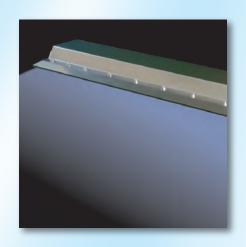


IKEUCHI AIR NOZZLE CATALOG





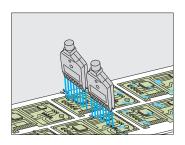


AIR NOZZLES provide solutions for problems in manufacturing plants.

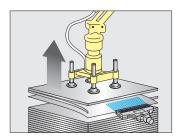
There are many areas in which air nozzles can make a difference; including productivity, product quality, cost cutting, noise reduction, and more. **IKEUCHI, the Fog Engineers,** to meet any customer demand, provides an extensive variety of products, from compact nozzles to entire systems, for applications from narrow spaces to large-scale lines.

Usage examples

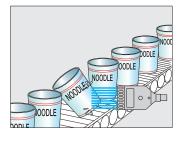
■Blow-off drying after washing



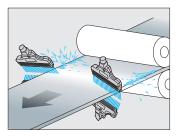
■Detachment (Preventing double sheet feeding for steel plates)



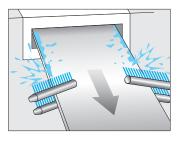
■Rejection of inferior products



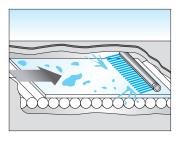
■Blowing off of dust under high temperatures



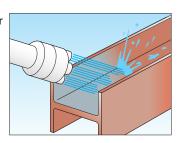
■Blowing off of liquid (Edge wiper for steel surface treatment)



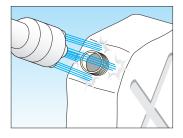
■Narrow space



■Blowing off of water from shaped steel



■Pinpoint cooling for molded plastic



Contents

Air Booster Nozzles	TAIFUJet seriesp.3-11
	EJA series p.12–13
Multi-orifice Flat Spray Nozzles	HF seriesp.14
Flat Spray Nozzles	VZ series p.15 SAPseries p.16
Solid Stream Jet	CCP-A seriesp.16
Slit Nozzles (Air Curtain)	SLNHA-Hseriesp.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.

ber
pylene 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

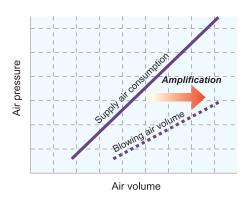
TAIFUJet_® series

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.



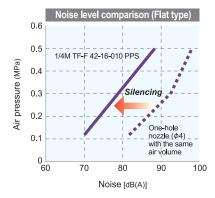
Low Noise Level (Quiet Operation)

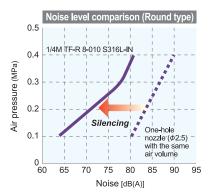
TAIFUJet is designed to have minimal noise levels.

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



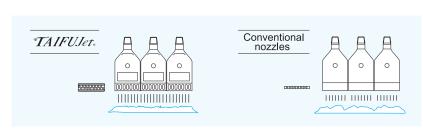


Uniform Spray Impact

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

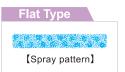




Flat Type Plastic

FEATURES

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



42 mm wide Short type

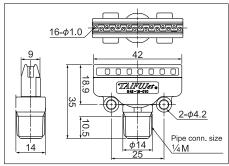
- ► Compact, much shorter body (35 mm long) compared to the conventional 42 mm wide type.
- ► Uniform distribution resulting from the unique flat design.

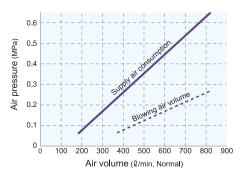


Material: PPS Mass: 9 g

Max. air pressure: 0.7 MPa (100 psi)
Max. allowable temperature: 120°C (240°F)

■ Dimensions



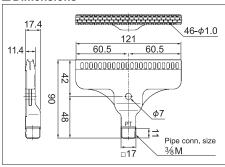


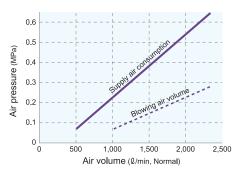
121 mm wide Broad type

- ► 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.

142 mm wide, short type

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

Thread type

■(PT) ■(NPT)

2121 mm wide, broad type

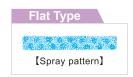
3/8M (PT) TF-F 121-46-010 PPS

Thread type ■(PT) ■(NPT)

Air Booster Nozzles

42 mm wide

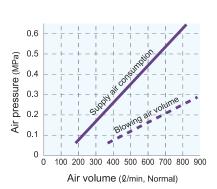
▶ Uniform distribution resulting from the unique flat design. ▶42 mm wide standard flat air nozzle with ϕ 1.0 mm orifice.





Material: PPS Mass: 30 g

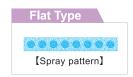
Max, air pressure: 0.7 MPa (100 psi) Max. allowable temperature: 120°C (240°F)



■ Dimensions 16**-**φ1.0 Pipe conn. size

24 mm wide Compact type

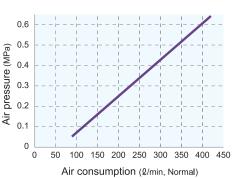
- ▶ Ultra-compact air nozzle (24 mm wide, 30 mm long) with equal high spray impact and minimal noise level.
- ▶ Compact enough to install in a narrow space, such as for blow-off drying in corners.

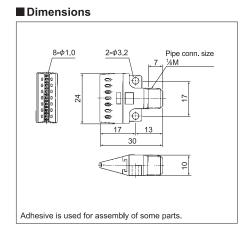




Material: PPS Mass: 4 g

Max. air pressure: 0.7 MPa (100 psi) Max. allowable temperature: 120°C (240°F)





How to order

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

1)42 mm wide type

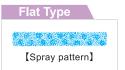
1/4M (PT) TF-F 42-16-010 PPS

(PT) **■**(NPT) 224 mm wide, compact type 1/8M TF-F 24-8-010 PPS-IN

Flat Type Stainless Steel

FEATURES

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



42 mm wide

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

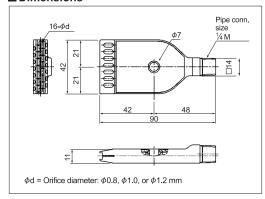


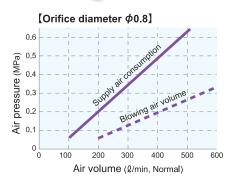
Material: S316L equivalent

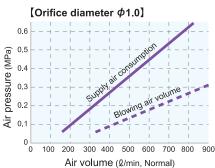
Mass: 144 g

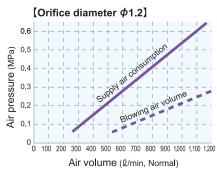
Max. air pressure: 1.0 MPa (140 psi) Max. allowable temperature: 400°C (750°F)

■ Dimensions









50 mm wide

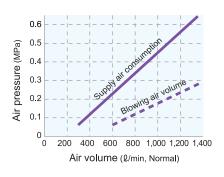
▶ Compact and wider flat air nozzle, 50 mm wide and 65 mm long.



Mass: 140 g

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

■ Dimensions Pipe conn.



How to order

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

1/40 mm wide type <Example> 1/4M (PT) TF-F 42-16-010 S316L-IN

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

■(PT) ■(NPT)

■008 (¢0.8) 010 (φ1.0) 012 (φ1.2) 250 mm wide type 1/4M TF-F 50-16-012 S304

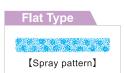
Air Booster Nozzles

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.





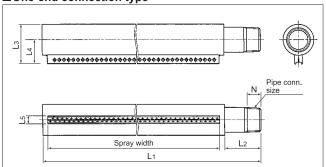


Material: S304

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

,	Product code	Spray Orifice		Number of	Air consumption (&/min, Normal)			
	100001 0000	(mm)	(mm)	orifices	0.1 MPa	0.3 MPa	0.5 MPa	
	100- 40-010	100		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	1.0	196	2,500	5,000	7,400	
	600-234-010	600	1.0	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	

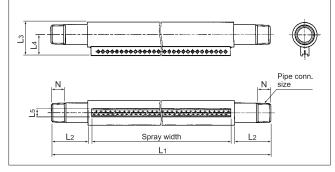
■One-end connection type



■Dimensions and mass

Product code	dust code Pipe conn. Outer dimensions (mm)						Mass	
Product code	size	L1	L2	L3	L4	L5	N	(g)
100- 40-010		156	40	37	23	9	14	360
150- 58-010		203	40	37	23	9	14	500
200- 78-010	1/2M	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		557	40	44	27	9	15	2,000
600-234-010	3/4M	655	40	44	27	9	15	2,400
700-274-010		758	40	44	27	9	15	2,800
800-312-010		856	40	52	31	9	18	3,200
900-352-010	1M	959	40	52	31	9	18	5,100
1000-390-010	TIVI	1,056	40	52	31	9	18	5,600
1200-468-010		1,257	40	52	31	9	18	6,700
1400-546-010	1½M	1,457	40	70	40	9	20	13,800

■Both-end connection type



■Dimensions and mass

Product code	Pipe conn.	Outer dimensions (mm)						Mass
Product code	size*	L1	L2	L3	L4	L5	N	(g)
500-196-010		597	40	37	23	9	14	1,750
600-234-010	2-1/2M	695	40	37	23	9	14	2,050
700-274-010		798	40	37	23	9	14	2,400
800-312-010		896	40	44	27	9	15	3,250
900-352-010	0.3/14	999	40	44	27	9	15	3,650
1000-390-010	2- ³ / ₄ M	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> ¾M TF-PF 500-196-010 S304

Pipe conn. size TF - PF Product code S304

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.).

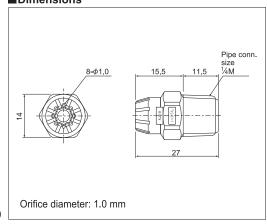


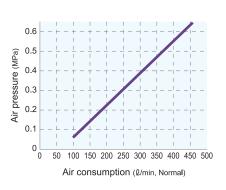




Material: PP Mass: 2 g Max. air pressure: 0.7 MPa (100 psi) Max. allowable temperature: 60°C (140°F)

■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, ϕ 0.8 mm- ϕ 1.6 mm, are available.
- Use in air with large amounts of foreign matter is possible.



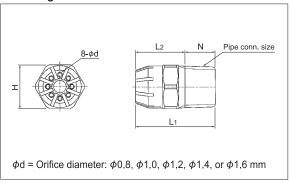






Material: S316L equivalent Max. air pressure: 1.0 MPa (140 psi) Max. allowable temperature: 400°C (750°F)

■Drawing



Orifice diameter	Pipe conn. size		Orifice diameter	Air consumption (l/min, Normal)			
code	1/8 M	1/4M	(mm)	0.1 MPa	0.3 MPa	0.5 MPa	
8-008	0	_	0.8	80	155	235	
8-010	0	0	1.0	125	245	365	
8-012	0	0	1.2	180	360	540	
8-014	0	0	1.4	240	480	720	
8-016	_	0	1.6	320	630	940	

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

■Dimensions and mass

Pino conn cizo		Mass			
Pipe conn. size	L1	L2	Н	N	(g)
1/8 M	20	13	12	7	7
1/4 M	25	15.5	14	9.5	12

How to order Please inquire or order for a specific nozzle using this coding system. 1) Plastic 2 Stainless steel <Example> 1/8M TF-R 8-010 S316L-IN 1/4M TF-R 8-010 PP-IN 1/8M TF-R 8-010 S316L-IN ■1/8M ■8-008 ■8-012 ■8-016 1/4M **8-010 8-014**

Air Booster Nozzles

For compressors

Cluster Header 3-Cluster Header

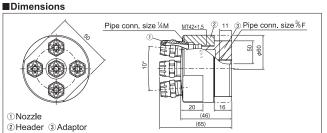
FEATURES

- 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.





- 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.

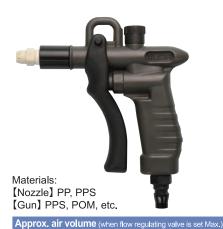
<Example> 3/8F TF-M5R 8-010 S303

3/8F TF-M5R 8-010 S303

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



For compressors

Air Blow Gun

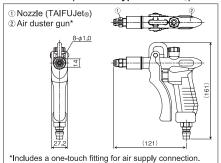
FEATURES

• Easier handling with air duster gun.

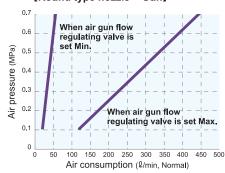
Three types available.

Air capacity adjustability (as standard equipment)

■Dimensions (w/ round-type TAIFUJet®)



[Round type nozzle + Gun]



■ 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

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

FEATURES

•Air nozzle with a 42 mm wide even jet.



Flat Type

- 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.

Plastic

TF-BF



Material: ABS Mass: 26 g

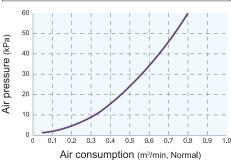
Max. air pressure: 100 kPa (14 psi) Max. allowable temperature: 80°C (170°F) Metal TF-BF



Material: Aluminum A5052

Mass: 65 g

Max. air pressure: 100 kPa (14 psi) Max. allowable temperature: 316°C (600°F) B-\$\phi_3.0 \qquad \qqqq \qqq \qqqq \qqq \qqqq \qqq



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.



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



TF-BR



Material: ABS Mass: 8 g

Max. air pressure: 100 kPa (14 psi) Max. allowable temperature: 80°C (170°F) Metal

TF-BR

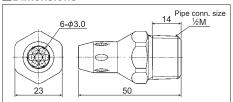


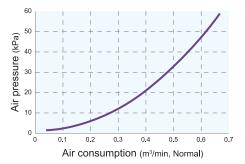
Material: Aluminum A5052

Mass: 20 g

Max. air pressure: 100 kPa (14 psi)
Max. allowable temperature: 400°C (750°F)

■Dimensions





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> $^{1}/_{2}M$ 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 ϕ 3 mm orifices in 42 mm-wide tip units. Available in lengths of multiples of 42 mm.



Plastic

► Lightweight plastic, long type.

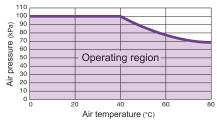


Material: PPS (nozzle tip), HTPVC (pipe header)

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	Сар	HTPVC	PPS for 21/2"
4	Adaptor	HTPVC	PPS for 21/2"
(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	

■Drawing (L1=42 mm x the number of nozzle tips) (10) (11) (12)

Configurations may differ depending on nozzle codes.

Sealing materials are used for assembly of some parts.

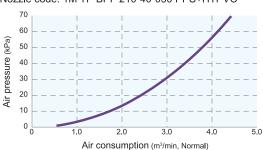
■Dimensions and mass

Pipe conn.	Number of	Outer di	mensi	ons (m	m)	Mas	S (g)
size	size nozzle tips		L2	Lз	L4	TAIFUJet.	Plate
1M	2 - 5	84 – 210	45	48	36	180 – 270	200
11/2M	6 – 13	252 - 546	56	66	44	530 - 840	500
2M	14 – 22	588 - 924	66	73	50	1,350 - 1,830	500
21/2M	23 – 38	966 – 1,596	74	84	58	2,940 - 3,900	500

STANDARD PLASTIC MODELS

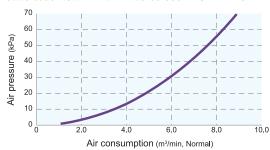
■1", 210 mm spray width

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



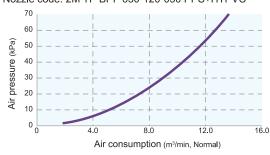
■11/2", 420 mm spray width

Nozzle code: 11/2M TF-BPF 420-80-030 PPS+HTPVC



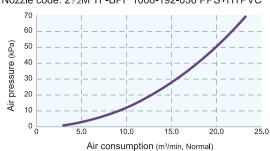
■2", 630 mm spray width

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



■2¹/₂", 1,008 mm spray width

Nozzle code: 21/2M 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.

FEATURES

Stainless Steel

- •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.

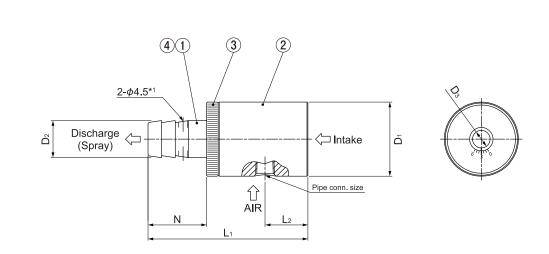






Inserting a round rod from here, adjustment scale dial can be turned

■Drawing



■ Dimensions and mass

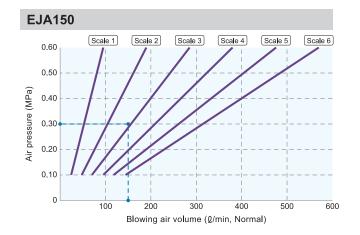
Pipe connection size		Outer dimensions (mm)						
	L ₁	L2	φD1	φD2	φDз	Mass (g)		
1/8F	82	22	38	19	9	405		
1/4F	91	24	50.8	32	20	700		
3/8F (450)	101	27	76.3	50.8	40	1,520		
³ /8F (750)	104	29	101.6	76.3	62	2,370		

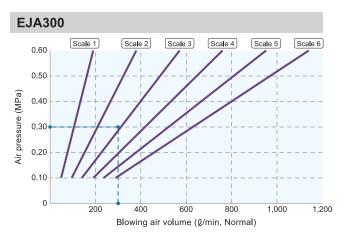
Figures in () after the pipe connection sizes indicate the air capacity codes.

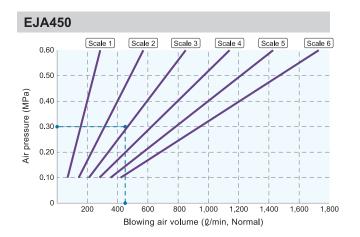
Component	Material
① Body	S303
② Adaptor	S303
3 Lock nut	S303
④ O-ring	NBR

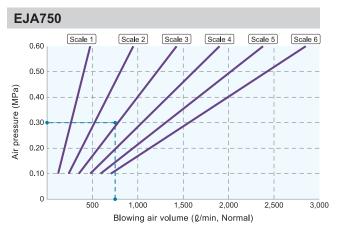
^{*1)} Position of opening for airflow adjustment with round rod

EJA series





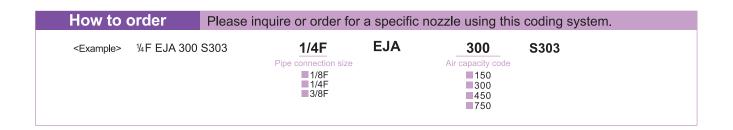




Scales 1–6 are the graduated scale markings on the nozzle for airflow adjustment.

Air capacity code	Pipe connection size	Air consumption (Q/min, Normal)*2						
	i ipe connection size	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".

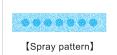


Disassemblable Stainless Steel

FEATURES

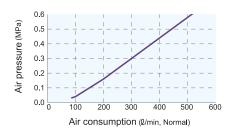
- Produces uniform air flow from multi orifices.
- •Noise level reduced by more than 10 dB (A) compared to a one-hole air nozzle.
- •Compact design, 47 mm in length (47.5 mm for 3/8M).
- •Detachable into three parts, easy to clean the nozzle orifices.
- •Made of stainless steel with high resistance to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





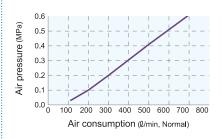
7-012 Air spray width and thickness (mm)

Pressure	0.1	MPa	0.3	MPa	0.4 MPa		
Distance	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	



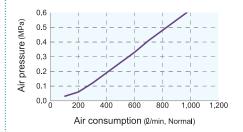


14-010 Air spray width and thickness (mm)							
Pressure	0.1	MPa	0.3	MPa	0.4 MPa		
Distance	Width	Thickness	Width	Thickness	Width	Thickness	
50 mm	60	40	70	60	80	60	
150 mm	120	80	140	120	150	120	
300 mm	170	120	200	150	220	160	

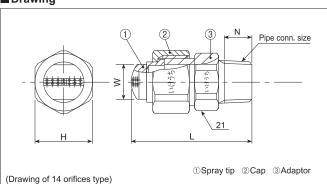




19-010 Air spray width and thickness (mm)							
Pressure	0.1	MPa	0.3	MPa	0.4 MPa		
Distance	Width	Thickness	Width	Thickness	Width	Thickness	
50 mm	60	40	80	60	80	60	
150 mm	120	80	140	120	150	120	
300 mm	180	120	210	150	230	160	



■ Drawing



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

■ Dimensions and mass

Pipe connection size	Ou	Mass			
i ipe connection size	L	Н	W	N	(g)
1/4 M	47.0	23.0	14.0	10.5	70
3/8 M	47.5	23.0	14.0	11.0	75

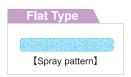
Flat Spray Nozzles

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.

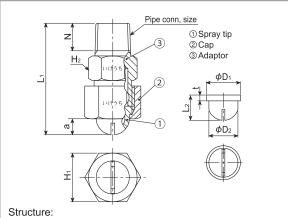


▶ Produces a flat spray pattern of air or steam.



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

■Drawing



- Comprises three parts: spray tip, cap, and adaptor.
- •Worn-out spray tip can be replaced separately.
- Cap and adaptor are exchangeable with those of three-piece structure standard flat spray nozzles (for liquids).

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

■ Dimensions and mass [Complete nozzle]

Pipe connection		Outer	Mass (g)				
size	L ₁	H₁	H ₂	N	а	S303	В
1/4 M	43	19	17	10.5	6.5	44	47
3/8 M	48.5	23	21	11	9.5	73	78

■ Dimensions and mass [Spray tip]

Pipe connection size of	0	uter dim	Mass (g)			
complete nozzle	L ₂	φD ₁	φD ₂	t	S303	В
1/4 M	11	14.5	12.5	2.5	4.7	5.0
3/8 M	14	18	16	2.5	7.7	8.1

Spray	Air capacity	Pipe connection size Air capacity (2/min, Normal)					Steam capacity (kg/hr)					Free passage				
code	code	½M	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	diameter (mm)
	150	0		55.7	77.6	116	154	230	307	2.62	3.56	5.27	6.97	10.3	13.7	0.2
	200	0		73.1	102	152	202	302	402	3.44	4.67	6.92	9.14	13.6	17.9	0.3
	250	0		90.5	126	188	250	374	498	4.26	5.78	8.57	11.3	16.8	22.2	0.4
	300	0		108	150	224	298	446	594	5.08	6.90	10.2	13.5	20.0	26.5	0.5
	350	0		125	175	261	346	518	690	5.90	8.00	11.9	15.7	23.2	30.7	0.6
	400	0		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	8.0
90	500	\circ		177	247	369	491	734	977	8.36	11.3	16.8	22.2	32.9	43.5	0.9
	550		0	199	278	414	551	823	1,096	9.38	12.7	18.8	24.9	36.9	48.8	0.6
	600		0	219	305	455	605	905	1,205	10.3	14.0	20.7	27.4	40.6	53.7	0.7
	650		0	235	328	489	650	972	1,295	11.1	15.0	22.3	29.4	43.6	57.7	0.8
	700		0	253	353	526	700	1,047	1,394	11.9	16.2	24.0	31.7	46.9	62.1	0.8
	750		0	272	380	566	753	1,126	1,500	12.8	17.4	25.8	34.1	50.5	66.8	0.9
	900		0	326	454	677	901	1,347	1,794	15.3	20.8	30.8	40.7	60.4	79.9	1.1
	1130		0	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	or a specific nozzle using this coding system.
①Complete nozzle	<example> 1/4M VZ 150 S303</example>	② Spray tip only <example> 1/4 VZ 150 S303</example>
1/4M VZ	150 S303	1/4 VZ 150 S303
Pipe conn. size ■1/4M ■3/8M	Air capacity Material S303	Pipe conn. size 1/4 3/8 Air capacity Material S303 150 B 1130



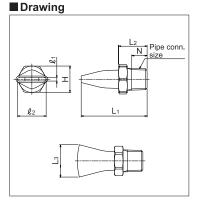
For blowers

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.

50



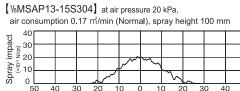
■ Dimensions and mass

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

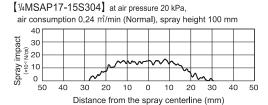
Pipe conn.	Ai	r consu	mption ((ℓ/min, Normal)			
size	10 kPa	20 kPa	30 kPa	40 kPa	50 kPa		
1/8 M	120	170	208	239	266		
1/4M	167	235	287	330	368		

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

■ Spray impact distribution



30 10 Distance from the spray centerline (mm)



How to order

Please inquire or order for a specific nozzle as below.

1) Pipe 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

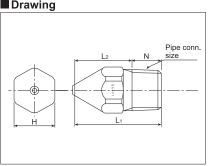
Stainless Steel

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 ϕ 1.0 to ϕ 2.5 mm.
- •Delivering good performance for low cost, ideal for use in large quantities.



■ Drawing

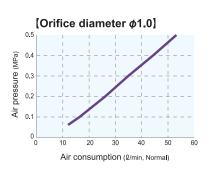


■ Dimensions and mass

Pipe conn.

1/8 N	1	21	14		10		7		7.2	
1/4 I V	1/4 M		19.	5	1	14		10.5	19	
Orifice	Pipe	Air	Air consumption (@/min, Normal)							
diameter code	conn. size	0.1 MPa	0.2 MPa		.3 Pa	0.4 MPa		0.5 MPa	diameter (mm)	
φ1.0A		17	26	3	35	44	1	53	1.0	
φ1.5A	1/8 M	40	60	8	30	100)	120	1.5	
φ2.0A	1/4M	70	104	13	38	172	2	206	2.0	
φ2.5A		109	162	2	15	268	3	321	2.5	

Outer dimensions (mm)



How to order

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

1/8M CCP φ1.0A S303 <Example>



φ1.0A	S303
Orifice diame φ1.0A φ1.5A	φ2.0A

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



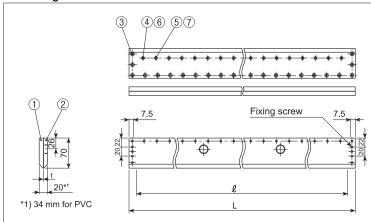
Please inquire with us for details of lightweight type.

■ Dimensions and mass

Slit length	Slit opening	Number of	Thread	size	Total length (mm)	Mass (kg)	
ℓ (mm)	t (mm)	inlets	Fluid inlet	Fixing	L	S304	PVC
530			3/8F		560	5.0	1.5
700		2			730	6.5	1.9
810	0.1		1/2F	M5	840	7.5	2.2
900		3	1/21		930	8.0	2.5
1,400					1,430	12.0	4.0
700 810 900 1,400	0.1		1/2F	M5	730 840 930	6.5 7.5 8.0	1.9 2.2 2.9

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



- ①Body A (S304)
- ②Body B (S304)
- 3 Bolt [M5×10] (S304)
- 4 Bolt [M4×8] (S304)
- ⑤Bolt [M4×10] (S304)
- ⑥ O-ring [P-4] (FKM)
- ⑦O-ring (FKM)

The above drawing is of stainless steel SLNHA-H series. Please contact us for the drawing for PVC-made SLNHA-H series.

■Spray impact distribution

[Nozzle: SLNHA-H 850×0.1]

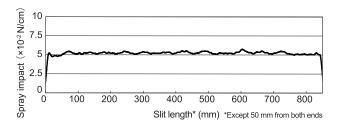
Slit opening: 0.1 mm

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: +/-6.5%

Slit length	Slit opening	Air consumption (@/min, Normal)*2											
(mm)	(mm)	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		209	355	472	570	657	736	810	880				
700		276	469	623	753	868	972	1,070	1,160				
810	0.1	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 ×0.1 2 SLNHA-H 530 **PVC** 3/8F Number of ■3/8F **■**530 **■**900 S304 2 3 ■700 ■1400 ■810 1/2F PVC

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.





■ Dimensions and mass

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

^{*}The number of inlets differs by slit opening width.

■ Drawing 7.5 7.5 2×2-M5 depth 8 20 2 ①Body A ②Body B ③Bolt (M5×10) ☆Fixing screw

SLNHA-NA series

■Spray impact distribution

[Nozzle: SLNHA-NA 700×0.1]

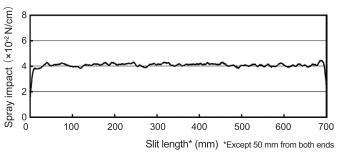
Slit opening: 0.1 mm

Slit length: 700 mm

Spray height: 5 mm

Air pressure: 0.05 MPa

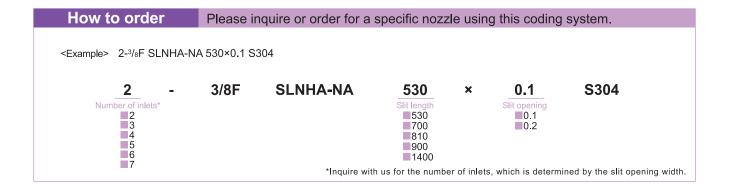
Air consumption: 720 l/min, Normal



Spray impact

Max. value: 4.31×10² N/cm
Min. value: 3.83×10² N/cm
Median value: 4.07×10² N/cm
Deviation from median: +/-5.9%

Slit length	Slit opening			Ai	r consumption	(l/min, Norm	al)		
(mm)	(mm)	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		198	299	389	471	545	617	747	865
700		262	395	514	622	720	815	986	1,140
810	0.1	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		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	0.2	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



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]

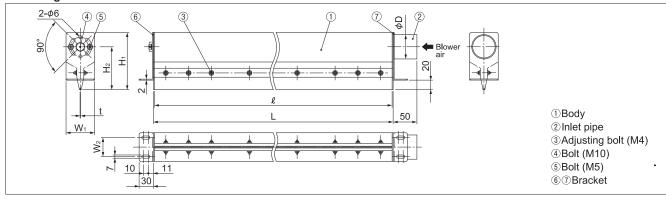


■ Dimensions and mass

	Air inlet	Slit length	Slit opening		Out	er dime	nsions (mm)		Mass
	type	l (mm)	t (mm)	L	H1	H ₂	W ₁	W2	φD	(kg)
	D38 400 800	400		404						1.9
			604	105	80	50	30	38.0	2.7	
ט38	800	0.5	804	103	80	50	30		3.5	
	D50	1,000		1,004						4.3
		1,200		1,204	120	90	60	40	50.8	5.9
	D38	400		404	105	80	50	30	38.0	1.9
	DEO	600		604	120	90	60	40	50.8	3.2
	D50	800	1.0	804	120	90	00	40	30.0	4.1
		1,000		1,004	140	102.5	75	50	C2 F	6.2
D65	1,200		1,204	140	102.5	7.5	50	63.5	7.4	

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

■ Drawing

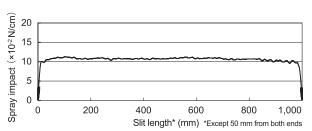


■Spray impact distribution

[Nozzle: SLNB1000×0.1]

Slit opening: 1.0 mm
Slit length: 1,000 mm
Spray height: 5 mm
Air pressure: 5.2 kPa





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: +/-7.6%

Slit length	Slit opening		Air consumption (m³/min, Normal)*								
(mm)	(mm)	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		1.91	2.81	3.52	4.13	4.67	5.16				
600		2.87	4.22	5.28	6.19	7.00	7.74				
800	1.0	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 o	order for a s	pecific r	nozzle using	thi:	s coding	system.
<example> D65 SLNB</example>	1200×1.0 S304-S-A	D65	SLNB	1200	×	1.0	S304-S-A
		Air inlet type D38 D50 D65		Slit length 400 1000 600 1200 800	S	■ 0.5 ■ 1.5	

Special Fittings

Universal Ball Joints UT series

FEATURES

Metal

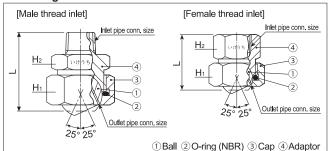
- Accurate nozzle alignment is possible after connected to pipe.
- Adjust spray direction over a range of 50 degrees as desired.
- •Available from 1/8" to 3/4" in pipe connection size.



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

This photo is UT Ball Joint with an air nozzle.

■ Drawing



■ Dimensions	and mas	ss	*WAF = width acro	oss flats
Rall joint code	Inlet nine	Dimensions (mm)	Mass	

Ball joint code	Inlet pipe	Outlet pipe	Dim	ensions	(mm)	Ma	SS (g)
(Inlet x Outlet)	conn. size	conn. size	L	H1(WAF)*	H ₂ (WAF)*	S303	В
UT ¹ /8M× ¹ /8F	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 /8M× ¹ /4F	3/8M	1/4F	40.0	29	24	110	115
UT ³ /8M× ³ /8F	3/8M	3/8F	47.5	35	30	190	205
UT1/2M×1/2F	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 /8F× ¹ /8F	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 /8F× ¹ /4F	3/8F	1/4F	33.5	29	24	100	110
UT ³ /8F× ³ /8F	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 /4F× ³ /4F	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.

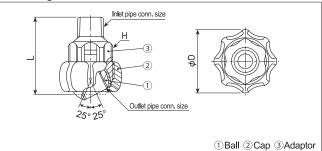


Material:

Adaptor and cap: FRPP

●Ball: FRPP + PP + EPDM

■ Drawing



■ Dimensions and mass

		ia iliass					
	Ball joint code	Inlet pipe	Outlet pipe	Dim	ensions	(mm)	Mass
	(Inlet x Outlet)	conn. size	conn. size	L	Н	φD	(g)
ĺ	UT ¹ /8M× ¹ /8F	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
	$UT^{1}/_{4}M\times^{1}/_{4}F$	1/4M	1/4F	40.0	21	32	12
	$UT^{3}/8M\times^{1}/8F$	3/8M	1/8F	41.0	21	32	13
	$UT^{3}/8M\times^{1}/4F$	3/8M	1/4F	41.0	21	32	12



Universal Joints WUT series



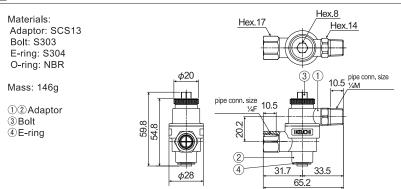
Photo is WUT Universal Joint with a spray nozzle.

Rotates 360°

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



How to order

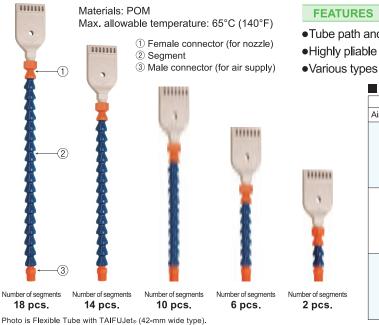
Please inquire or order as below.

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



- •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.

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

11010 13 1 107	Albic Tube with 17th	II 000t⊚ (+2 IIIIII	wide type).								
Н	low to or	der	Please	Please inquire or order for a specific tube using this coding system.							
When air	ir supply screw siz	ze ③ is 1/4M	<examp< th=""><th>ole> FT 1/4</th><th>POM</th><th colspan="5">When air supply screw size ③ is 1/8M</th></examp<>	ole> FT 1/4	POM	When air supply screw size ③ is 1/8M					
FT 1/	FT 1/4M × 1/4F Nozzle connecting screw size ① 1/8F 1/4F		en nozzle nnecting side is size 1/8F en nozzle nnecting side	76-2 POM Total length - Number of segments 71-2 250-14 de 131-6 309-18 190-10 76-2 POM 71-2 250-14 48 313-6 313-18			<example> FT ½M×½F 71-2 POM</example>				-14
Cautions 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 for										action force).	





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