150		58	850	1,700	2,550
200- 78-010	200		78	1,100	2,200	3,300
300-118-010	300		118	1,500	2,950	4,400
400-156-010	400		156	1,750	3,450	5,150
500-196-010	500		196	2,500	5,000	7,400
600-234-010	600		234	2,800	5,500	8,200
700-274-010	700		274	3,000	6,000	9,000
800-312-010	800		312	4,100	8,100	12,200
900-352-010	900		352	4,300	8,600	12,900
1000-390-010	1,000		390	4,800	9,400	14,000
1200-468-010	1,200		468	5,200	10,400	15,500
1400-546-010	1,400		546	7,500	15,000	22,500

One-end connection type



Both-end connection type



Dimensions and mass

Product code	Pipe conn. size	Outer dimensions (mm)						Mass (g)
		L1	L2	L3	L4	L5	N	
100- 40-010	1/2M	156	40	37	23	9	14	360
150- 58-010		203	40	37	23	9	14	500
200- 78-010		254	40	37	23	9	14	640
300-118-010		357	40	37	23	9	14	850
400-156-010	455	40	37	23	9	14	1,100	
500-196-010	3/4M	557	40	44	27	9	15	2,000
600-234-010		655	40	44	27	9	15	2,400
700-274-010		758	40	44	27	9	15	2,800
800-312-010	1M	856	40	52	31	9	18	3,200
900-352-010		959	40	52	31	9	18	5,100
1000-390-010		1,056	40	52	31	9	18	5,600
1200-468-010		1,257	40	52	31	9	18	6,700
1400-546-010		1,457	40	70	40	9	20	13,800

Dimensions and mass

Product code	Pipe conn. size*	Outer dimensions (mm)						Mass (g)
		L1	L2	L3	L4	L5	N	
500-196-010	2-1/2M	597	40	37	23	9	14	1,750
600-234-010		695	40	37	23	9	14	2,050
700-274-010		798	40	37	23	9	14	2,400
800-312-010	2-3/4M	896	40	44	27	9	15	3,250
900-352-010		999	40	44	27	9	15	3,650
1000-390-010		1,096	40	44	27	9	15	4,000
1200-468-010		1,297	40	44	27	9	15	4,750
1400-546-010	2-1M	1,497	40	52	31	9	18	8,800

*For both-end connection type, pipe connection size is indicated as "the number of inlets" - "thread size".

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> 3/4M TF-PF 500-196-010 S304

Pipe conn. size TF - PF **Product code** S304

For compressors

Round Type

FEATURES

- High impact solid stream of air blown from eight holes.
- Standard round type air nozzle for high-impact, pinpoint blowing.
- Compact design, lightweight.
- Quiet operation with noise level reduced by more than 10 dB (A) compared to conventional one-hole air nozzle.
- For applications which require high spray impact air blow into gaps and narrow spaces (pipes, etc.).

Round Type



【Spray pattern】

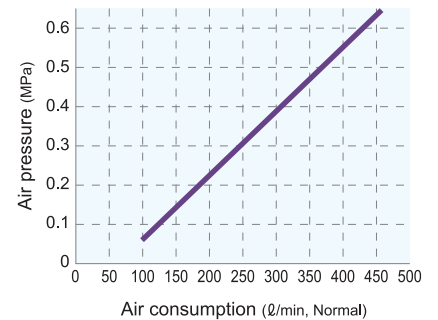
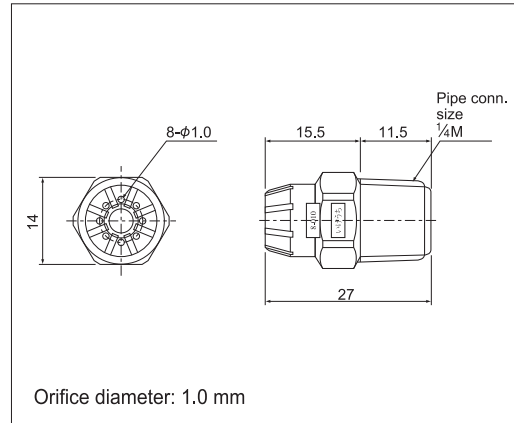
Plastic

► Affordable, made of PP.



Material: PP
 Mass: 2 g
 Max. air pressure: 0.7 MPa (100 psi)
 Max. allowable temperature: 60°C (140°F)

Dimensions



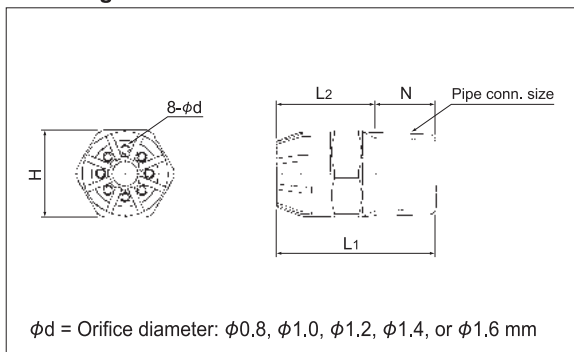
Stainless Steel

- Made of stainless steel S316L with high resistance to shock, heat and chemicals.
- Two pipe connection size types, 1/8M and 1/4M, and five orifice diameter types, φ0.8 mm–φ1.6 mm, are available.
- Use in air with large amounts of foreign matter is possible.



Material: S316L equivalent
 Max. air pressure: 1.0 MPa (140 psi)
 Max. allowable temperature: 400°C (750°F)

Drawing



Orifice diameter code	Pipe conn. size		Orifice diameter (mm)	Air consumption (ℓ/min, Normal)		
	1/8M	1/4M		0.1 MPa	0.3 MPa	0.5 MPa
8-008	○	—	0.8	80	155	235
8-010	○	○	1.0	125	245	365
8-012	○	○	1.2	180	360	540
8-014	○	○	1.4	240	480	720
8-016	—	○	1.6	320	630	940

"○" shows availability of the item.
 Note: Surface gloss may vary depending on nozzle size.

Dimensions and mass

Pipe conn. size	Orifice diameter (mm)				Mass (g)
	L1	L2	H	N	
1/8M	20	13	12	7	7
1/4M	25	15.5	14	9.5	12

How to order

Please inquire or order for a specific nozzle using this coding system.

① Plastic

1/4M TF-R 8-010 PP-IN

② Stainless steel

<Example> 1/8M TF-R 8-010 S316L-IN

1/8M TF-R 8-010 S316L-IN

Pipe connection size

- 1/8M
- 1/4M

Orifice diameter code

- 8-008 ■ 8-012 ■ 8-016
- 8-010 ■ 8-014

Air Booster Nozzles

For compressors

Cluster Header
3-Cluster Header

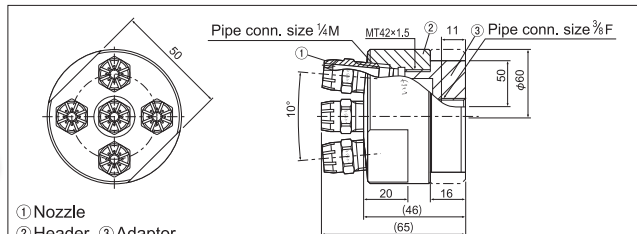
FEATURES

- Header with a cluster of multiple round-type stainless steel air nozzles.
- The unit is made of a cluster of nozzles. One cluster can be equipped with 4, 5, or 7 nozzles upon request.
- Also available is the multiple-nozzle triple cluster type, consisting of three clusters of multiple-nozzles in one unit, for application of stronger power.

Cluster header

▶ Header with a cluster of 5 round-type stainless steel air nozzles.

■ Dimensions



- ① Nozzle
② Header ③ Adaptor

- ① = 1/4M round-type stainless steel air nozzles
- Total air volume = Air volume for 1 pc. of round-type stainless steel air nozzle x the number of nozzles
- Available with 4 pcs., 5 pcs., or 7 pcs. of nozzles mounted
- Inquire with us for the light-weight type (header and adaptor made of aluminum A6061).

Sealing materials are used for assembly of some parts.

Triple cluster header

▶ Triple cluster header includes 3 clusters each equipped with 7 round-type stainless steel air nozzles.



For details, please inquire with us.

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> 3/8F TF-M5R 8-010 S303

3/8F TF-M5R 8-010 S303

Orifice diameter code*

■ 8-010 ■ 8-012 ■ 8-014 ■ 8-016

* For details of the orifice diameter code, please refer to round-type stainless steel air nozzles on page 8.

Air Blow Gun with TAIFUJet® Air duster gun unit



Materials:
[Nozzle] PP, PPS
[Gun] PPS, POM, etc.

Approx. air volume (when flow regulating valve is set Max.)

- Round type nozzle (TF-R-8-010)
: 180 L/min, Normal at 0.2 MPa air pressure
- Compact flat type nozzle (TF-F24-8-010)
: 170 L/min, Normal at 0.2 MPa air pressure
- Flat type nozzle (TF-F42-16-010)
: 340 L/min, Normal at 0.2 MPa air pressure

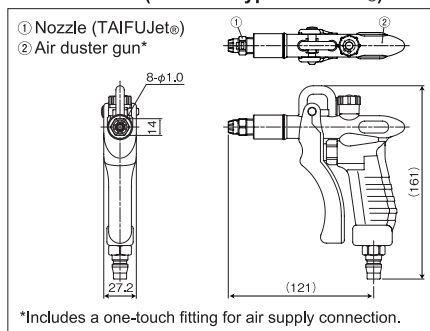
For compressors

FEATURES

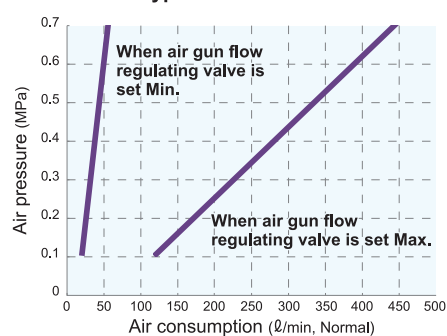
- Easier handling with air duster gun.
- Three types available.
- Air capacity adjustability (as standard equipment)

Air Blow Gun

■ Dimensions (w/ round-type TAIFUJet®)



[Round type nozzle + Gun]



How to order

Please inquire or order for a specific nozzle using these product codes.

Round type nozzle + Gun **1/4MTF-R-8-010PP-IN + Air duster TD-30H**

Compact flat type nozzle + Gun **1/8MTF-F24-8-010PPS-IN + Air duster TD-30H**

Flat type nozzle + Gun **1/4MTF-F42-16-010PPS + Air duster TD-30H**

For blowers

Flat Type

FEATURES

- Air nozzle with a 42 mm wide even jet.
- Blower air nozzles, **reducing energy cost to one-third** of that for compressed air driven nozzles.
- Unique design combining air-amplification, even air flow distribution, and low-noise capabilities.

Flat Type



Plastic TF-BF



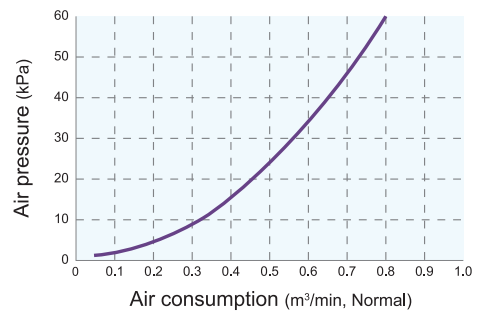
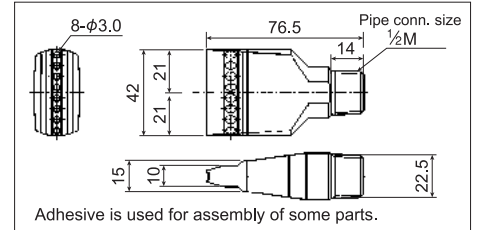
Material: ABS
 Mass: 26 g
 Max. air pressure: 100 kPa (14 psi)
 Max. allowable temperature: 80°C (170°F)

Metal TF-BF



Material: Aluminum A5052
 Mass: 65 g
 Max. air pressure: 100 kPa (14 psi)
 Max. allowable temperature: 316°C (600°F)

Dimensions



For blowers

Round Type

FEATURES

- Blower air nozzles, **reducing energy cost to one-third** of that for compressed air driven nozzles.
- Unique design combining air-amplification, even air flow distribution, and low-noise capabilities.

Round Type



Plastic TF-BR



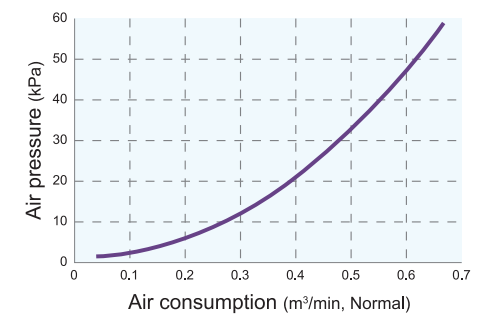
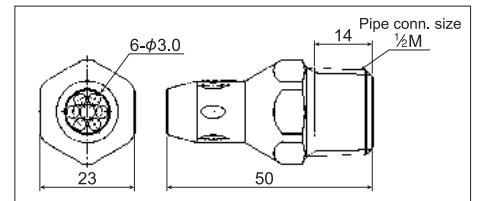
Material: ABS
 Mass: 8 g
 Max. air pressure: 100 kPa (14 psi)
 Max. allowable temperature: 80°C (170°F)

Metal TF-BR



Material: Aluminum A5052
 Mass: 20 g
 Max. air pressure: 100 kPa (14 psi)
 Max. allowable temperature: 400°C (750°F)

Dimensions



► Air nozzle with pinpoint aim for gaps and narrow spaces.

How to order

Please inquire or order for a specific nozzle using these product codes (select material).

Flat Type

<Example> 1/2M TF-BF 42-8-030 ABS
1/2M TF-BF 42-8-030 ABS
 Material
 ■ ABS
 ■ A5052

Round Type

<Example> 1/2M TF-BR 6-030 ABS
1/2M TF-BR 6-030 ABS
 Material
 ■ ABS
 ■ A5052

For blowers

Long Flat Type

FEATURES

- Blower-air driven, long flat type for air blowing over greater widths.
- Space-saving design, suitable for narrow places.
- Made of plastic resin (PPS nozzle tip and HTPVC pipe header) or Aluminum.
- Configured as combinations of $\phi 3$ mm orifices in 42 mm-wide tip units. Available in lengths of multiples of 42 mm.

Flat Type



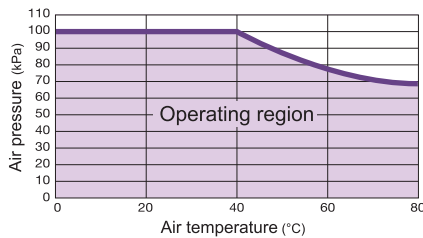
Plastic

► Lightweight plastic, long type.



Material: PPS (nozzle tip), HTPVC (pipe header)
 Orifice diameter: 3.0 mm
 Max. air pressure: 100 kPa (14 psi)
 Max. allowable temperature: 80°C (170°F)

Operating pressure range

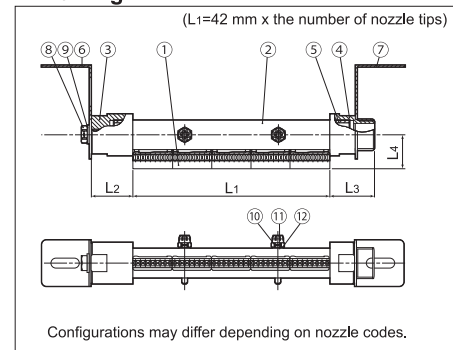


Material

No.	Component	Material	Remark
①	Nozzle tip	PPS	
②	Pipe	HTPVC	
③	Cap	HTPVC	PPS for 2 1/2"
④	Adaptor	HTPVC	PPS for 2 1/2"
⑤	Sleeve	HTPVC	
⑥	Plate (Fixed)	S304	Optional
⑦	Plate (Loose)	S304	Optional
⑧	Bolt (M10)	S304	Optional
⑨	Washer (10)	S304	Optional
⑩	Bolt (M6)	S304	
⑪	Packing	PTFE	
⑫	Washer (6)	S304	

Sealing materials are used for assembly of some parts.

Drawing



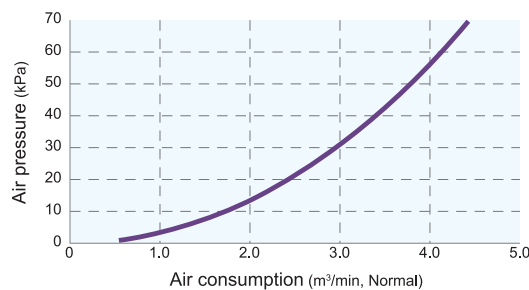
Dimensions and mass

Pipe conn. size	Number of nozzle tips	Outer dimensions (mm)				Mass (g)	
		L1	L2	L3	L4	TAIFUJet	Plate
1M	2 - 5	84 - 210	45	48	36	180 - 270	200
1 1/2M	6 - 13	252 - 546	56	66	44	530 - 840	500
2M	14 - 22	588 - 924	66	73	50	1,350 - 1,830	500
2 1/2M	23 - 38	966 - 1,596	74	84	58	2,940 - 3,900	500

STANDARD PLASTIC MODELS

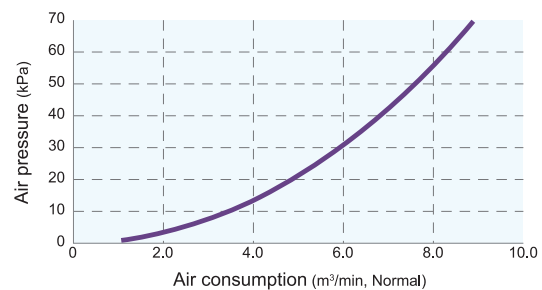
1", 210 mm spray width

Nozzle code: 1M TF-BPF 210-40-030 PPS+HTPVC



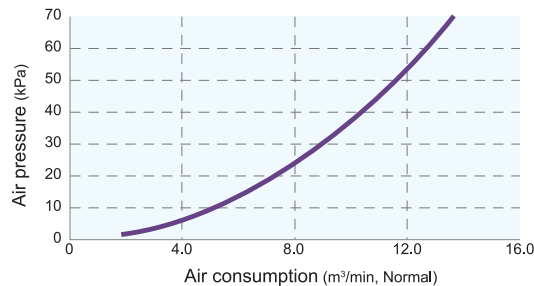
1 1/2", 420 mm spray width

Nozzle code: 1 1/2M TF-BPF 420-80-030 PPS+HTPVC



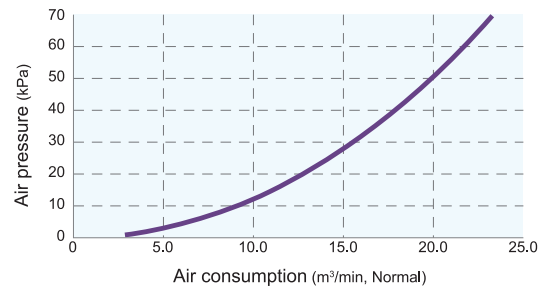
2", 630 mm spray width

Nozzle code: 2M TF-BPF 630-120-030 PPS+HTPVC



2 1/2", 1,008 mm spray width

Nozzle code: 2 1/2M TF-BPF 1008-192-030 PPS+HTPVC



Metal

► Heat-resistant aluminum, long type.



Material: Aluminum
 Orifice diameter: 3.0 mm
 Max. air pressure: 100 kPa (14 psi)
 Max. allowable temperature: 316°C (600°F)

How to order

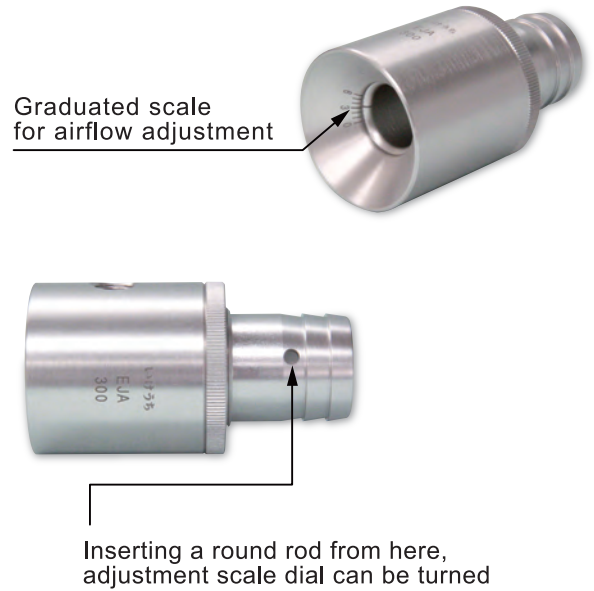
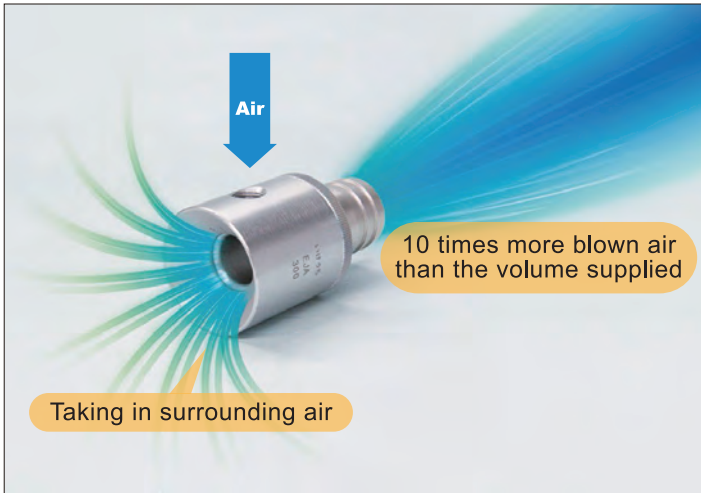
Please contact us for required spray widths and we will contact you with the technical specifications.

For compressors

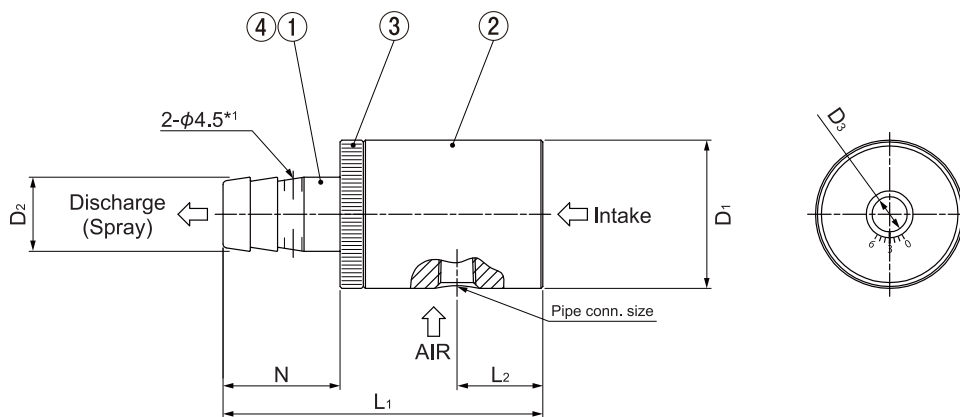
Stainless Steel

FEATURES

- Air booster nozzles producing powerful air blow with small air consumption.
- Graduated scale markings on the nozzle allow for accurate adjustment of blown air volume and intake air volume.
- Made of stainless steel with high wear resistance.



■ Drawing



■ Dimensions and mass

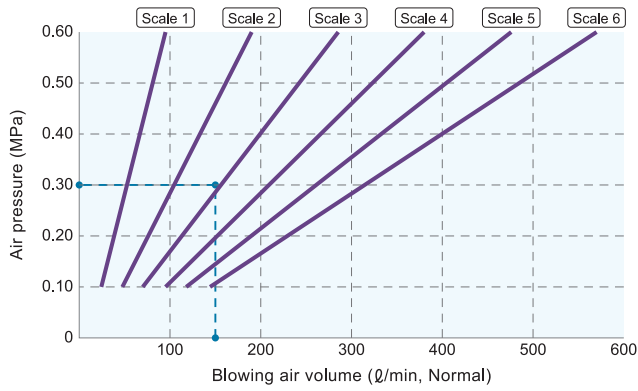
Pipe connection size	Outer dimensions (mm)					Mass (g)
	L ₁	L ₂	φD ₁	φD ₂	φD ₃	
1/8F	82	22	38	19	9	405
1/4F	91	24	50.8	32	20	700
3/8F (450)	101	27	76.3	50.8	40	1,520
3/8F (750)	104	29	101.6	76.3	62	2,370

Figures in () after the pipe connection sizes indicate the air capacity codes.

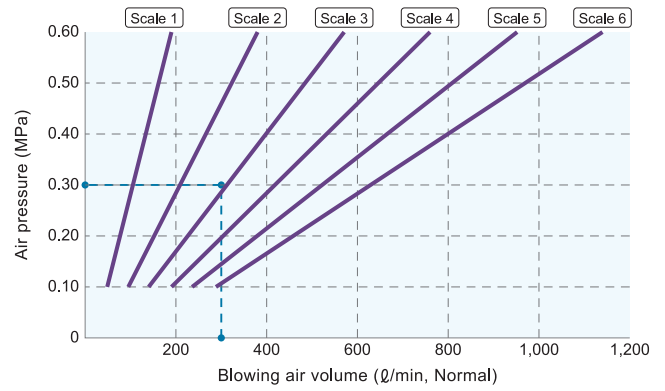
Component	Material
① Body	S303
② Adaptor	S303
③ Lock nut	S303
④ O-ring	NBR

*1) Position of opening for airflow adjustment with round rod

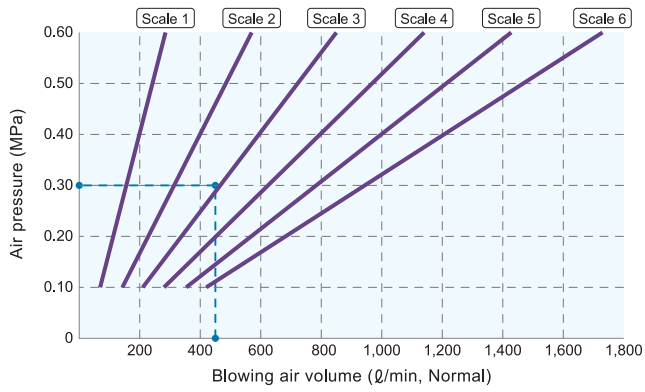
EJA150



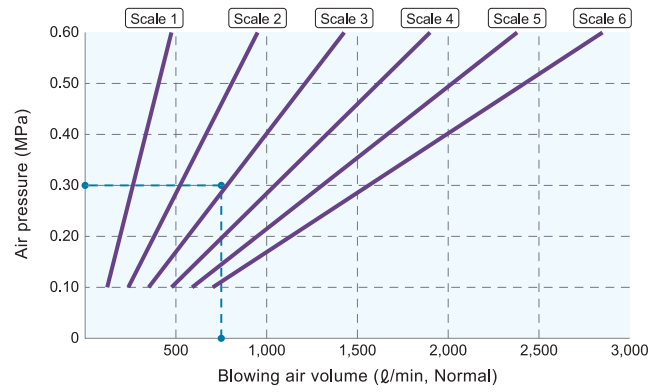
EJA300



EJA450



EJA750



Scales 1–6 are the graduated scale markings on the nozzle for airflow adjustment.

Air capacity code	Pipe connection size	Air consumption (l/min, Normal)*2				
		0.1 MPa	0.2 MPa	0.3 MPa	0.4 MPa	0.5 MPa
150	1/8F	71	109	150	193	238
300	1/4F	142	219	300	386	476
450	3/8F	212	328	450	579	714
750	3/8F	354	546	750	965	1,190

*2) Measured with airflow adjustment scale set to "3".

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> 1/4 EJA 300 S303

1/4F

Pipe connection size

- 1/8F
- 1/4F
- 3/8F

EJA

300

Air capacity code

- 150
- 300
- 450
- 750

S303

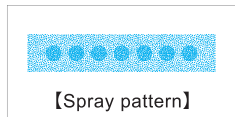
For compressors

Disassemblable
Stainless Steel

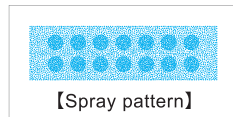
FEATURES

- Produces uniform air flow from multi orifices.
- Noise level reduced by more than 10 dB (A) compared to a one-hole air nozzle.
- Compact design, 47 mm in length (47.5 mm for 3/8M).
- Detachable into three parts, easy to clean the nozzle orifices.
- Made of stainless steel with high resistance to shock and heat.

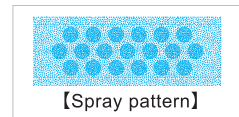
7 orifices



14 orifices



19 orifices



7-012 Air spray width and thickness (mm)

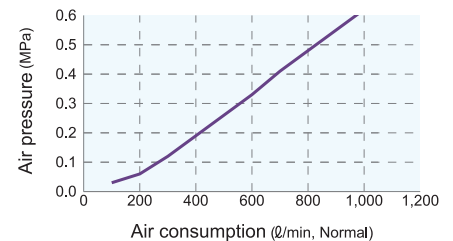
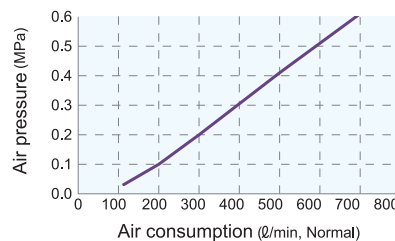
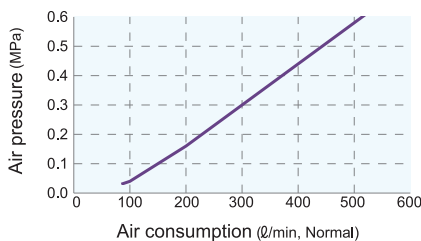
Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	60	60	60	60
150 mm	110	80	120	120	120	120
300 mm	150	120	190	150	200	160

14-010 Air spray width and thickness (mm)

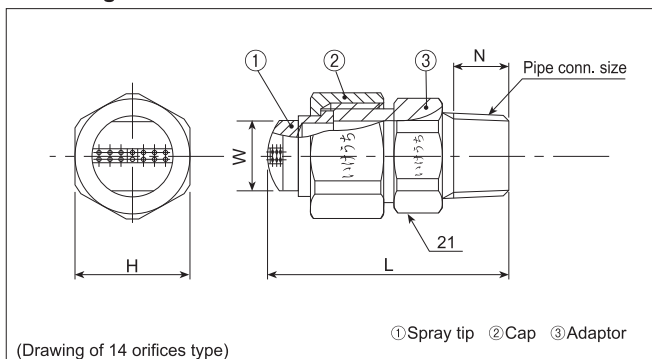
Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	70	60	80	60
150 mm	120	80	140	120	150	120
300 mm	170	120	200	150	220	160

19-010 Air spray width and thickness (mm)

Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	80	60	80	60
150 mm	120	80	140	120	150	120
300 mm	180	120	210	150	230	160



■ Drawing



Material: S303 (Optional material: S316)
Max. allowable temperature: 400°C (750°F)

■ Dimensions and mass

Pipe connection size	Outer dimensions (mm)				Mass (g)
	L	H	W	N	
1/4M	47.0	23.0	14.0	10.5	70
3/8M	47.5	23.0	14.0	11.0	75

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> 1/4M HF 7-012 S303

1/4M HF 7-012 S303

Pipe conn.size

- 1/4M
- 3/8M

Nozzle code

- 7-012
- 14-010
- 19-010

For compressors

Disassemblable
Metal

FEATURES

- Wide-angle flat spray: spray angle of 90° provides larger spray coverage.
- Three-piece structure. Air spray volume can be adjusted by changing spray tips.
- Capable of steam spraying.

Flat Type

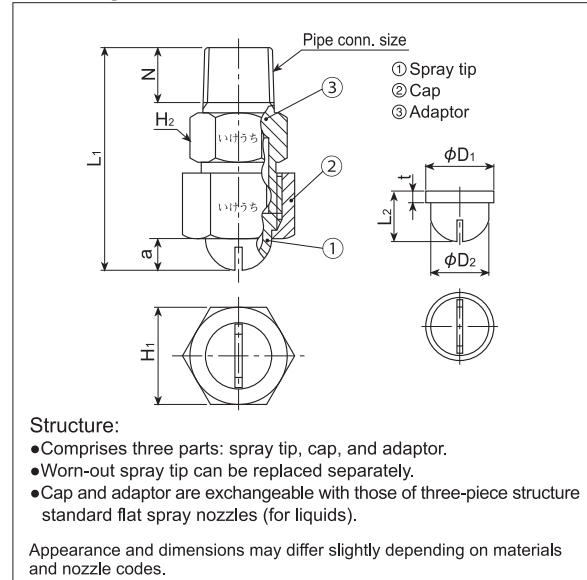
[Spray pattern]

► Produces a flat spray pattern of air or steam.



Material: S303, B (brass)
(Optional material: S316)
Max. allowable temperature: 400°C (750°F) for S303
200°C (390°F) for Brass

■ Drawing



■ Dimensions and mass [Complete nozzle]

Pipe connection size	Outer dimensions (mm)					Mass (g)	
	L ₁	H ₁	H ₂	N	a	S303	B
1/4M	43	19	17	10.5	6.5	44	47
3/8M	48.5	23	21	11	9.5	73	78

■ Dimensions and mass [Spray tip]

Pipe connection size of complete nozzle	Outer dimensions (mm)				Mass (g)	
	L ₂	φD ₁	φD ₂	t	S303	B
1/4M	11	14.5	12.5	2.5	4.7	5.0
3/8M	14	18	16	2.5	7.7	8.1

Spray angle code	Air capacity code	Pipe connection size		Air capacity (ℓ/min, Normal)						Steam capacity (kg/hr)						Free passage diameter (mm)
		1/4M	3/8M	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	
90	150	○		55.7	77.6	116	154	230	307	2.62	3.56	5.27	6.97	10.3	13.7	0.2
	200	○		73.1	102	152	202	302	402	3.44	4.67	6.92	9.14	13.6	17.9	0.3
	250	○		90.5	126	188	250	374	498	4.26	5.78	8.57	11.3	16.8	22.2	0.4
	300	○		108	150	224	298	446	594	5.08	6.90	10.2	13.5	20.0	26.5	0.5
	350	○		125	175	261	346	518	690	5.90	8.00	11.9	15.7	23.2	30.7	0.6
	400	○		143	199	297	394	590	786	6.72	9.12	13.5	17.9	26.5	35.0	0.7
	450	○		160	223	333	443	662	882	7.54	10.2	15.2	20.0	29.7	39.3	0.8
	500	○		177	247	369	491	734	977	8.36	11.3	16.8	22.2	32.9	43.5	0.9
	550		○	199	278	414	551	823	1,096	9.38	12.7	18.8	24.9	36.9	48.8	0.6
	600		○	219	305	455	605	905	1,205	10.3	14.0	20.7	27.4	40.6	53.7	0.7
	650		○	235	328	489	650	972	1,295	11.1	15.0	22.3	29.4	43.6	57.7	0.8
	700		○	253	353	526	700	1,047	1,394	11.9	16.2	24.0	31.7	46.9	62.1	0.8
	750		○	272	380	566	753	1,126	1,500	12.8	17.4	25.8	34.1	50.5	66.8	0.9
	900		○	326	454	677	901	1,347	1,794	15.3	20.8	30.8	40.7	60.4	79.9	1.1
1130		○	406	566	844	1,122	1,678	2,235	19.1	25.9	38.4	50.8	75.2	99.5	1.4	

Standard pressure: 0.3 MPa

How to order

Please inquire or order for a specific nozzle using this coding system.

① Complete nozzle <Example> 1/4M VZ 150 S303

1/4M VZ **150** **S303**
Pipe conn. size: 1/4M, 3/8M
Air capacity code: 150, 1130
Material: S303, B

② Spray tip only <Example> 1/4 VZ 150 S303

1/4 VZ **150** **S303**
Pipe conn. size: 1/4, 3/8
Air capacity code: 150, 1130
Material: S303, B

Flat Spray Nozzles

SAP series



Material: S304

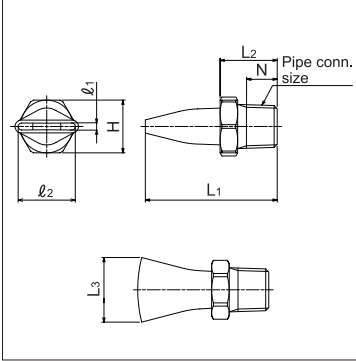
For blowers

Stainless Steel

FEATURES

- Compact enough to install in a narrow space. 1/8M size is 29 mm long.
- Pressure loss is minimal to enable high spray impact performance.
- Compared to conventional, general-purpose air nozzles, SAP series provides larger spray coverage.

■ Drawing



■ Dimensions and mass

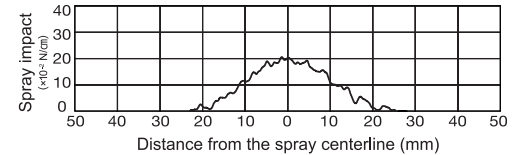
Pipe conn. size	Outer dimensions (mm)							Mass (g)
	L1	L2	L3	ℓ1	ℓ2	H	N	
1/8M	29	13	14.7	1.5	13	12	7	10
1/4M	37	17.5	18.9	1.5	17	14	10.5	16

Pipe conn. size	Air consumption (ℓ/min, Normal)				
	10 kPa	20 kPa	30 kPa	40 kPa	50 kPa
1/8M	120	170	208	239	266
1/4M	167	235	287	330	368

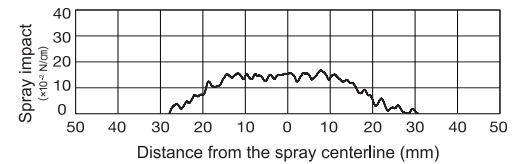
Compressor air can be used.
(The above chart shows blower air consumption)

■ Spray impact distribution

【1/8MSAP13-15S304】 at air pressure 20 kPa, air consumption 0.17 ℓ/min (Normal), spray height 100 mm



【1/4MSAP17-15S304】 at air pressure 20 kPa, air consumption 0.24 ℓ/min (Normal), spray height 100 mm



How to order

Please inquire or order for a specific nozzle as below.

①Pipe connection size: 1/8M
1/8M SAP 13-15 S304

②Pipe connection size: 1/4M
1/4M SAP 17-15 S304

Solid Stream Jet

CCP-A series



Material: S303

For compressors

Stainless Steel

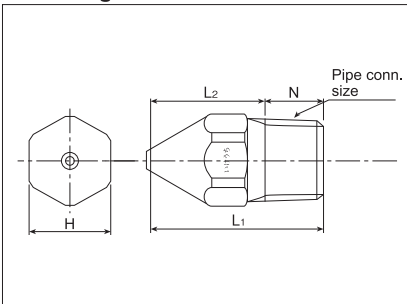
FEATURES

- Spraying air in a solid stream through a single orifice yields strong propagation for highly effective air blowing.
- Product lineup orifice diameters range from $\phi 1.0$ to $\phi 2.5$ mm.
- Delivering good performance for low cost, ideal for use in large quantities.

Round Type



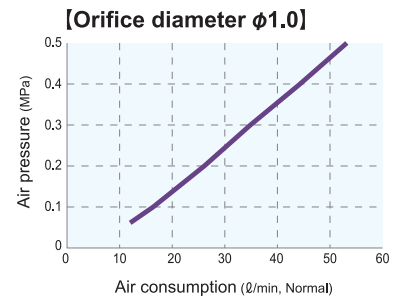
■ Drawing



■ Dimensions and mass

Pipe conn. size	Outer dimensions (mm)				Mass (g)
	L1	L2	H	N	
1/8M	21	14	10	7	7.2
1/4M	30	19.5	14	10.5	19

Orifice diameter code	Pipe conn. size	Air consumption (ℓ/min, Normal)					Orifice diameter (mm)
		0.1 MPa	0.2 MPa	0.3 MPa	0.4 MPa	0.5 MPa	
$\phi 1.0A$	1/8M	17	26	35	44	53	1.0
$\phi 1.5A$		40	60	80	100	120	1.5
$\phi 2.0A$	1/4M	70	104	138	172	206	2.0
$\phi 2.5A$		109	162	215	268	321	2.5



How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> 1/8M CCP $\phi 1.0A$ S303

1/8M CCP $\phi 1.0A$ S303

Pipe conn. size
■ 1/8M
■ 1/4M

Orifice diameter code
■ $\phi 1.0A$ ■ $\phi 2.0A$
■ $\phi 1.5A$ ■ $\phi 2.5A$

For compressors

Stainless Steel /PVC

FEATURES

- Produces laminar air flow with uniform spray impact distribution.
- Compact and space-saving design.

For liquid spraying, available is SLNH-H series with uniform spray flow distribution. For details please refer to our hydraulic spray nozzle catalog.

Flat Type

[Spray pattern]



Material: S304, PVC

Lightweight type



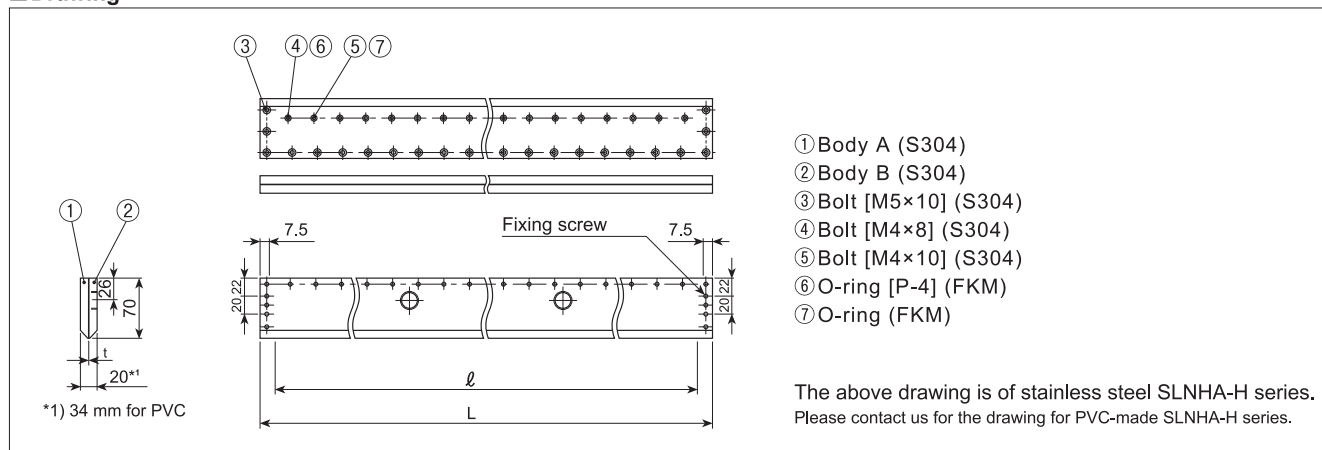
Please inquire with us for details of lightweight type.

Dimensions and mass

Slit length ℓ (mm)	Slit opening t (mm)	Number of inlets	Thread size		Total length (mm)		Mass (kg)	
			Fluid inlet	Fixing	L	S304	PVC	
530	0.1	2	3/8F	M5	560	5.0	1.5	
700					730	6.5	1.9	
810			840		7.5	2.2		
900			930		8.0	2.5		
1,400			1,430		12.0	4.0		

Depth of the fixing screw is 8 mm for S304, 10 mm for PVC.
Appearance and dimensions may differ slightly depending on materials and nozzle codes.

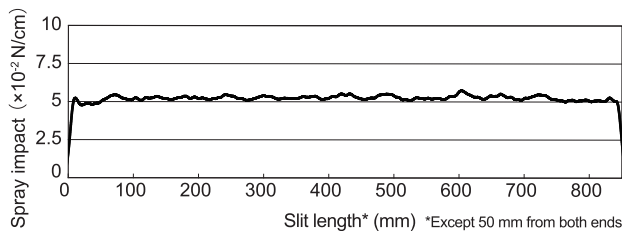
Drawing



Spray impact distribution

[Nozzle: SLNHA-H 850×0.1]

- Slit opening: 0.1 mm
- Slit length: 850 mm
- Spray height: 5 mm
- Air pressure: 0.05 MPa
- Air consumption: 1,090 ℓ /min, Normal



Spray impact

- Max. value: 5.7×10^{-2} N/cm
- Min. value: 5.0×10^{-2} N/cm
- Median value: 5.4×10^{-2} N/cm
- Deviation from median: $\pm 6.5\%$

Slit length (mm)	Slit opening (mm)	Air consumption (ℓ /min, Normal) ^{*2}							
		0.01 MPa	0.02 MPa	0.03 MPa	0.04 MPa	0.05 MPa	0.06 MPa	0.07 MPa	0.08 MPa
530	0.1	209	355	472	570	657	736	810	880
700		276	469	623	753	868	972	1,070	1,160
810		319	543	721	871	1,000	1,130	1,240	1,350
900		355	603	802	968	1,120	1,250	1,380	1,490
1400		552	938	1,250	1,510	1,740	1,940	2,140	2,330

*2) The above air consumption is for reference only and subject to design changes.

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> 2-3/8F SLNHA-H 530×0.1 PVC

2 - **3/8F** **SLNHA-H** **530** **×0.1** **PVC**

Number of inlets: 2, 3
Thread size: 3/8F, 1/2F
Slit length: 530, 700, 810, 900, 1400
Material: S304, PVC

For compressors

Stainless Steel

FEATURES

- No need to adjust slit opening width after maintenance. No slit adjustment bolts.
- Uniform air flow is optimal for blow-off drying of PCB and flat panels.

Flat Type

【Spray pattern】

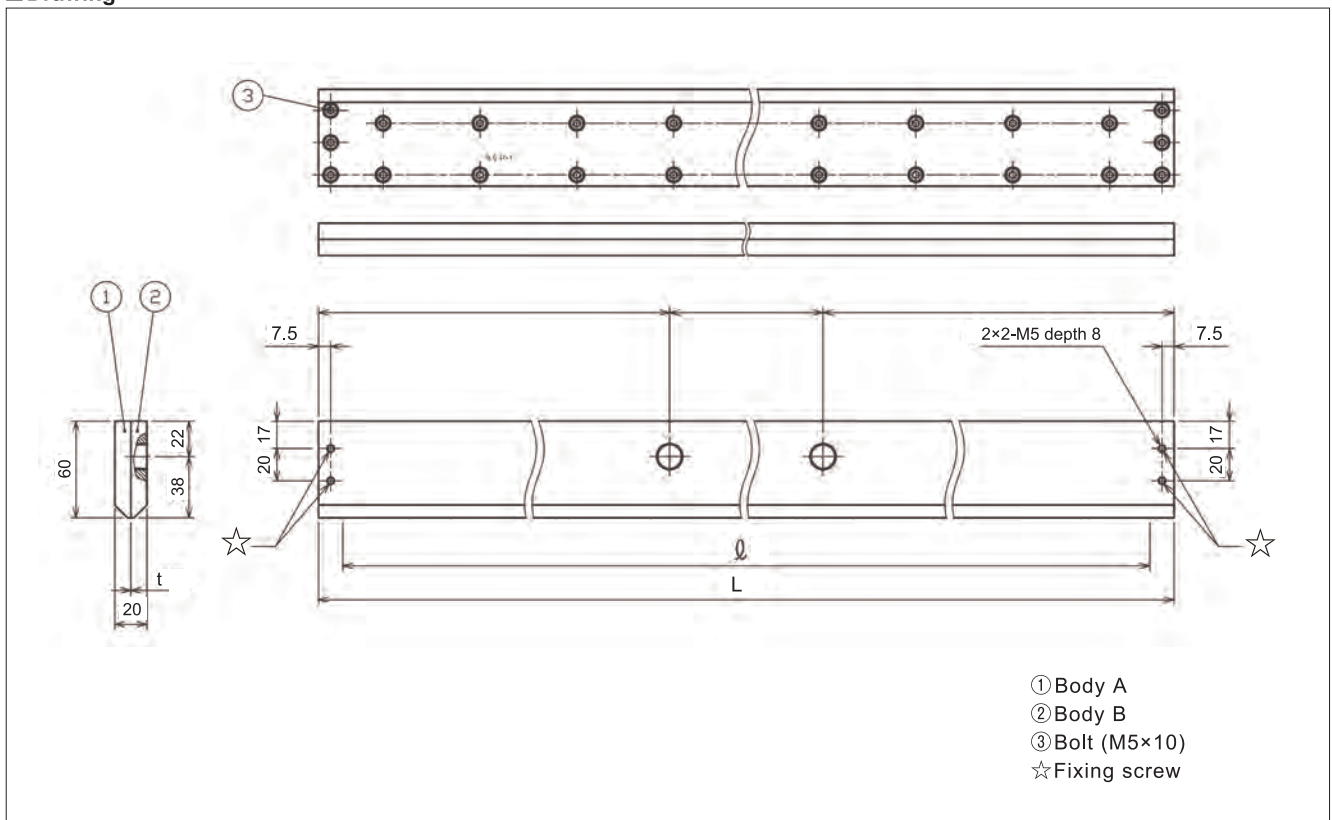


Dimensions and mass

Slit length ℓ (mm)	Slit opening t (mm)	Number of inlets*	Thread size		Total length L (mm)	Mass (kg)	Material
			Fluid inlet	Fixing			
530	0.1 or 0.2	2-3	$\frac{3}{8}$ F	M5	560	4.6	S304
700		3-5			730	6.0	
810					840	6.9	
900	930				7.7		
1,400	5-7	1,430			12.0		

*The number of inlets differs by slit opening width.

Drawing

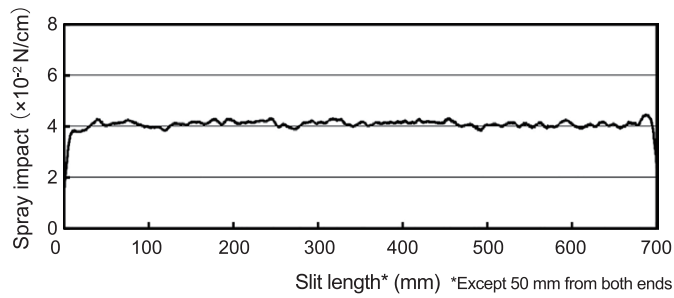


SLNHA-NA series

■ Spray impact distribution

[Nozzle: SLNHA-NA 700×0.1]

Slit opening: 0.1 mm
Slit length: 700 mm
Spray height: 5 mm
Air pressure: 0.05 MPa
Air consumption: 720 ℓ/min, Normal



Spray impact

Max. value: 4.31×10^2 N/cm
 Min. value: 3.83×10^2 N/cm
 Median value: 4.07×10^2 N/cm
 Deviation from median: +/-5.9%

Slit length (mm)	Slit opening (mm)	Air consumption (ℓ/min, Normal)							
		0.01 MPa	0.02 MPa	0.03 MPa	0.04 MPa	0.05 MPa	0.06 MPa	0.08 MPa	0.10 MPa
530	0.1	198	299	389	471	545	617	747	865
700		262	395	514	622	720	815	986	1,140
810		303	457	595	720	834	943	1,140	1,320
900		337	507	661	800	926	1,050	1,270	1,470
1400		524	789	1,030	1,240	1,440	1,630	1,970	2,290
530	0.2	397	598	778	942	1,090	1,230	1,490	1,730
700		524	789	1,030	1,240	1,440	1,630	1,970	2,290
810		606	913	1,190	1,440	1,670	1,890	2,280	2,640
900		674	1,020	1,320	1,600	1,850	2,100	2,540	2,940
1400		1,050	1,580	2,060	2,490	2,880	3,260	3,950	4,570

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> 2-³/₈F SLNHA-NA 530×0.1 S304

2 <small>Number of inlets*</small> ■ 2 ■ 3 ■ 4 ■ 5 ■ 6 ■ 7	-	3/8F	SLNHA-NA	530 <small>Slit length</small> ■ 530 ■ 700 ■ 810 ■ 900 ■ 1400	×	0.1 <small>Slit opening</small> ■ 0.1 ■ 0.2	S304
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*Inquire with us for the number of inlets, which is determined by the slit opening width.

Slit Nozzles (Air Curtain)

SLNB series

For blowers

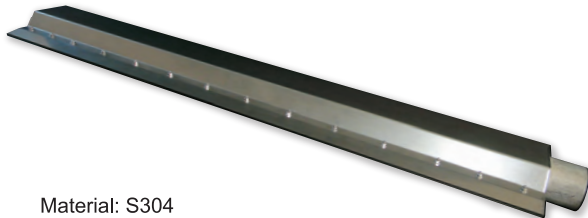
Stainless Steel

FEATURES

- Pressure loss is minimal to enable high spray impact performance. Long thin slit with tapered nose is suitable for installation in a narrow space such as between support rolls.
- Drastic energy saving is achieved by switching from compressor-using type.

Flat Type

【Spray pattern】



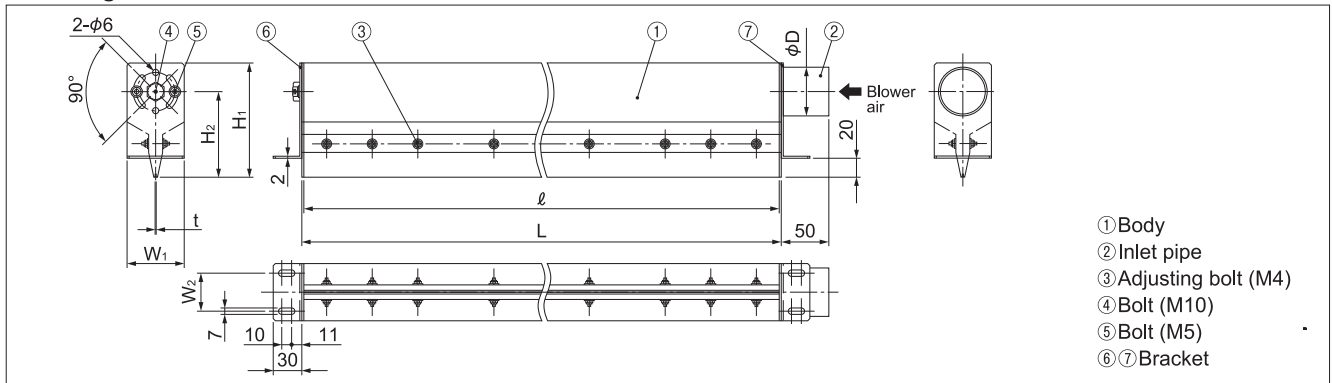
Material: S304

Dimensions and mass

Air inlet type	Slit length ℓ (mm)	Slit opening t (mm)	Outer dimensions (mm)						Mass (kg)
			L	H ₁	H ₂	W ₁	W ₂	ϕ D	
D38	400	0.5	404	105	80	50	30	38.0	1.9
	600		2.7						
	800		3.5						
	1,000		4.3						
D50	1,200	1.0	1,204	120	90	60	40	50.8	5.9
D38	400		404	105	80	50	30	38.0	1.9
	600		604	120	90	60	40	50.8	3.2
	800		804	120	90	60	40	50.8	4.1
D65	1,000	1.0	1,004	140	102.5	75	50	63.5	6.2
	1,200		1,204						140

Appearance and dimensions may differ slightly depending on materials and nozzle codes.

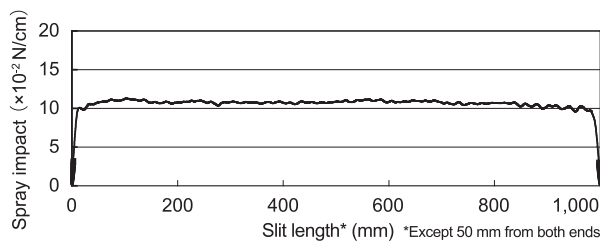
Drawing



Spray impact distribution

[Nozzle: SLNB1000×0.1]

Slit opening: 1.0 mm
Slit length: 1,000 mm
Spray height: 5 mm
Air pressure: 5.2 kPa
Air consumption: 5,000 ℓ /min, Normal



Spray impact

Max. value: 11.29×10^{-2} N/cm
Min. value: 9.69×10^{-2} N/cm
Median value: 10.49×10^{-2} N/cm
Deviation from median: $\pm 7.6\%$

Slit length (mm)	Slit opening (mm)	Air consumption (m^3/min , Normal)*					
		5 kPa	10 kPa	15 kPa	20 kPa	25 kPa	30 kPa
400	0.5	0.97	1.60	2.01	2.58	3.01	3.40
600		1.45	2.39	3.18	3.87	4.51	5.10
800		1.94	3.19	4.24	5.17	6.01	6.80
1000		2.42	3.99	5.30	6.46	7.52	8.50
1200		2.91	4.79	6.36	7.75	9.02	10.20
400	1.0	1.91	2.81	3.52	4.13	4.67	5.16
600		2.87	4.22	5.28	6.19	7.00	7.74
800		3.82	5.62	7.04	8.23	9.34	10.33
1000		4.78	7.03	8.80	10.32	11.67	12.91
1200		5.73	8.43	10.56	12.39	14.01	15.49

*The above air consumption is for reference only and subject to design changes.

How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> D65 SLNB 1200×1.0 S304-S-A

D65	SLNB	1200	×	1.0	S304-S-A
Air inlet type		Slit length		Slit opening	
■ D38		■ 400 ■ 1000		■ 0.5	
■ D50		■ 600 ■ 1200		■ 1.5	
■ D65		■ 800			

Special Fittings

Universal Ball Joints UT series

FEATURES

Metal

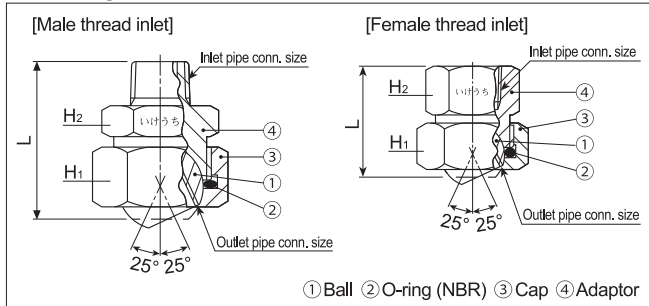
- Accurate nozzle alignment is possible after connected to pipe.
- Adjust spray direction over a range of 50 degrees as desired.
- Available from 1/8" to 3/4" in pipe connection size.



Material: S303, B (brass)
(Optional material: S316 or others)

This photo is UT Ball Joint with an air nozzle.

■ Drawing



■ Dimensions and mass

*WAF = width across flats

Ball joint code (Inlet x Outlet)	Inlet pipe conn. size	Outlet pipe conn. size	Dimensions (mm)			Mass (g)	
			L	H ₁ (WAF)*	H ₂ (WAF)*	S303	B
UT ^{1/8} M× ^{1/8} F	1/8M	1/8F	32.5	22	21	56	60
UT ^{1/4} M× ^{1/8} F	1/4M	1/8F	36.0	22	21	60	65
UT ^{1/4} M× ^{1/4} F	1/4M	1/4F	39.5	29	24	100	110
UT ^{3/8} M× ^{1/4} F	3/8M	1/4F	40.0	29	24	110	115
UT ^{3/8} M× ^{3/8} F	3/8M	3/8F	47.5	35	30	190	205
UT ^{1/2} M× ^{1/2} F	1/2M	1/2F	54.5	41	41	325	350
UT ^{3/4} M× ^{3/4} F	3/4M	3/4F	61.5	50	46	490	525
UT ^{1/8} F× ^{1/8} F	1/8F	1/8F	28.5	22	21	63	69
UT ^{1/4} F× ^{1/8} F	1/4F	1/8F	28.5	22	21	58	63
UT ^{1/4} F× ^{1/4} F	1/4F	1/4F	33.5	29	24	110	120
UT ^{3/8} F× ^{1/4} F	3/8F	1/4F	33.5	29	24	100	110
UT ^{3/8} F× ^{3/8} F	3/8F	3/8F	44.5	35	30	220	235
UT ^{1/2} F× ^{1/2} F	1/2F	1/2F	48.5	41	41	375	405
UT ^{3/4} F× ^{3/4} F	3/4F	3/4F	55.5	50	46	560	600

FEATURES

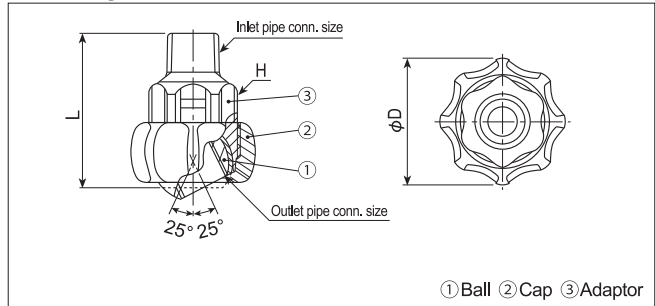
Plastic

- Adjust spray direction while spraying (up to 0.3 MPa).
- No O-ring! Easy installation by hand.
- Light weight, only half of metal joint.
- Low price due to injection-molded construction.



Material:
● Adaptor and cap: FRPP
● Ball: FRPP + PP + EPDM

■ Drawing



■ Dimensions and mass

Ball joint code (Inlet x Outlet)	Inlet pipe conn. size	Outlet pipe conn. size	Dimensions (mm)			Mass (g)
			L	H	φD	
UT ^{1/8} M× ^{1/8} F	1/8M	1/8F	38.0	21	32	12
UT ^{1/4} M× ^{1/8} F	1/4M	1/8F	40.0	21	32	13
UT ^{1/4} M× ^{1/4} F	1/4M	1/4F	40.0	21	32	12
UT ^{3/8} M× ^{1/8} F	3/8M	1/8F	41.0	21	32	13
UT ^{3/8} M× ^{1/4} F	3/8M	1/4F	41.0	21	32	12

How to order

Please inquire or order for a specific joint using this coding system.

Metal

<Example> UT ^{1/8}M×^{1/8}F S303

UT 1/8M	× 1/8F	S303
Inlet pipe conn. type	Outlet pipe conn. size	Material
■ 1/8M	■ 1/8F	■ S303
■ 1/4M	■ 1/4F	■ B
■ 3/8M	■ 3/8F	
■ 1/2M	■ 1/2F	
■ 3/4M	■ 3/4F	

Plastic

<Example> UT ^{1/8}M×^{1/8}F FRPP-IN

UT 1/8M	× 1/8F	FRPP-IN
Inlet pipe conn. size	Outlet pipe conn. size	
■ 1/8M	■ 1/8F	
■ 1/4M	■ 1/4F	
■ 3/8M		



Cautions

Metal UT Use UT-S303 at pressure **under 15 MPa**, UT-B (brass) **under 4 MPa**.

Plastic UT Use UT-FRPP at pressure **under 1 MPa** (at room temperature).

Do not use UT Ball Joints under conditions where sudden change of water pressure occurs.

Universal Joints WUT series



Photo is WUT Universal Joint with a spray nozzle.



FEATURES

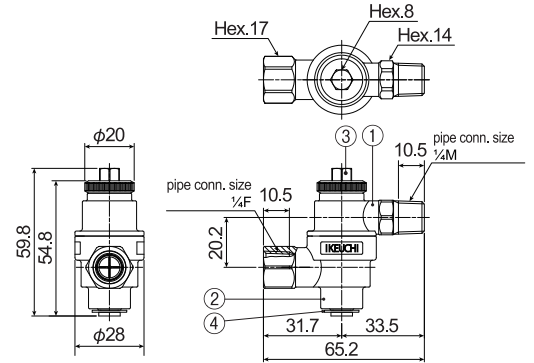
- 360° rotatable to adjust spray direction.
- Includes a rotating lock to keep the nozzle direction fixed.
- Stabilizing function suppresses internal turbulent flow.
- Withstands high pressure up to 3 MPa.
- Safe design prevents parts from dropping off when the lock is released.

Dimensions

Materials:
Adaptor: SCS13
Bolt: S303
E-ring: S304
O-ring: NBR

Mass: 146g

- ① Adaptor
- ② Bolt
- ③ Bolt
- ④ E-ring



How to order

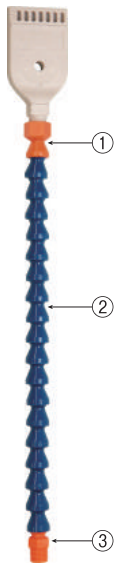
Please inquire or order as below.

WUT 1/4M × 1/4F SCS13

⚠ Cautions for use

- The bolt may loosen because of vibration if it is screwed in by hand. Tighten with a torque-wrench at 6 N·m.
- Maximum working pressure is 3 MPa.
- When used with a solid stream jet nozzle, slightly turbulent flow occurs.

Flexible Tube FT series



Materials: POM
Max. allowable temperature: 65°C (140°F)

- ① Female connector (for nozzle)
- ② Segment
- ③ Male connector (for air supply)



Number of segments: 18 pcs., 14 pcs., 10 pcs., 6 pcs., 2 pcs.

Photo is Flexible Tube with TAIFUJet® (42-mm wide type).

FEATURES

- Tube path and angle can be adjusted as desired.
- Highly pliable hose holds its shape well and will not spring back.
- Various types of air nozzles can be attached according to your usage.

Dimensions and mass

*Total length excludes the nozzle.

Screw size for		Total length* (mm)	Number of segments (Quantity)	Mass (g)
Air supply (③)	Nozzle (①)			
1/8M	1/8F	71	2	8.6
		131	6	15.4
		190	10	22.2
		249	14	29.0
		309	18	35.8
1/4M	1/4F	76	2	9.2
		135	6	16.0
		194	10	22.8
		254	14	30.0
		313	18	36.4
1/4M	1/8F	71	2	9.0
		131	6	15.8
		190	10	22.6
		250	14	28.6
		309	18	36.2

How to order

Please inquire or order for a specific tube using this coding system.

When air supply screw size ③ is 1/4M

<Example> FT 1/4M×1/4F 76-2 POM

FT 1/4M × 1/4F

Nozzle connecting screw size ①
■ 1/8F
■ 1/4F

When nozzle connecting side ① is size 1/8F

When nozzle connecting side ① is size 1/4F

76-2

Total length - Number of segments
■ 71-2 ■ 250-14
■ 131-6 ■ 309-18
■ 190-10

■ 76-2 ■ 254-14
■ 135-6 ■ 313-18
■ 194-10

POM

When air supply screw size ③ is 1/8M

<Example>

FT 1/8M×1/8F 71-2 POM

FT 1/8M × 1/8F

71-2

POM

Total length - Number of segments
■ 71-2 ■ 249-14
■ 131-6 ■ 309-18
■ 190-10

⚠ Cautions for use

Use FT series at air pressure **under 0.3 MPa**.

(In some cases, the tube may not remain fixed depending on the nozzle type and/or tube length due to its spray reaction force).



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