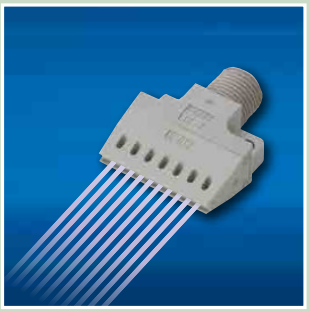
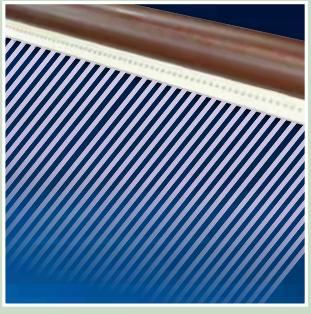
AN-8R_210210E
Rev. 4 (240401)

"The Fog Engineers"
H. IKEUCHI & CO., LTD.

IKEUCHI AIR NOZZLE CATALOG




The key to solve problems in manufacturing facilities:

Effective use of air.

Productivity and quality improvement, cost reduction, better work environment ...
There are so many challenges we are facing today.
If you are not sure where to begin, start by reviewing the usage of air and its effectiveness.
New air nozzles can help improve operational efficiency and reduce operating costs.

We have a large lineup of air nozzles that provide a **high and even blow impact**, **feature low operating noise**, and **save on air consumption while delivering a high volume of air**.
We look forward to helping you select the optimal nozzles based on your specific applications and requirements.

CONTENTS

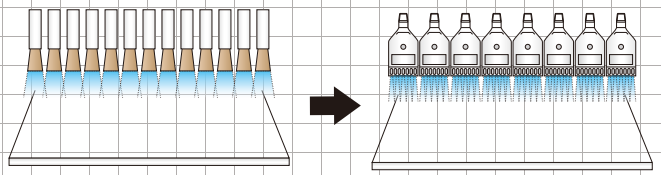
Switch to Energy-saving, High Impact Air Nozzles

45%

Energy savings*

To increase the blow effect, it is important to provide a uniform air stream impact, making an even distribution across the area.

An efficient air blow utilizes air and electric power without waste while reducing operating costs.



Single-hole nozzles 44 pcs.
Total air consumption:
17,600 L/min, Normal
(equivalent to compressor energy consumption of 100 kWh)

TAIFUJet® **23** pcs.
Total air consumption:
10,120 L/min, Normal
Air blowing volume:
20,700 L/min, Normal
(equivalent to compressor energy consumption of **55** kWh)

The first step in solving review and

Noise Reduction

Approx.

15 dBA

reduction in noise level*

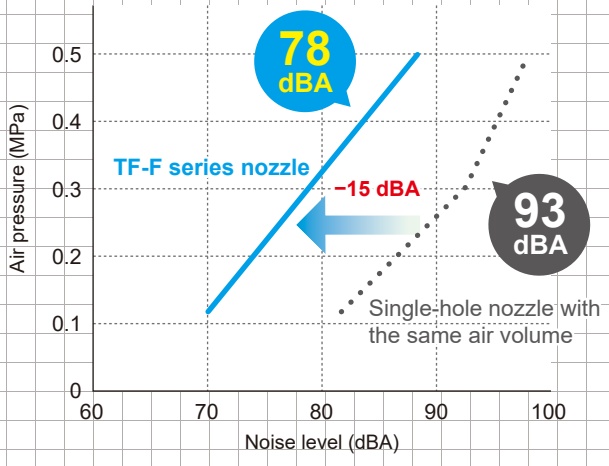
(80% reduction in sound pressure*)

Noise can be reduced by using nozzles that operate more quietly.

Sound level change and sound pressure ratio

Change of level	Ratio (X) for sound pressure
+15 dB	5.6 times
±0 dB	1
−15 dB	0.2 times

dB = 20 × log10(X)



Total annual cost savings

approx. 1.5 million yen* (US$14,800)

Product	Single hole nozzle	TAIFUJet®
Air consumption (L/min, Normal) per piece	400	440
Number of nozzles used	44	23
Electricity cost per year**	JPY3,400,000 (US$33,000)	**JPY1,870,000 (US$18,200)**

**Calculated with an annual operating time of 2,000 hours (approx. 8 hours/day) and an electricity rate of JPY17 (USD0.17)/kWh.

the problem —— upgrade the air nozzles.

Our sales representatives carefully identify each customer's needs through meetings and on-site visits before proposing the best solution based on our extensive experience.

*Results may vary depending on the conditions.

Increased Operating Efficiency and Productivity Through Automation

Installation of a sensor

Switching the manual air blow to an automatic sensor-operated air blow allows for a reduction in

Blow pressure	Blow time per piece
0.4 MPa to **0.25 MPa**	1 min. to **20 sec.**

Reviewing the operation operating

Making the Switch from Compressor to Blower

Reduces operating costs by approx. 66%*

We propose cost reductions through the use of blowers to customers who want to dramatically reduce power consumption.

*Results may vary depending on the conditions.

It triples the blow speed!

Required operating pressure reduced to 62%*

Automation can help improve the blow efficiency that was inconsistent during manual use and thereby lower the air consumption.

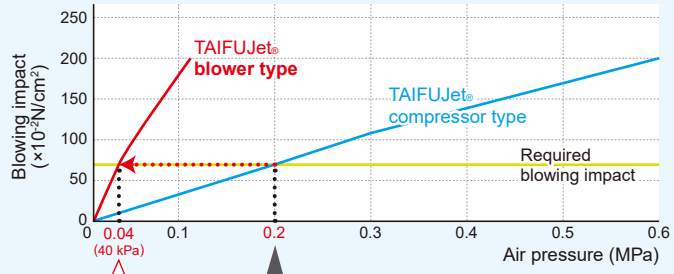
can help improve efficiency and costs.

Description		TAIFUJet® series (10 nozzles)	
Air supply source		Compressor	Blower
Nozzle specifications (per nozzle)	Air pressure	0.2 MPa	0.04 MPa
	Air consumption	3,300 L/min, Normal	7,500 L/min, Normal
Operating costs	Power consumption	Approx. 25.9 kW	**Approx. 8.9 kW**
	Annual operating cost	Approx. JPY880,600 (US$8,530)	**Approx. JPY302,600 (US$2,930)**
	Annual CO_2 emissions	Approx. 28.7 t	**Approx. 9.8 t**

Note:
The annual operating cost is calculated using an annual operating time of 2,000 hours (approx. 8 hours/day) and an electricity rate of JPY17 (USD0.17)/kWh.

Power consumption is calculated with a motor efficiency of 0.85 and CO_2 emissions of 0.555 kg CO_2 per kWh.

If the pressure drops, will the air blow effect weaken?



The same blowing impact can be achieved with our blower type nozzle at a lower pressure

Compressor type requires 0.2 MPa to have the same blowing impact

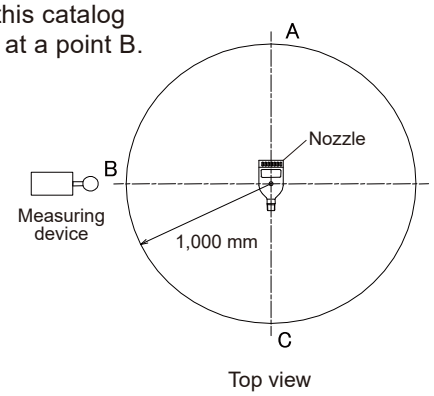
The decrease in pressure is compensated by the increase in airflow volume.

The air blow effect (blowing impact) does not change.

Technical Information

Noise Level Measurement

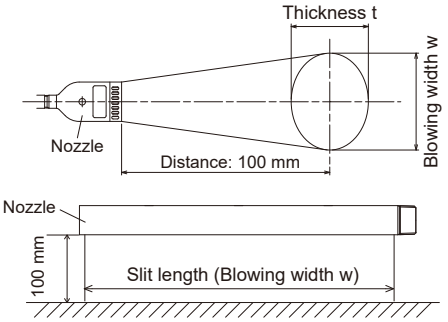
Noise levels are generally measured at three points A, B, and C, at a distance of 1,000 mm from the nozzle.
The nozzle is installed at a height of 1,000 mm.
Noise levels in this catalog were measured at a point B.



Top view

Blowing Pattern Measurement

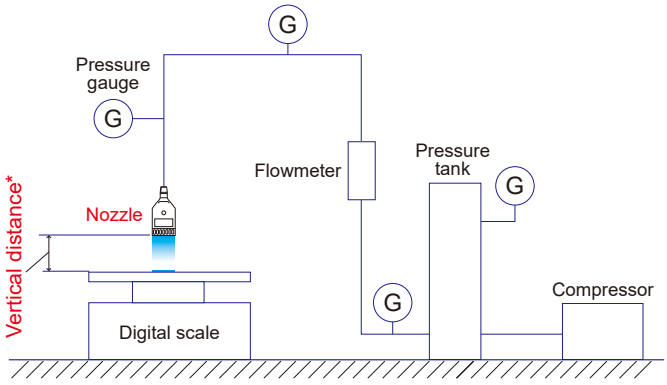
Blowing air spread is measured at 100 mm from the nozzle orifice.
The blowing width can be used as a guide for spacing nozzles.
The shape of the blow pattern is generally closer to a circle as the distance from the nozzle increases.



Blowing Impact Measurement

Blowing impact (blowing force) indicates the intensity of air applied to the target surface.
Air blown from the nozzle is received and measured by a digital scale.
The blowing impact increases with an increase of the air pressure supplied.

*Blowing impact in this catalog is measured 100 mm below the nozzle orifice except for SLNHA-H, SLNHA-NA, and SLNB series.



Nozzle Materials

The standard and optional materials available for nozzles are shown in the material section of each nozzle series, using the material codes listed here.

	Material code	Material
Plastics	ABS	Acrylonitrile butadiene styrene
	FRPP	Glass-fiber reinforced polypropylene
	HTPVC	Heat-treated polyvinyl chloride
	POM	Polyacetal
	PP	Polypropylene
	PPS	Polyphenylene sulfide
	PTFE	Polytetrafluoroethylene
	PVC	Polyvinyl chloride

	Material code	Material
Metals	S303	Stainless steel 303
	S304	Stainless steel 304
	S316	Stainless steel 316
	S316L	Stainless steel 316L
	B	Brass C3604
Rubbers	EPDM	Ethylene propylene rubber
	FKM	Fluororubber
	NBR	Nitrile rubber

Description of Thread Size and Type

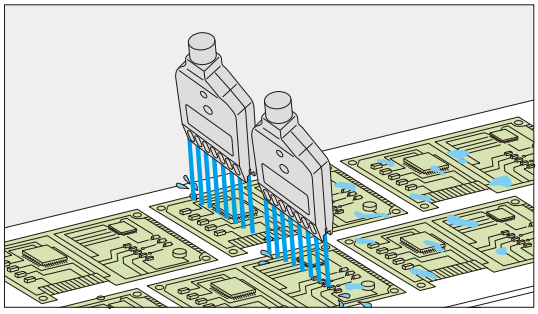
In this catalog, the connection thread size and type are described according to the ISO standard.
Threads noted in this catalog are tapered pipe threads unless otherwise specified.
When ordering our nozzles, please specify the thread size using our thread code. For example, "1/4M" is used instead of R1/4 and "1/4F" instead of Rc1/4 as shown right.

Thread type	ISO standard	Our thread code
Male tapered pipe threads	R1/4	1/4M
Female tapered pipe threads	Rc1/4	1/4F

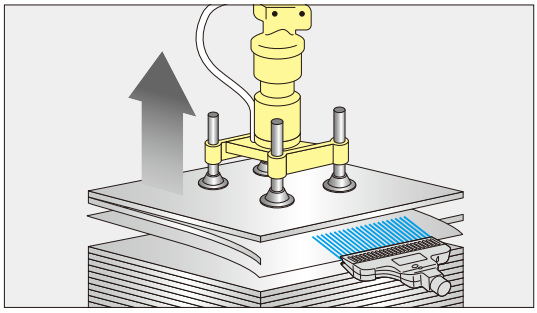
●Specifications of the products and contents of this catalog are subject to change without prior notice for purpose of product improvement.

Examples of Air Nozzle Usage

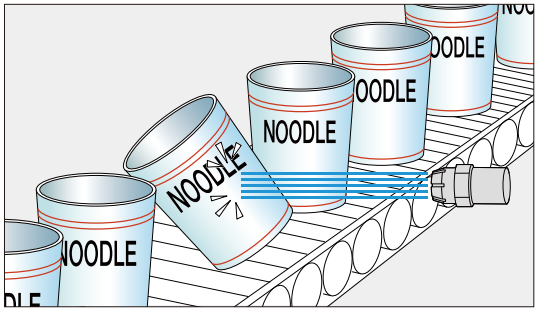
■ Blowing off drying after washing process



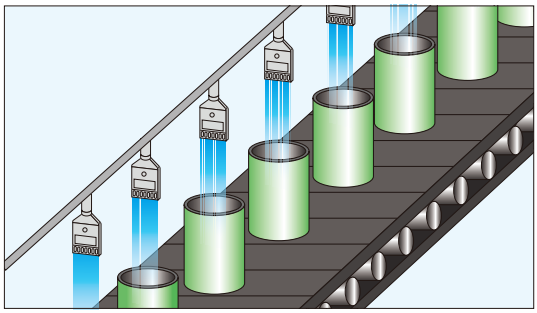
■ Prevent double feeding of steel plates during vacuum conveying



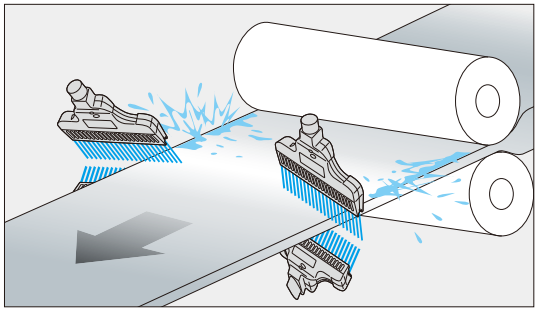
■ Sorting and rejection (blow-off) of defective products



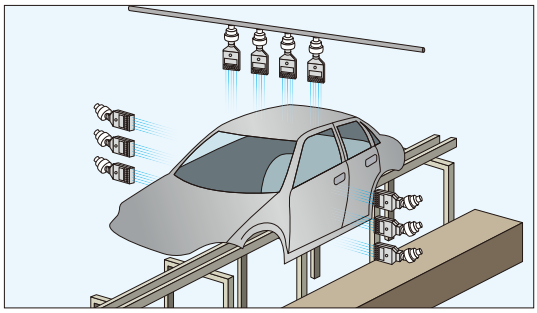
■ Blow-off drying of cans after cleaning, air rinsing of cans



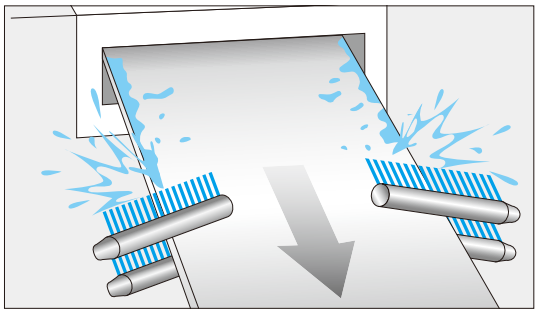
■ Blow-off dust/water under high temperatures



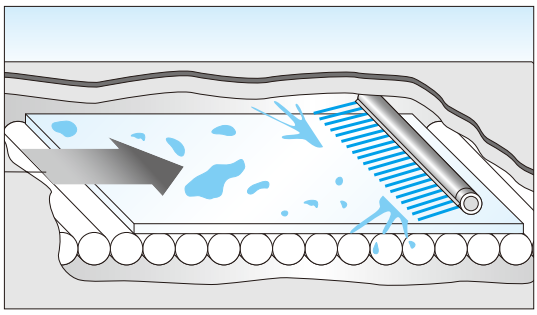
■ Blow-off dust before paint/coating process



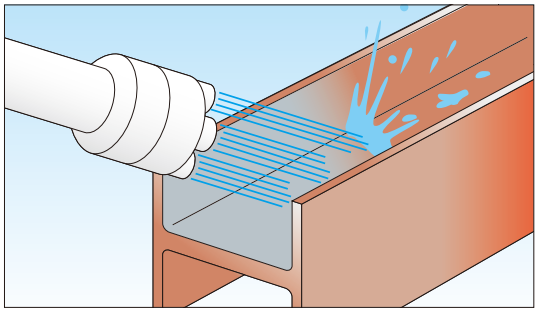
■ Edge wiper for steel surface treatment (Blow-off drying)



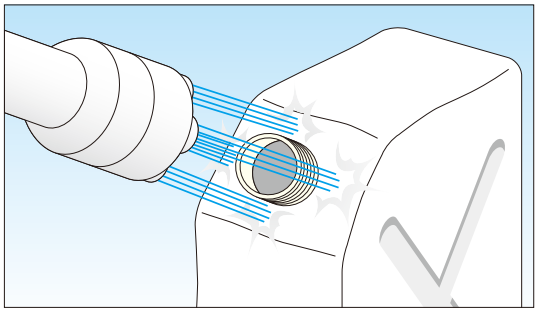
■ Installation in tight places or space-restricted areas



■ Blow-off water from shaped steel



■ Pinpoint cooling of molded plastic products



IKEUCHI Air Nozzle Lineup

Type	Flat Jet					
Page	pp. 11–12	pp. 13–15		pp. 16–18	pp. 19–20	pp. 21–22
Nozzle series	**TF-F24**	**TF-FS42**		**TF-F42**	**TF-F50**	**TF-F121**
Product photo						
Air supply	Compressor	Compressor		Compressor	Compressor	Compressor
Main material	PPS	PPS	S316L equiv.	PPS	S304	PPS
Weight	4 g	9 g	38 g	30 g	140 g	62 g
Max. operating pressure	0.7 MPa	0.7 MPa	1 MPa	0.7 MPa	1 MPa	0.7 MPa
Max. temperature	120°C [240°F]	80°C*2 [170°F]	400°C [750°F]	80°C*2 [170°F]	400°C [750°F]	80°C*2 [170°F]
Noise level at 0.3 MPa*1	76 dBA	79 dBA	73–82 dBA	77 dBA	82 dBA	82 dBA
Air consumption at 0.3 MPa*1	225 NL/min	440 NL/min	280–630 NL/min	440 NL/min	730 NL/min	1,250 NL/min
Features	• Compact • Low noise level • Uniform impact distribution			• Low noise level • Uniform impact distribution		

Type	Round Jet						
Page	pp. 32–34		pp. 35–36	pp. 37–38	pp. 60–61		
Nozzle series	**TF-R**		**TF-M5R**	**CCP-A**	**TF-BR**		
Product photo							
Air supply	Compressor		Compressor	Compressor	Blower		
Main material	PP	S316L equivalent & S303	S303	S303	ABS	Aluminum A5052	
Weight	2 g	7 g or 12 g	800 g	7.5 g or 19 g	8 g	20 g	
Max. operating pressure	0.7 MPa	1 MPa	1 MPa	1 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]	
Max. temperature	60°C [140°F]	400°C [750°F]	216°C [420°F]	400°C [750°F]	80°C [170°F]	150°C [300°F]	
Noise level at 0.3 MPa*1	78 dBA	71–87 dBA	83–91 dBA	66–84 dBA	86 dBA	86 dBA	
Air consumption at 0.3 MPa*1	245 NL/min	157–627 NL/min	1,225–3,136 NL/min	35–215 NL/min	478 NL/min	478 NL/min	
Features	• Low noise level • Powerful, high impact air stream		• Low noise level • High volume and powerful air flow	• Targeted, high impact solid air stream	• Low noise level • Powerful, high impact air stream • Minimal air use		

Type	Air Amplifier	Air Blow Gun	
Page	pp. 48–52	pp. 53–54	
Nozzle series	**EJA**	**TF-GUN**	
Product photo			
Air supply	Compressor	Compressor	Compressor
Main material	S303	PP	PP & PPS
Weight	405–2,370 g	96 g	99 g or 124 g
Max. operating pressure	0.6 MPa	0.7 MPa	0.7 MPa
Max. temperature	*3	50°C [120°F]	50°C*2 [120°F]
Noise level at 0.3 MPa	83 dBA or less	—	—
Air consumption at 0.3 MPa	150–750 NL/min	225 NL/min*5	200–350 NL/min*5
Features	• Air amplifying nozzle • Applicable for powder transfer	• Air duster gun with TAIFUJet nozzle	

*1 The blower type (nozzle using blower air) was measured at 30 kPa.
*2 Heat resistance depends on the pressure applied.
*3 Inquire with us.
*4 Value for slit length of 800 mm.
*5 When air flow regulator valve is set to Max.

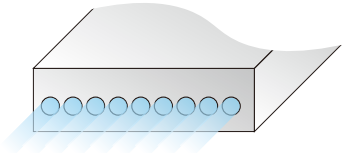
Flat Jet						
pp. 23–25	pp. 55–56		pp. 26–31		pp. 57–59	
HF	**TF-BF**		**TF-PF**		**TF-BPF**	
						
Compressor	Blower		Compressor		Blower	
S303	ABS	Aluminum A5052	S304	PPS & S304	PPS & HTPVC	Aluminum A5052
70 g or 75 g	26 g	65 g	360–13,800 g	950–3,800 g	220–4,360 g	—
1 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]	1 MPa	0.7 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]
400°C [750°F]	80°C [170°F]	150°C [300°F]	400°C [750°F]	80°C*2 [170°F]	80°C*2 [170°F]	150°C [300°F]
78–84 dBA	85 dBA	85 dBA	84 dBA or more	86 dBA or more	*3	*3
300–550 NL/min	565 NL/min	565 NL/min	1,150–15,100 NL/min	2,172–13,034 NL/min	2,940–15,500 NL/min	2,940–15,500 NL/min
• Low noise level • Thick blow pattern • Disassemblable	• Low noise level • Uniform impact distribution • Minimal air use		• Long flat nozzle • Low noise level • Uniform impact distribution		• Long flat nozzle using blower air • Uniform impact distribution • Minimal air use	

Slit Jet						
pp. 42–44		pp. 45–47	pp. 65–67	pp. 39–41	pp. 62–64	
SLNHA-H		**SLNHA-NA**	**SLNB**	**VZ**	**SAP**	
						
Compressor		Compressor	Blower	Compressor	Compressor	Blower
PVC	S304	S304	S304	S303	S304	S304
1.5–4.0 kg	5.0–12.0 kg	4.6–12.0 kg	1.9–7.4 kg	41 g or 69 g	10 g or 16 g	10 g or 16 g
0.1 MPa	0.3 MPa	0.1 MPa	30 kPa [0.03 MPa]	0.7 MPa	0.7 MPa	50 kPa [0.05 MPa]
*3	*3	*3	100°C or 150°C	*3	400°C [750°F]	400°C [750°F]
*3	*3	*3	90 dBA at 20 kPa*4	70–94 dBA	*3	75 dBA or 76 dBA
656–1,733 NL/min at 0.05 MPa		545–2,881 NL/min at 0.05 MPa	970–5,730 NL/min at 5 kPa	154–1,122 NL/min	736–1,016 NL/min	208–287 NL/min
• Long slit nozzle • Uniform impact distribution		• No need to adjust slit opening after maintenance	• Long slit nozzle using blower air • Minimal air use	• Tip replaceable • Wide-angle flat blow pattern • Possible to use steam	• Low cost, suitable for mass use • Suitable for use in tight spaces	

Type of Nozzle Orifices

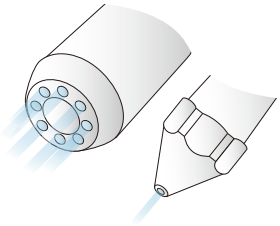
Flat Jet

Nozzle orifices are arranged in one row or multiple rows.
TAIFUJet flat type (using compressed air) is designed with a staggered alignment of nozzle orifices and intake holes, which results in a uniform impact distribution.



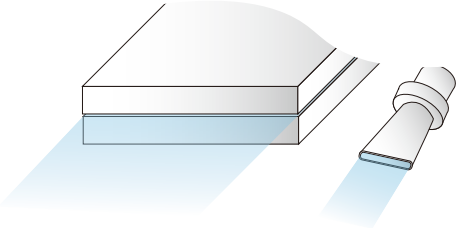
Round Jet

Single or multiple orifices are arranged in a circle, producing a directed round blowing pattern.



Slit Jet

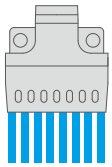
Wide flat blow or uniform sheet of air (like a curtain) is created from the thin slit nozzle orifice.



24 mm wide compact flat jet

TAIFUJet® TF-F24

For compressors



Blow pattern

- This ultra compact air booster nozzle (24 mm wide, 30mm long) is suitable for applications where flat blowing is required in tight spaces.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Suitable for smaller equipment and cost reduction.

Material
PPS

Max. temperature
120°C (240°F)

Weight
4 g

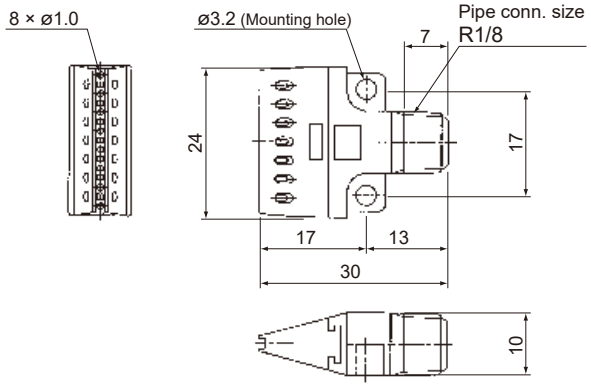
Noise level
76 dBA at 0.3 MPa

Max. operating pressure
0.7 MPa (100 psi)

Air consumption
225 L/min, Normal at 0.3 MPa

Drawing

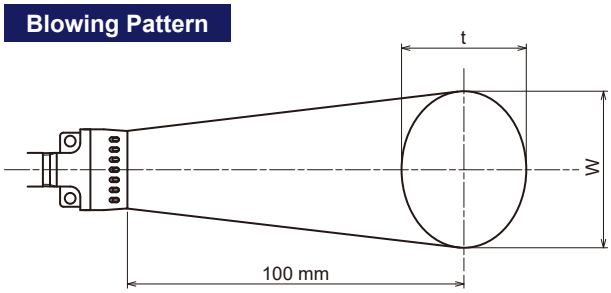
■1/8M TF-F 24-8-010 PPS-IN



Unit: mm

Adhesive is used for assembly of some parts.

Blowing Pattern



Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	35	45
0.3	40	45
0.5	40	45

Noise Level

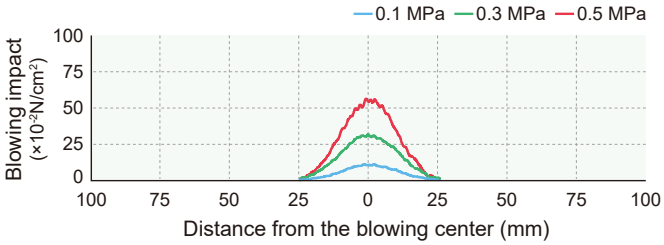
at a distance of 1,000 mm

Background noise: 46 dBA

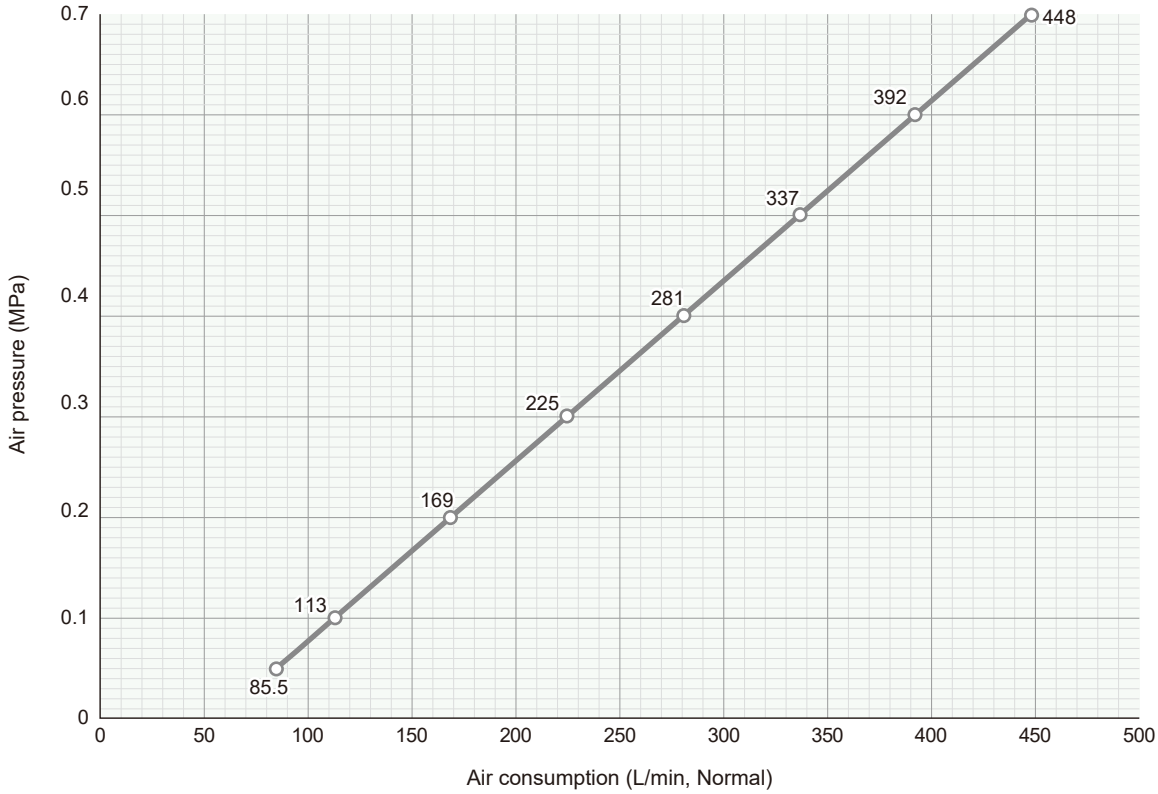
Pressure (MPa)	Noise level (dBA)
0.1	64
0.3	76
0.5	82

Blowing Impact Distribution

at 100 mm below the nozzle orifice



Air Consumption



HOW TO ORDER

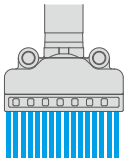
Please inquire or order using this product code.

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

42 mm wide flat jet, short version

TAIFUJet® TF-FS42

For compressors



Blow pattern

- This compact air booster nozzle (42 mm wide, 35 mm long) is suitable for applications where flat blowing is required in tight spaces.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Available in metal for orifice diameters of 0.8, 1.0, or 1.2 mm.
- Suitable for smaller equipment and cost reduction.

Material
Plastic: PPS, Metal: S316L equivalent

Weight
Plastic: 9 g, Metal: 38 g

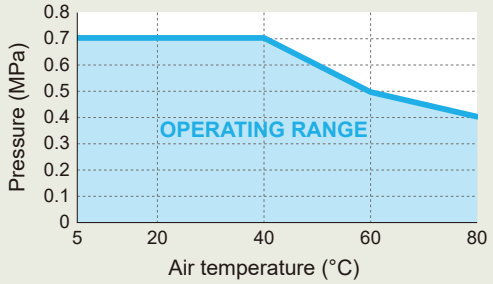
Max. operating pressure
Plastic[*1]: 0.7 MPa (100 psi), Metal: 1.0 MPa (140 psi)

Max. temperature
Plastic[*1]: 80°C (170°F), Metal: 400°C (750°F)

Noise level (at 0.3 MPa)
Plastic: 79 dBA, Metal: 73–82 dBA

Air consumption (at 0.3 MPa)
Plastic: 440 L/min, Normal
Metal: 280–630 L/min, Normal

Operating range of PPS model

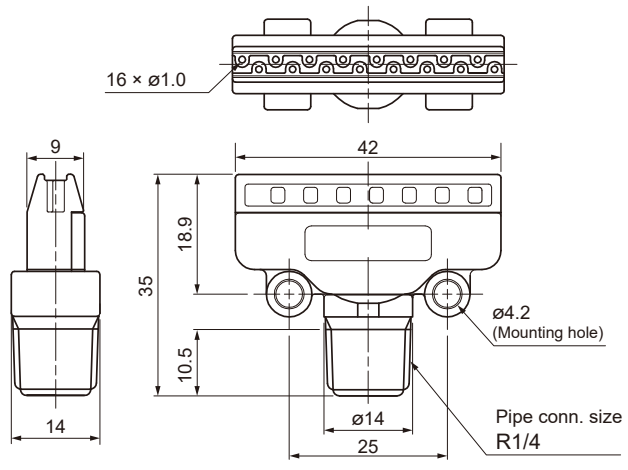


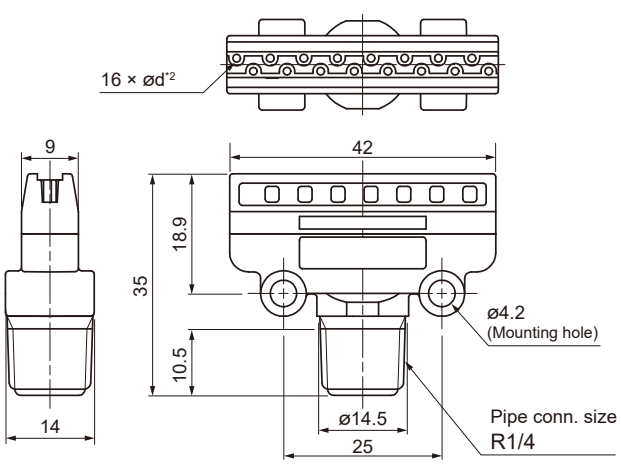
[*1] Heat resistance varies depending on the pressure applied. Blue colored area indicates the operating range of a PPS model.

Drawing

Plastic ■1/4M TF-FS 42-16-010 PPS

Metal ■1/4M TF-FS 42-16-008 S316L-IN
■1/4M TF-FS 42-16-010 S316L-IN
■1/4M TF-FS 42-16-012 S316L-IN

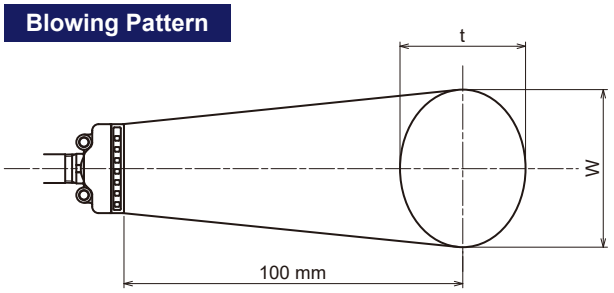




Unit: mm

[*2] ød = Orifice Diameter (OD): ø0.8, ø1.0, or ø1.2 mm

Blowing Pattern



Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	50	45
0.3	55	45
0.5	55	45

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

Plastic		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
ø1.0	0.1	68
	0.3	79
	0.5	85

Metal		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
ø0.8	0.1	62
	0.3	73
	0.5	79

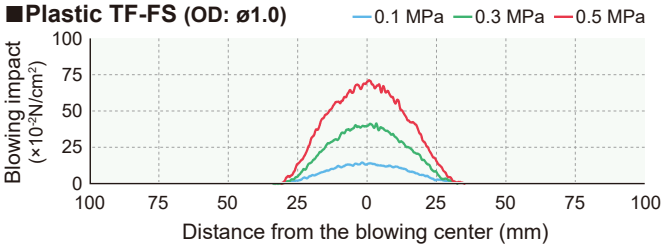
Metal		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
ø1.0	0.1	68
	0.3	78
	0.5	84

Metal		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
ø1.2	0.1	72
	0.3	82
	0.5	88

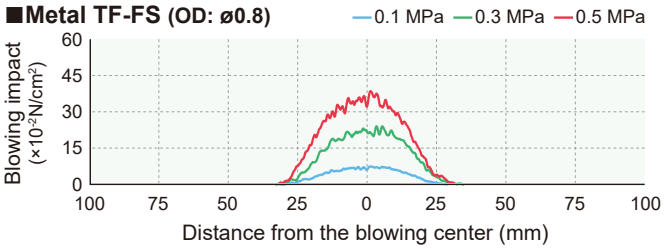
Blowing Impact Distribution

at 100 mm below the nozzle orifice

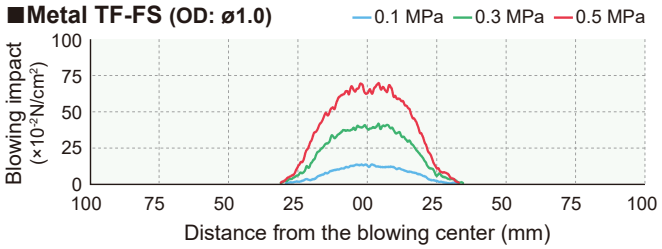
■Plastic TF-FS (OD: ø1.0)



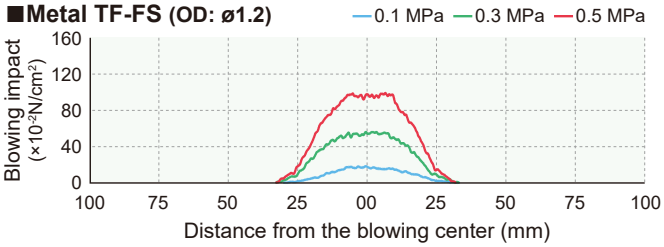
■Metal TF-FS (OD: ø0.8)



■Metal TF-FS (OD: ø1.0)



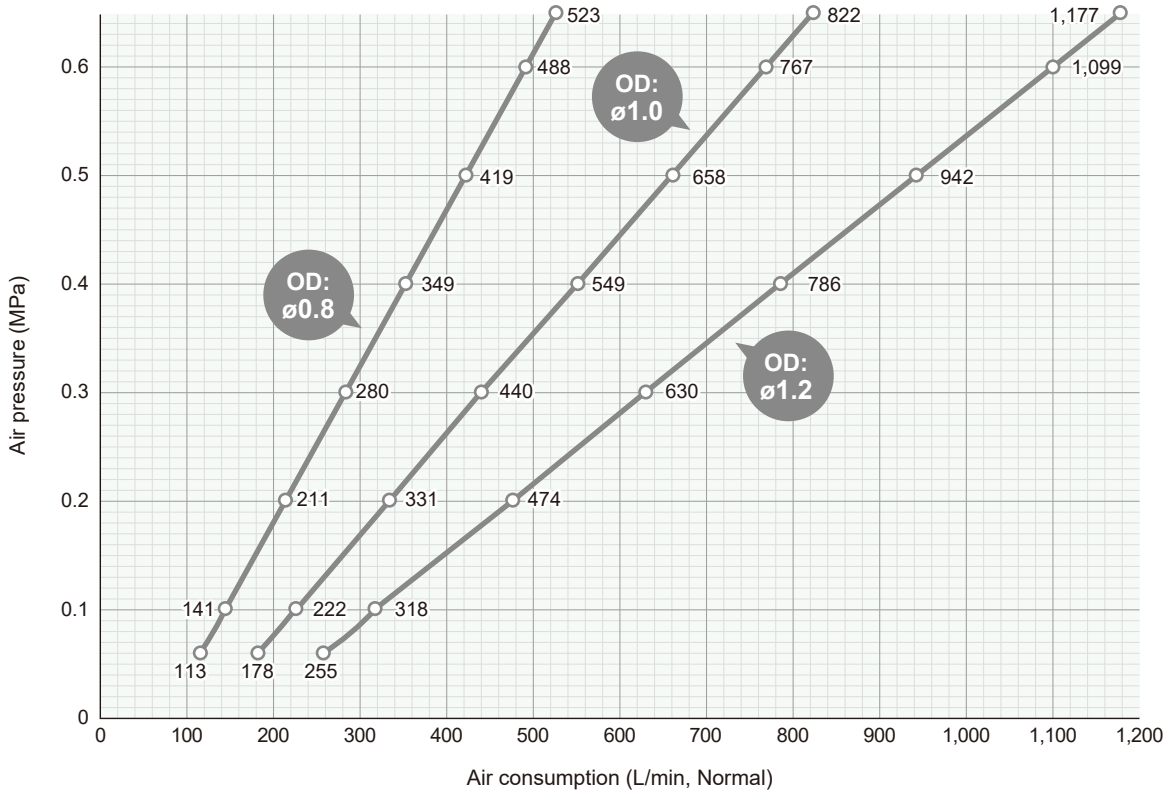
■Metal TF-FS (OD: ø1.2)



(OD = Orifice Diameter)

Air Consumption

Orifice diameter (OD) ø1.0 is available in both plastic and metal. ø0.8 and ø1.2 are only available in metal.



HOW TO ORDER

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

Plastic

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

Thread Type
- (PT)
- (NPT)

Metal

<Example> 1/4M(PT) TF-FS 42-16-010 S316L-IN

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

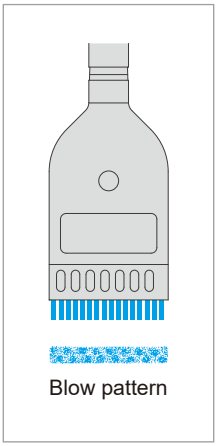
Thread Type
- (PT)
- (NPT)

Orifice Diameter Code
- 008 (ø0.8)
- 010 (ø1.0)
- 012 (ø1.2)

42 mm wide flat jet

TAIFUJet® TF-F42

For compressors



- Air booster nozzle suitable for applications where flat blowing is required.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- 42 mm wide air nozzle generating an effective flat blow through 16 orifices.

The metal version has been discontinued as of March 31, 2024.
For an equivalent metal option with the same performance, please consider the TF-FS42 Series on Page 13–15.

Material
PPS

Weight
30 g

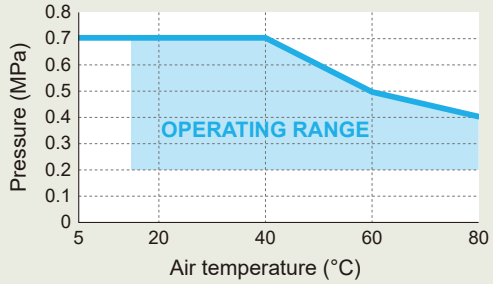
Max. operating pressure*1
0.7 MPa (100 psi)

Max. temperature*1
80°C (170°F)

Noise level (at 0.3 MPa)
77 dBA

Air consumption (at 0.3 MPa)
440 L/min, Normal

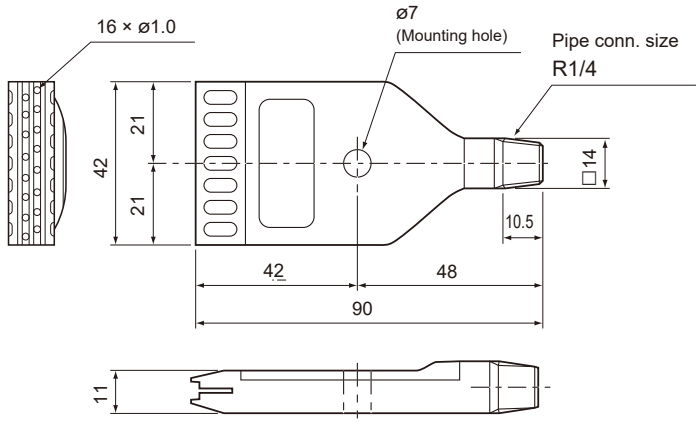
Operating range of PPS model



*1 Heat resistance varies depending on the pressure applied. Blue colored area indicates the operating range of a PPS model.

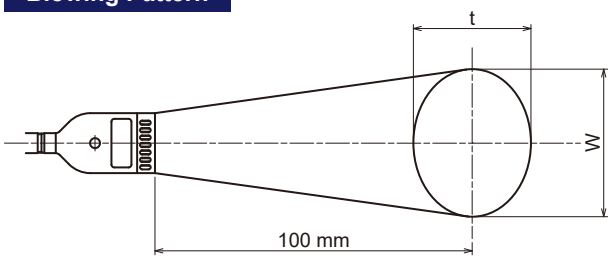
Drawing

■1/4M TF-F 42-16-010 PPS



Unit: mm

Blowing Pattern



Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	50	50
0.3	55	50
0.5	55	50

Noise Level

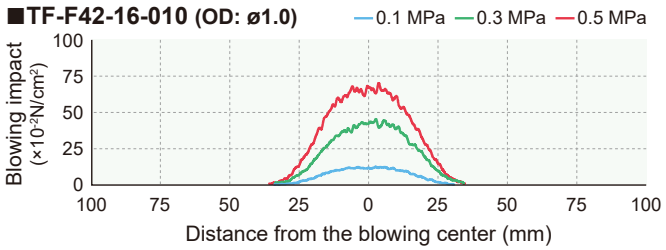
at a distance of 1,000 mm

Background noise: 46 dBA

Orifice diameter	Pressure (MPa)	Noise level (dBA)
ø1.0	0.1	64
	0.3	77
	0.5	84

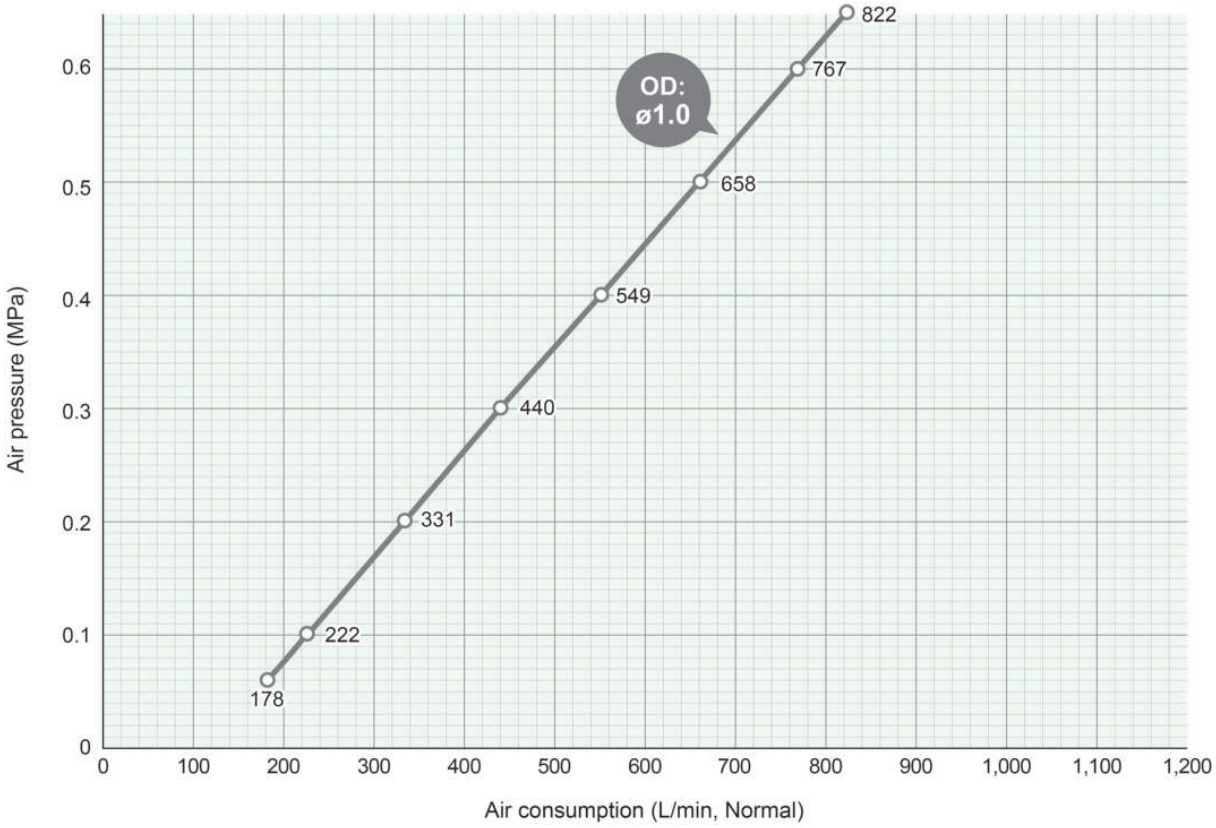
Blowing Impact Distribution

at 100 mm below the nozzle orifice



(OD = Orifice Diameter)

Air Consumption



HOW TO ORDER

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

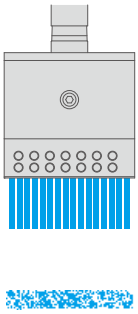
1/4M(PT) TF-F 42-16-010 PPS

Thread Type
- (PT)
- (NPT)

50 mm wide flat jet

TAIFUJet® TF-F50

For compressors



Blow pattern

- Air booster nozzle suitable for applications where flat blowing is required.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Compact and wider flat air nozzle, 50 mm wide and 65 mm long.

Material
S304

Max. temperature
400°C (750°F)

Weight
140 g

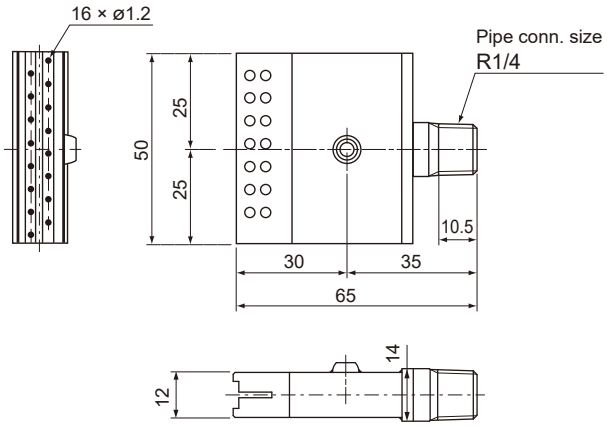
Noise level
82 dBA at 0.3 MPa

Max. operating pressure
1.0 MPa (140 psi)

Air consumption
730 L/min, Normal at 0.3 MPa

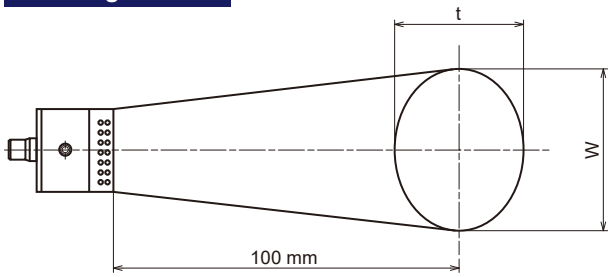
Drawing

■1/4M TF-F 50-16-012 S304



Unit: mm

Blowing Pattern



Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	60	55
0.3	65	55
0.5	65	55

Noise Level

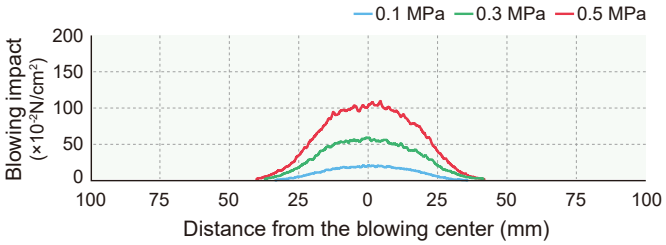
at a distance of 1,000 mm

Background noise: 46 dBA

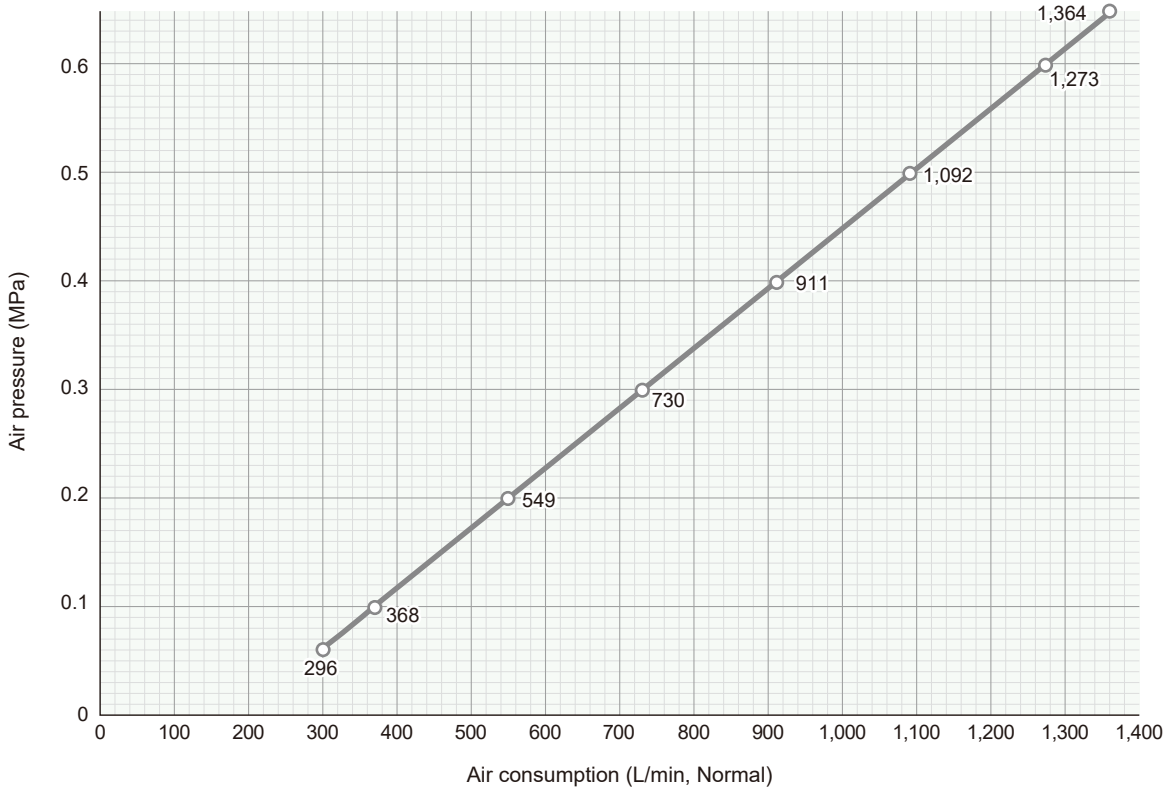
Pressure (MPa)	Noise level (dBA)
0.1	70
0.3	82
0.5	87

Blowing Impact Distribution

at 100 mm below the nozzle orifice



Air Consumption



HOW TO ORDER

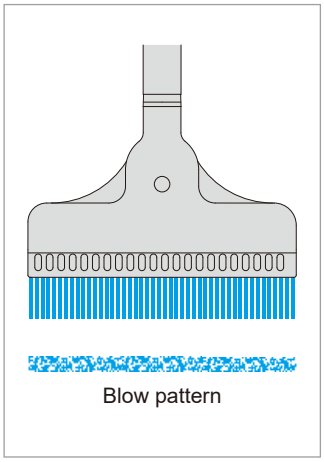
Please inquire or order using this product code.

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

121 mm wide flat jet

TAIFUJet® TF-F121

For compressors



Blow pattern

- Air booster nozzle suitable for applications where a wide laminar blowing is required.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Wide air nozzle (121 mm wide, 90 mm long) generates an effective flat blow through 46 orifices.

Material
PPS

Weight
62 g

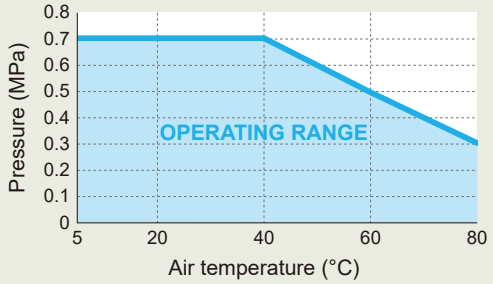
Max. operating pressure*
0.7 MPa (100 psi)

Max. temperature*
80°C (170°F)

Noise level
82 dBA at 0.3 MPa

Air consumption
1,250 L/min, Normal
at 0.3 MPa

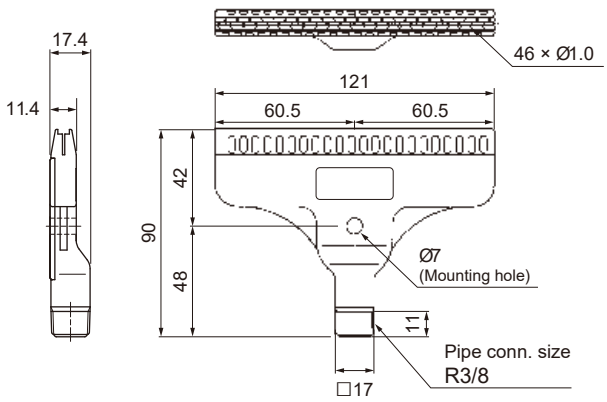
Operating range



*Heat resistance varies depending on the pressure applied.
Blue colored area indicates the operating range.

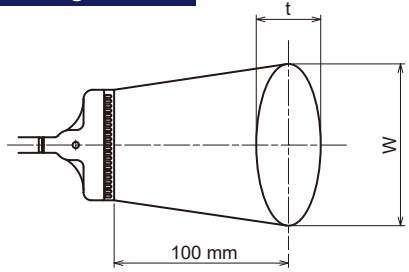
Drawing

■3/8M TF-F 121-46-010 PPS



Unit: mm

Blowing Pattern



Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	130	50
0.3	135	50
0.5	135	50

Noise Level

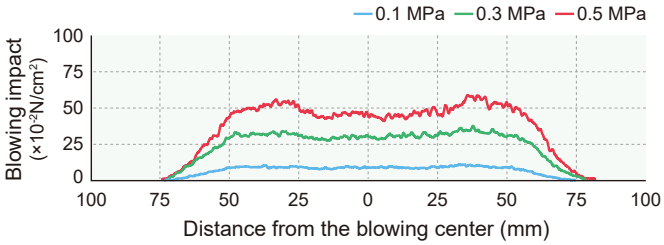
at a distance of 1,000 mm

Background noise: 46 dBA

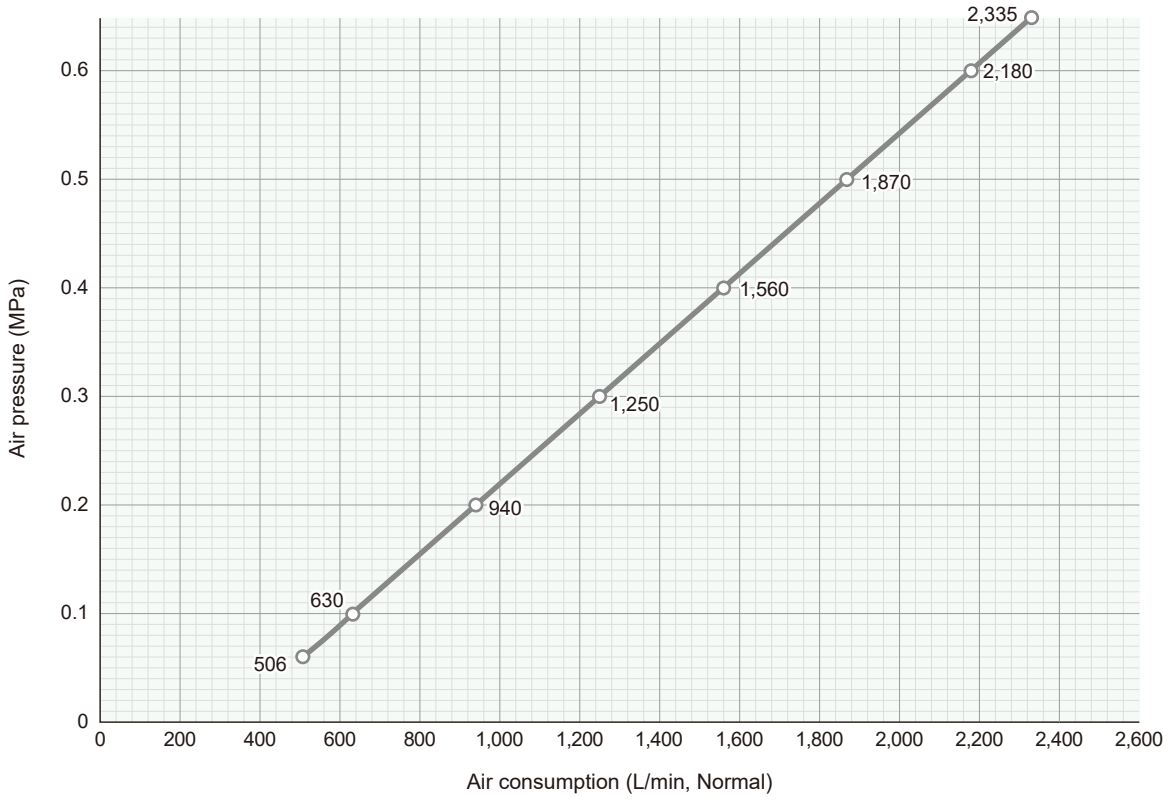
Pressure (MPa)	Noise level (dBA)
0.1	74
0.3	82
0.5	86

Blowing Impact Distribution

at 100 mm below the nozzle orifice



Air Consumption



HOW TO ORDER

Please inquire or order using this product code.

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

Thread Type
- (PT)
- (NPT)

Multi-orifice compact flat jet

HF

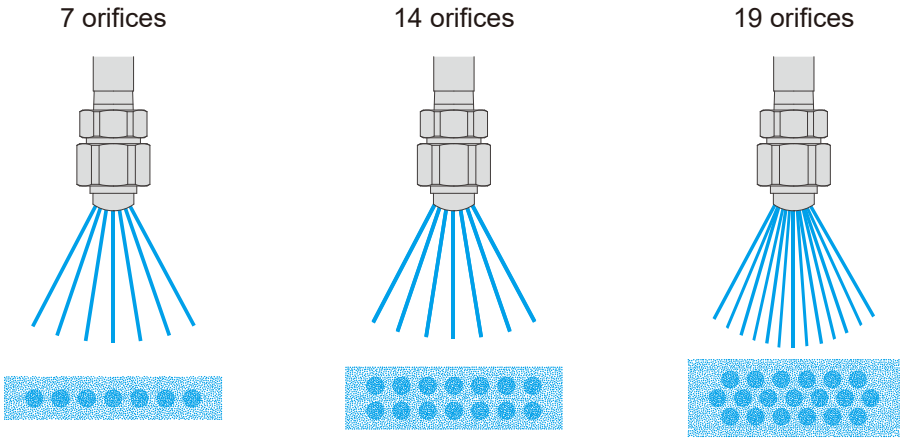
For compressors

- The compact, multi-orifice design achieves a flat blow with large coverage area.
- Available in three models: HF 7-012 (having 7 orifices), HF 7-014 (14 orifices), and HF 19-012 (19 orifices).
- Low noise level.
- Nozzle can be disassembled into three parts for easy cleaning of the orifices.

7 orifices
HF 7-012

14 orifices
HF 14-010

19 orifices
HF 19-010



Material
S303 (Optional material: S316)

Max. temperature
400°C (750°F)

Weight
Pipe conn. size R1/4: 70 g
Pipe conn. size R3/8: 75 g

Noise level
78–84 dBA at 0.3 MPa

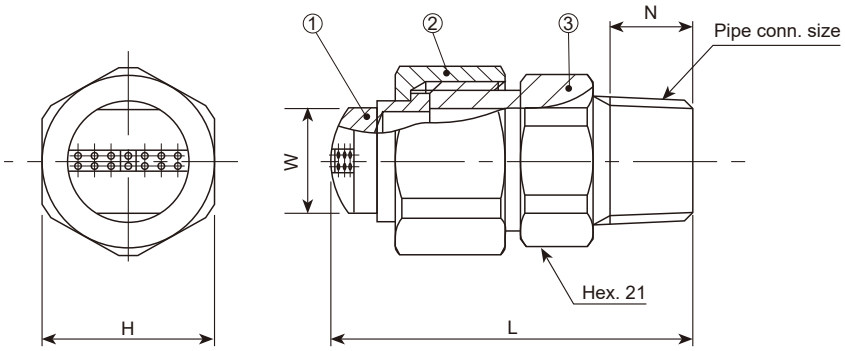
Max. operating pressure
1.0 MPa (140 psi)

Air consumption
300–550 L/min, Normal at 0.3 MPa

Drawing

■1/4M (or 3/8M) HF 14-010 S303

HF 7-012 and HF 19-010 have the same outer dimensions as HF 14-010
(but differ in the number of orifices as shown in the images on Page 23.)



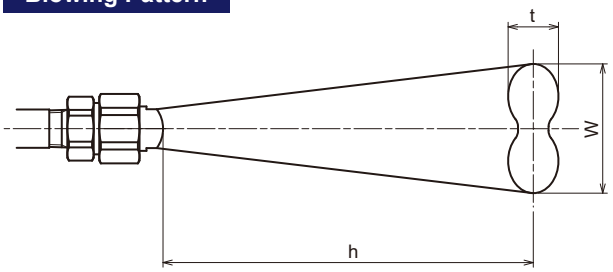
1. Nozzle tip 2. Cap 3. Adaptor

■Dimensions and weight

Pipe conn. size	Outer dimensions (mm)				Weight (g)
	L	H	W	N	
R1/4	47.0	23.0	14.0	10.5	70
R3/8	47.5	23.0	14.0	11.0	75

Unit: mm

Blowing Pattern



■HF 7-012 (7 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	65	70	80	25	30	40
150	115	125	145	65	80	85
300	150	185	210	105	135	150

■HF 14-010 (14 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	65	70	80	25	30	40
150	115	135	150	70	90	95
300	160	205	220	115	150	160

■HF 19-010 (19 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	70	75	80	25	30	40
150	115	135	150	70	90	100
300	165	210	230	125	160	170

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

■HF 7-012

Pressure (MPa)	Noise level (dBA)
0.1	66
0.3	78
0.5	83

■HF 14-010

Pressure (MPa)	Noise level (dBA)
0.1	69
0.3	81
0.5	88

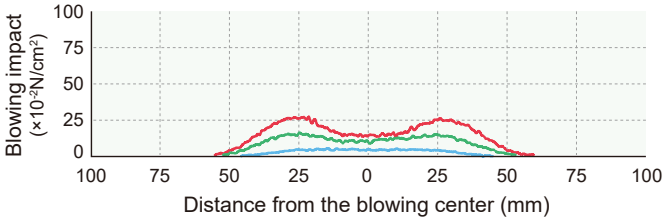
■HF 19-010

Pressure (MPa)	Noise level (dBA)
0.1	72
0.3	84
0.5	90

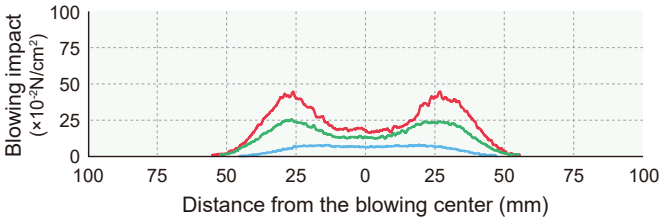
Blowing Impact Distribution

at 100 mm below the nozzle orifice

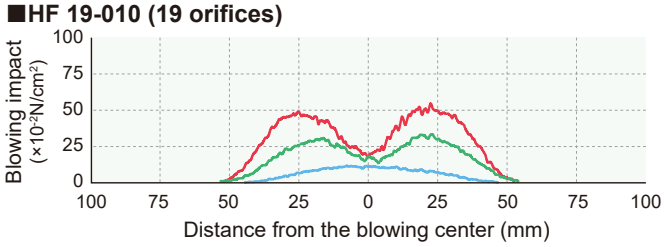
■HF 7-012 (7 orifices)

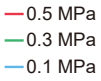


■HF 14-010 (14 orifices)

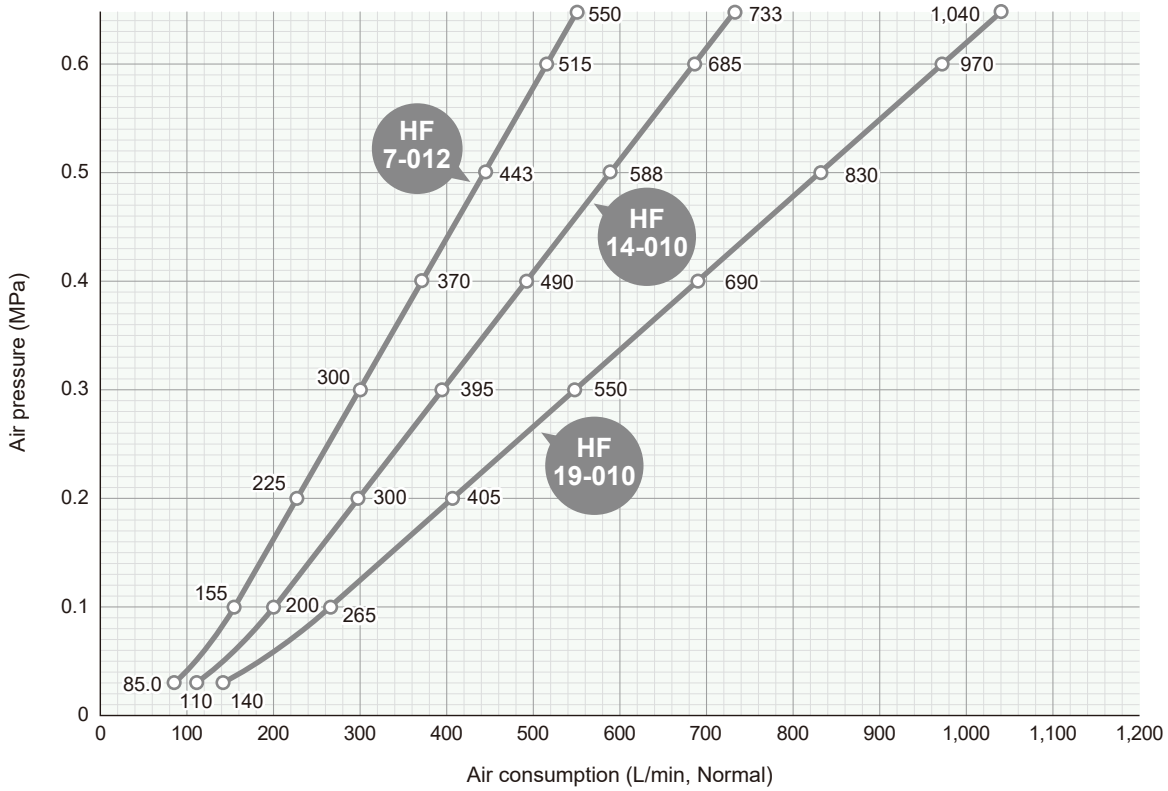


■HF 19-010 (19 orifices)





Air Consumption



HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system.
See Page 24 for selection.

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

1/4M HF 7-012 S303

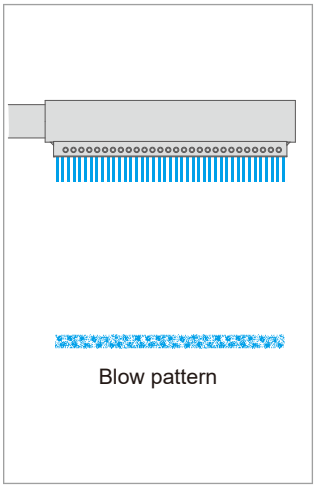
Pipe Conn. Size*	Orifice Code
●1/4M	●7-012
●3/8M	●14-010
	●19-010

*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/4M = R1/4.

Long flat jet

TAIFUJet® TF-PF

For compressors



- Long flat air booster nozzle suitable for installation in confined spaces.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Available in 13 different sizes covering a blow range from 100 to 1,400 mm in length. Starting at 500 mm in length there is an option for one or two inlets, one on each end.

Material
S304

Max. temperature
400°C (750°F)

Weight
360–13,800 g

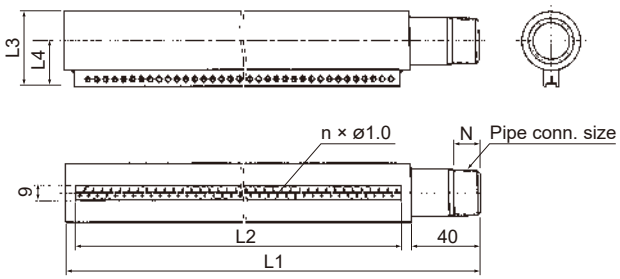
Noise level
84 dBA or more at 0.3 MPa

Max. operating pressure
1.0 MPa (140 psi)

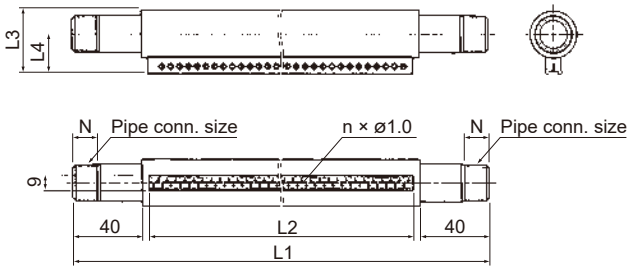
Air consumption
1,150–15,100 L/min, Normal at 0.3 MPa

Drawing

■Single inlet version (Connection at one end)



■Dual inlet version (Connections at both ends)



■Dimensions and weight

Orifice code	Blowing width (mm)	Number of orifices [n]	Pipe conn. size	Outer dimensions (mm)					Weight (g)
				L1	L2	L3	L4	N	
100- 40-010	100	40	R1/2	156	106	37	23	14	360
150- 58-010	150	58		203	152	37	23	14	500
200- 78-010	200	78		254	203	37	23	14	640
300-118-010	300	118		357	306	37	23	14	850
400-156-010	400	156		455	404	37	23	14	1,100
500-196-010	500	196	R3/4	557	507	44	27	15	2,000
600-234-010	600	234		655	605	44	27	15	2,400
700-274-010	700	274		758	707	44	27	15	2,800
800-312-010	800	312	R1	856	805	52	31	18	4,600
900-352-010	900	352		959	908	52	31	18	5,100
1000-390-010	1,000	390		1,056	1,006	52	31	18	5,600
1200-468-010	1,200	468		1,257	1,206	52	31	18	6,700
1400-546-010	1,400	546	R1½	1,457	1,407	70	40	20	13,800

■Dimensions and weight

Orifice code	Blowing width (mm)	Number of orifices [n]	Pipe conn. size*	Outer dimensions (mm)					Weight (g)
				L1	L2	L3	L4	N	
500-196-010	500	196	2-R1/2	597	507	37	23	14	1,750
600-234-010	600	234		695	605	37	23	14	2,050
700-274-010	700	274		798	707	37	23	14	2,400
800-312-010	800	312	2-R3/4	896	805	44	27	15	3,250
900-352-010	900	352		999	908	44	27	15	3,650
1000-390-010	1,000	390		1,096	1,006	44	27	15	4,000
1200-468-010	1,200	468		1,297	1,206	44	27	15	4,750
1400-546-010	1,400	546	2-R1	1,497	1,407	52	31	18	8,800

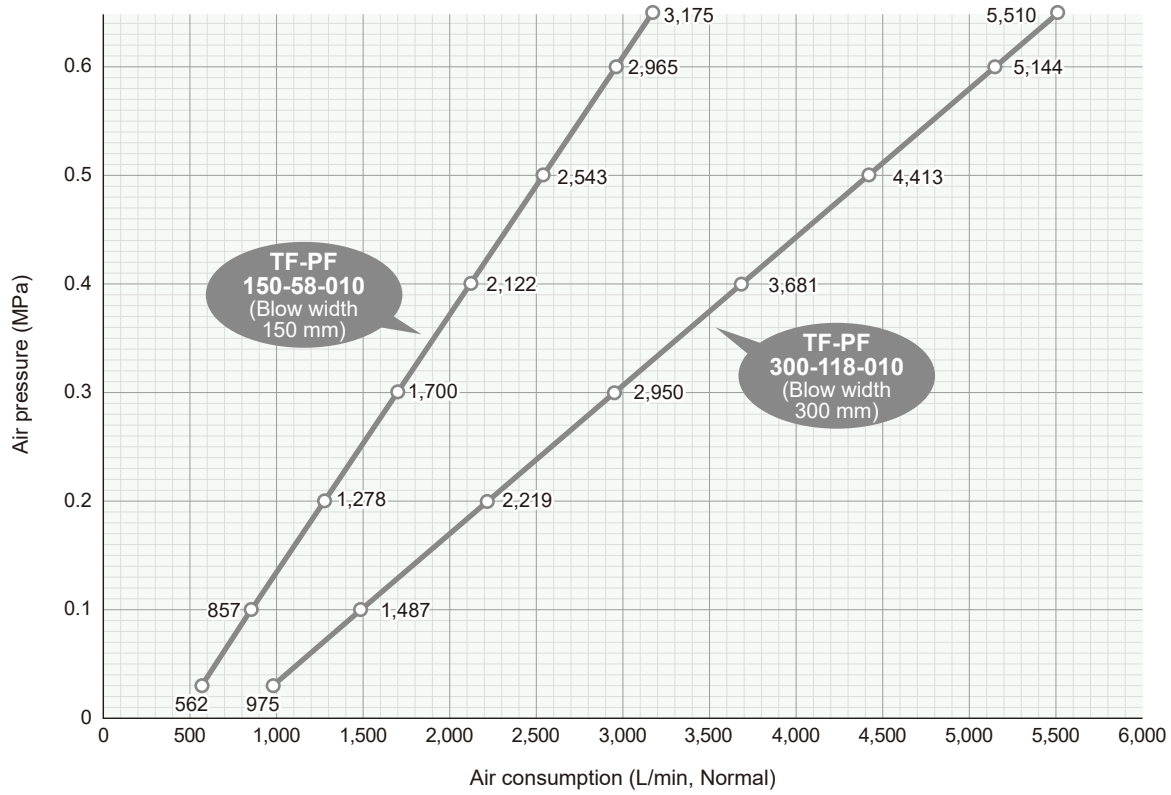
*The number "2-" in front of the connection size indicates the dual inlet version.

L1 = Total length
L2 = Length of nozzle tip

Air Consumption

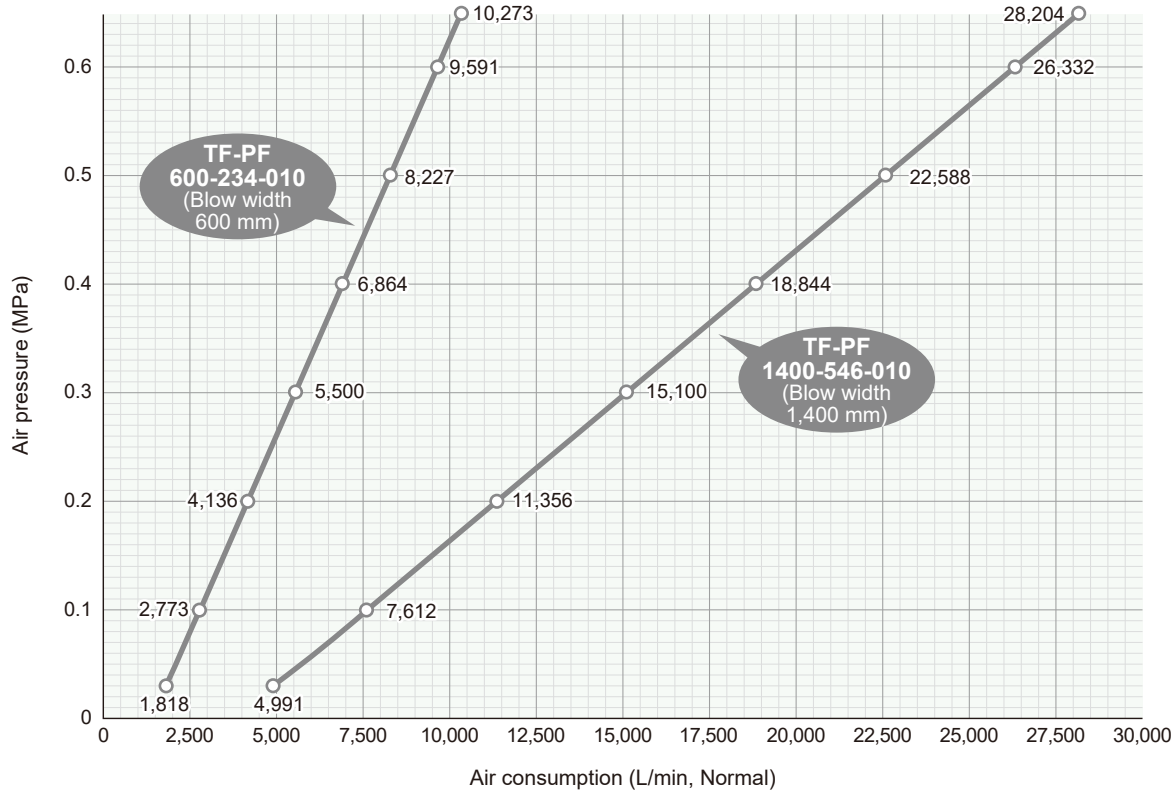
■Single Inlet Version

Contact us for the other models.

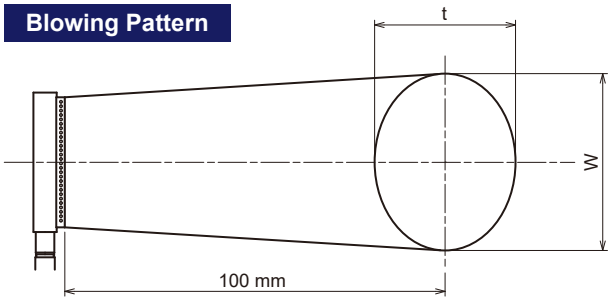


■Single/Dual Inlet Version

Contact us for the other models.



Blowing Pattern



Orifice code	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
150-58-010	150	155	160	50	50	50
300-118-010	305	310	315	50	50	50
600-234-010	600	605	610	50	50	50

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

Orifice code	Pressure (MPa)	Noise level (dBA)
150-58-010	0.1	76
	0.3	84
	0.5	90

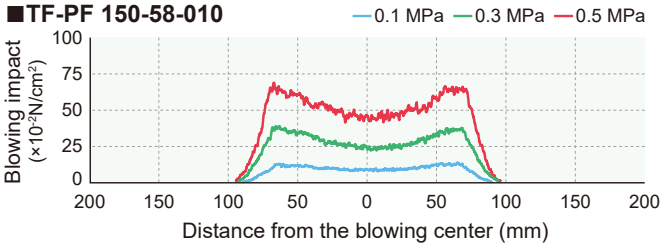
Orifice code	Pressure (MPa)	Noise level (dBA)
300-118-010	0.1	79
	0.3	85
	0.5	91

Orifice code	Pressure (MPa)	Noise level (dBA)
600-234-010	0.1	81
	0.3	90

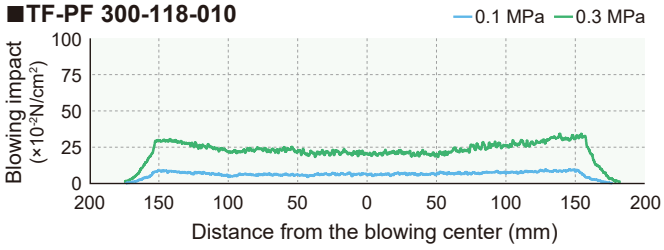
Blowing Impact Distribution

at 100 mm below the nozzle orifice

■TF-PF 150-58-010



■TF-PF 300-118-010



HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system.
See Page 26 for the pipe connection size and orifice code.

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

3/4M TF-PF 500-196-010 S304

Pipe Conn. Size* Orifice Code

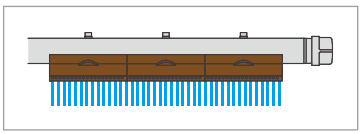
*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 3/4M = R3/4.

Long flat jet

TAIFUJet®
TF-PF w/ detachable nozzle tips

For compressors

Blow pattern



- Long flat air booster nozzle suitable for installation in confined spaces.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Available in 11 different sizes ranging from 200 to 1,200 mm in blowing width.
- Blowing manifold with replaceable nozzle tips for easy maintenance and cost savings.

Main material
PPS & S304

Weight
950–3,800 g

Max. operating pressure*
0.7 MPa (100 psi)

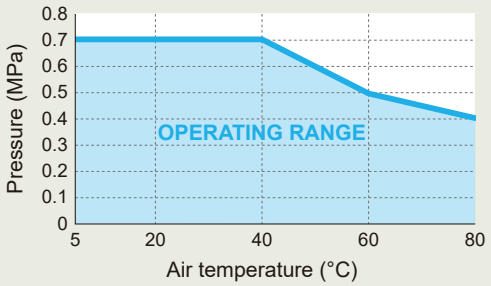
Max. temperature*
80°C (170°F)

Noise level
86 dBA or more at 0.3 MPa

Air consumption
2,172–13,034 L/min, Normal at 0.3 MPa

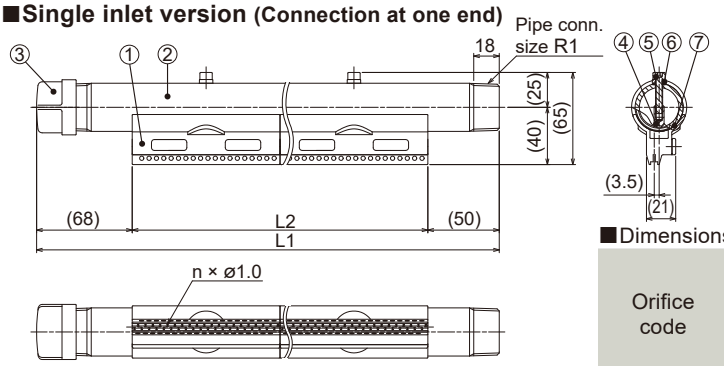
*Heat resistance varies depending on the pressure applied. Blue colored area indicates the operating range.

Operating range



Drawing

■Single inlet version (Connection at one end)



■Materials

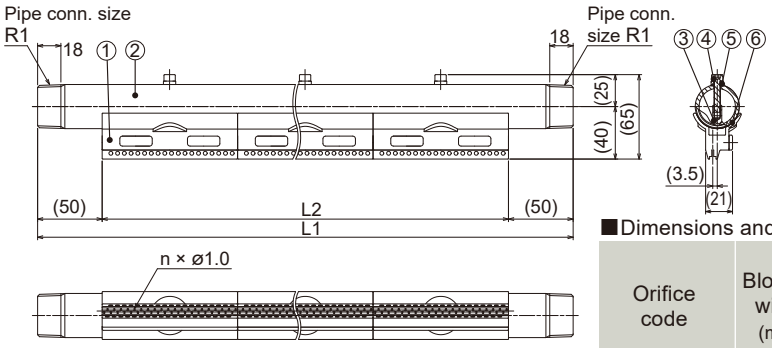
	Components	Materials
1	Nozzle tip	PPS
2	Pipe	S304
3	Cap	S304
4	Adaptor	S304
5	Bolt	S304
6	Seal washer	S304, FKM
7	O-ring	FKM

Pipe diameter: ø34 mm

■Dimensions and weight

Orifice code	Blowing width (mm)	Number of orifices [n]	Number of nozzle tips	Outer dimensions (mm) Total length L1	Outer dimensions (mm) Length of nozzle tips L2	Weight (g)
200- 80-010	200	80	2	327	209	950
300-120-010	300	120	3	431	313	1,300
400-160-010	400	160	4	536	418	1,600
500-200-010	500	200	5	640	522	1,900
600-240-010	600	240	6	745	627	2,200

■Dual inlet version (Connections at both ends)



■Materials

	Components	Materials
1	Nozzle tip	PPS
2	Pipe	S304
3	Adaptor	S304
4	Bolt	S304
5	Seal washer	S304, FKM
6	O-ring	FKM

Pipe diameter: ø34 mm

■Dimensions and weight

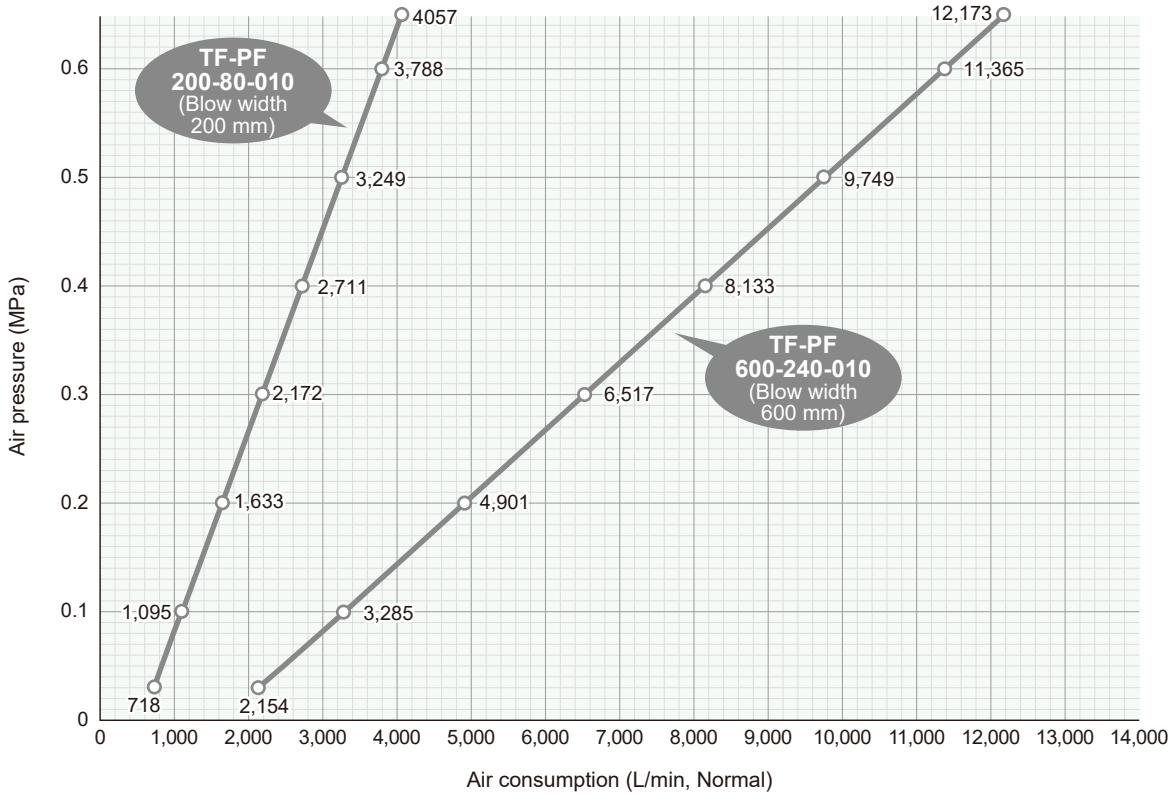
Orifice code	Blowing width (mm)	Number of orifices [n]	Number of nozzle tips	Outer dimensions (mm) Total length L1	Outer dimensions (mm) Length of nozzle tips L2	Weight (g)
700-280-010	700	280	7	831	731	2,400
800-320-010	800	320	8	936	836	2,700
900-360-010	900	360	9	1,040	940	3,000
1000-400-010	1,000	400	10	1,145	1,045	3,300
1100-440-010	1,100	440	11	1,249	1,149	3,500
1200-480-010	1,200	480	12	1,354	1,254	3,800

Note:
1) Nozzle orifices are designed to be placed off-center from the pipe.
2) For the dual inlet version, feed an air supply each to both ends of the pipe to achieve uniform impact distribution.

Air Consumption

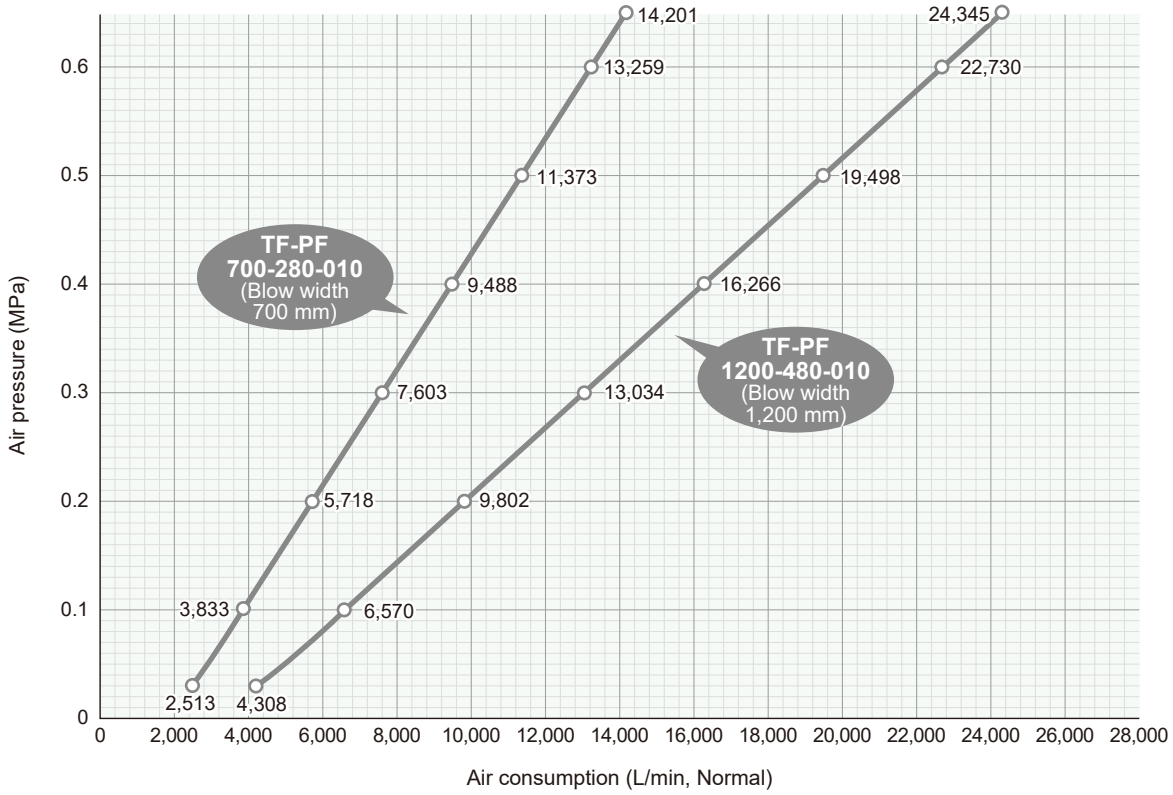
■Single Inlet Version

Contact us for the other models.

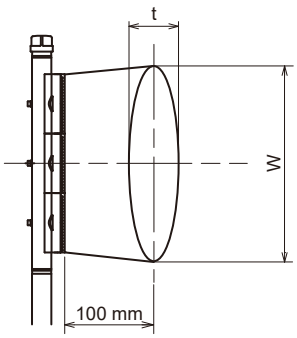


■Dual Inlet Version

Contact us for the other models.



Blowing Pattern



■TF-PF 300-120-010

Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	320	50
0.3	325	50
0.5	330	50

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

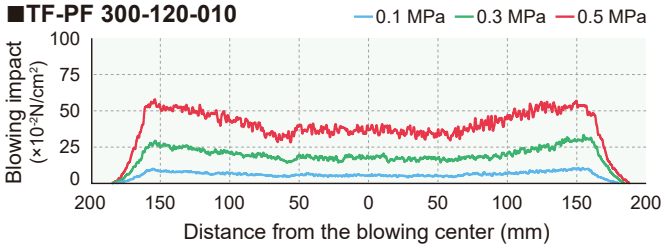
■TF-PF 300-120-010

Pressure (MPa)	Noise level (dBA)
0.1	79
0.3	86
0.5	92

Blowing Impact Distribution

at 100 mm below the nozzle orifice

■TF-PF 300-120-010



HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system.
See Page 29 for selection of the orifice code.

<Example> 1M TF-PF 200-80-010 PPS+S304

1M **TF-PF** **200-80-010** **PPS + S304**

Pipe Conn. Size*

■Single Inlet Version
- 1M

■Dual Inlet Version
- 2-1M

Orifice Code

■Single Inlet Version
- 200-80-010
- 300-120-010
- 400-160-010
- 500-200-010
- 600-240-010

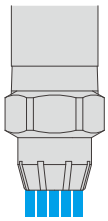
■Dual Inlet Version
- 700-280-010
- 800-320-010
- 900-360-010
- 1000-400-010
- 1100-440-010
- 1200-480-010

*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1M = R1.
The number "2-" in front of the connection size indicates the dual inlet version.

Plastic

Metal

For compressors



Blow pattern

- Round jet air booster nozzle with eight orifices generates a powerful, high impact air stream while saving energy.
- Low noise level.
- Compact design is ideal for use in tight spaces.

Material
Plastic: PP, Metal: S316L equivalent

Weight
Plastic: 2 g
Metal: 7 g (size R1/8)
12 g (size R1/4)

Max. operating pressure
Plastic: 0.7 MPa (100 psi)
Metal: 1.0 MPa (140 psi)

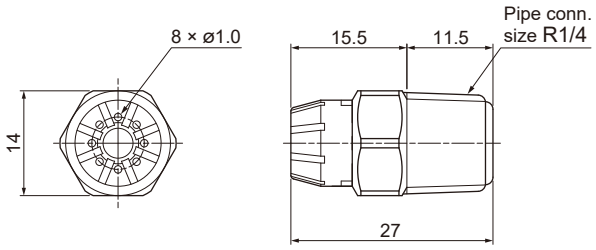
Max. temperature
Plastic: 60°C (140°F), Metal: 400°C (750°F)

Noise level (at 0.3 MPa)
Plastic: 78 dBA, Metal: 71–87 dBA

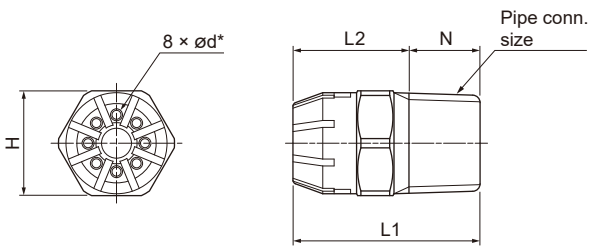
Air consumption (at 0.3 MPa)
Plastic: 245 L/min, Normal
Metal: 157–627 L/min, Normal

Drawing

Plastic ■1/4M TF-R 8-010 PP-IN



Metal ■1/8M TF-R [Orifice Code] S316L-IN
■1/4M TF-R [Orifice Code] S316L-IN



*ød = Orifice Diameter (OD): ø0.8, ø1.0, ø1.2, ø1.4, or ø1.6 mm

■Metal TF-R series

Orifice code	Pipe connection size		Orifice diameter ød (mm)
	R1/8	R1/4	
8-008	●	—	0.8
8-010	●	●	1.0
8-012	●	●	1.2
8-014	●	●	1.4
8-016	—	●	1.6

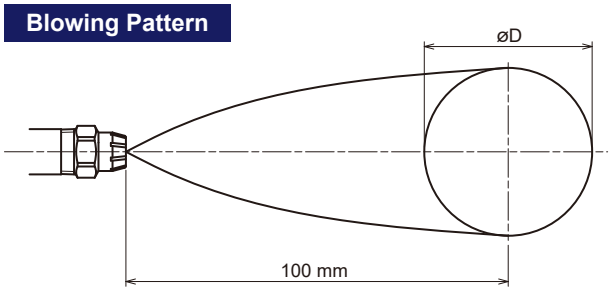
● shows availability of the item.

■Dimensions and weight

Pipe conn. size	Outer dimensions (mm)				Weight (g)
	L1	L2	H	N	
R1/8	20.0	13.0	12.0	7.0	7
R1/4	25.0	15.5	14.0	9.5	12

Orifice diameter ø1.0 (TF-R 8-010) is available in both plastic and metal. The other models are only available in metal.

Blowing Pattern



Orifice code	Blowing width øD (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa
8-008	30	30	30
8-010	35	35	35
8-016	40	40	40

TF-R 8-010 (orifice diameter ø1.0) is available in both plastic and metal.

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

TF-R 8-010 (orifice diameter ø1.0) is available in both plastic and metal.

Orifice code	Pressure (MPa)	Noise level (dBA)
8-008	0.1	59
	0.3	71
	0.5	77

Orifice code	Pressure (MPa)	Noise level (dBA)
8-010	0.1	65
	0.3	78
	0.5	83

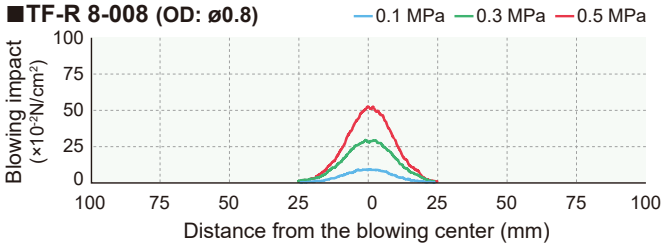
Orifice code	Pressure (MPa)	Noise level (dBA)
8-016	0.1	75
	0.3	87
	0.5	93

Blowing Impact Distribution

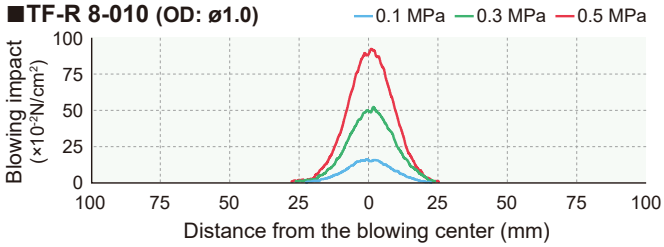
at 100 mm below the nozzle orifice

TF-R 8-010 (orifice diameter ø1.0) is available in both plastic and metal.

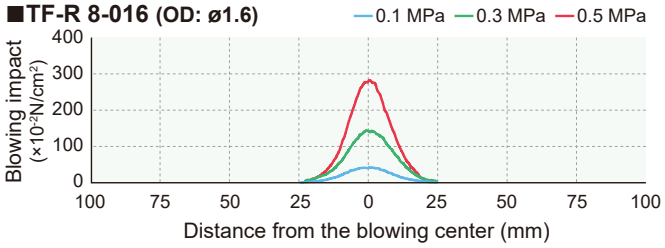
■TF-R 8-008 (OD: ø0.8)



■TF-R 8-010 (OD: ø1.0)



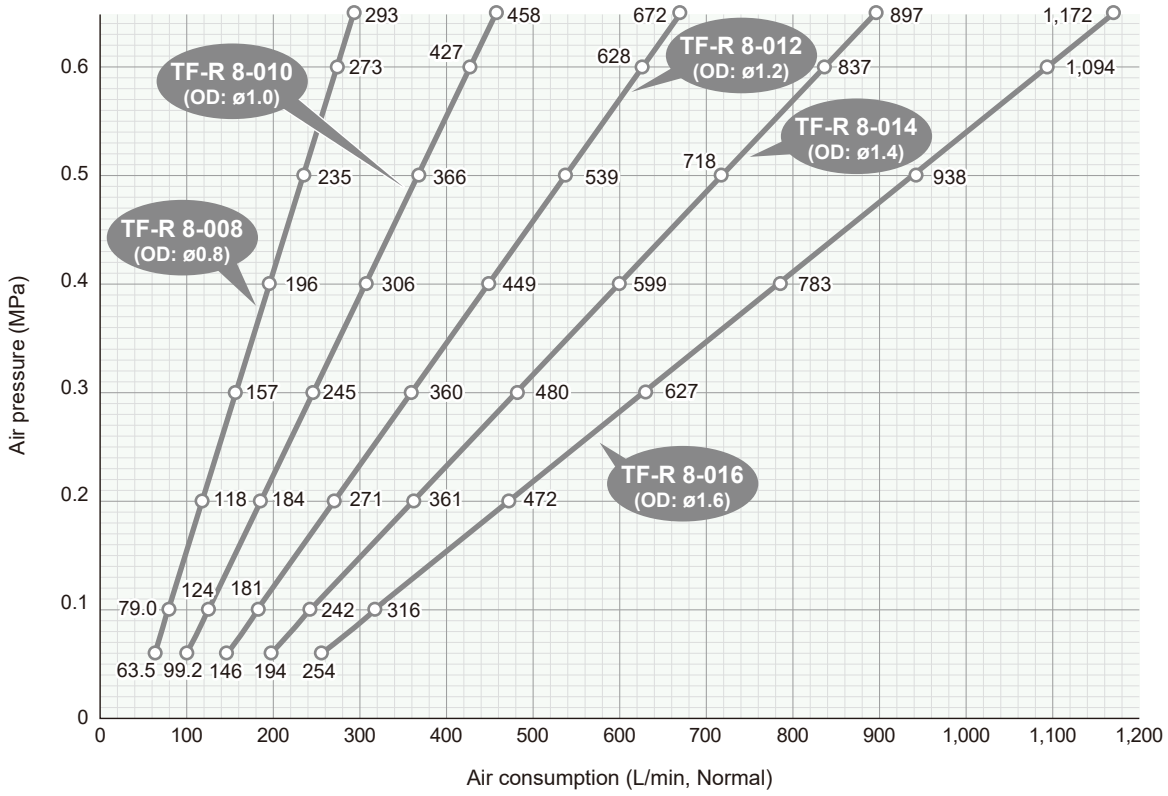
■TF-R 8-016 (OD: ø1.6)



(OD = Orifice Diameter)

Air Consumption

TF-R 8-010 (orifice diameter Ø1.0) is available in both plastic and metal.



HOW TO ORDER	Please inquire or order for a specific nozzle using this coding system. See Page 32 for the pipe connection size and orifice code. Plastic version is only available in R1/4 with orifice diameter ø1.0.

Plastic

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

Metal

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

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

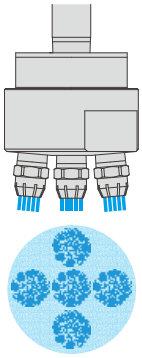
Pipe Conn. Size*	Orifice Code
●1/8M	●8-008 ●8-010
●1/4M	●8-012 ●8-014
	●8-016

*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/4M = R1/4.

Multi-nozzle assemblies

TAIFUJet® TF-M5R

For compressors



Blow pattern

- Compact nozzle-header with 5 nozzles. The nozzles are available with different orifice diameters. Upon request nozzle-headers with 4 or 7 nozzles are available as well.
- The ergonomic design ensures a highly effective air flow.
- Recommended for applications requiring high volume and powerful air flow.
- Nozzle-header and adapter only are also available in lightweight A6061 aluminum upon request.

Material
S316L equivalent & S303

Max. temperature
216°C (420°F)

Weight
800 g

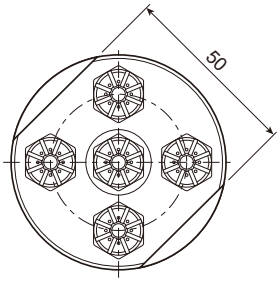
Noise level
83–91 dBA at 0.3 MPa

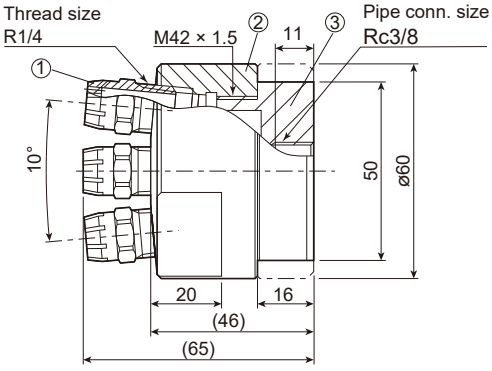
Max. operating pressure
1.0 MPa (140 psi)

Air consumption
1,225–3,136 L/min, Normal at 0.3 MPa

Drawing

■3/8F TF-M5R 8-*** S303
[*** = 010, 012, 014, or 016]





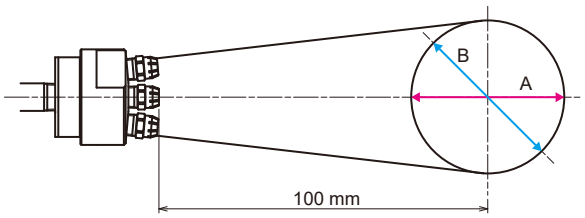
1. Nozzle* 2. Nozzle-header 3. Adaptor

*1/4M TF-R S316L-IN air nozzles (see Page 32)

Unit: mm

Sealing materials are used for assembly of some parts.

Blowing Pattern



Orifice code	A (mm)			B (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
8-010	95	100	100	70	70	70
8-016	100	105	105	45	45	45

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

Orifice code	Pressure (MPa)	Noise level (dBA)
8-010	0.1	72
	0.3	83
	0.5	86

Orifice code	Pressure (MPa)	Noise level (dBA)
8-016	0.1	80
	0.3	91
	0.5	97

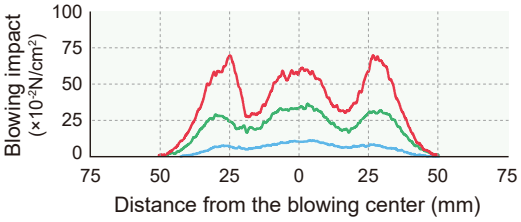
Blowing Impact Distribution

at 100 mm below the nozzle orifice

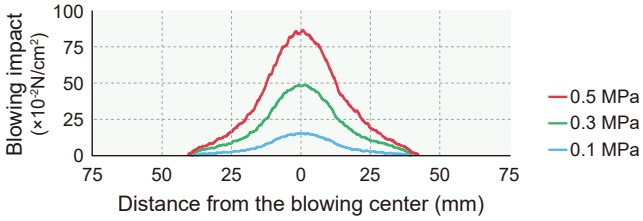
Blowing impact distributions below are measured in the directions of A and B indicated in the Blowing Pattern diagram on page 35.

Model: TF-M5R 8-010

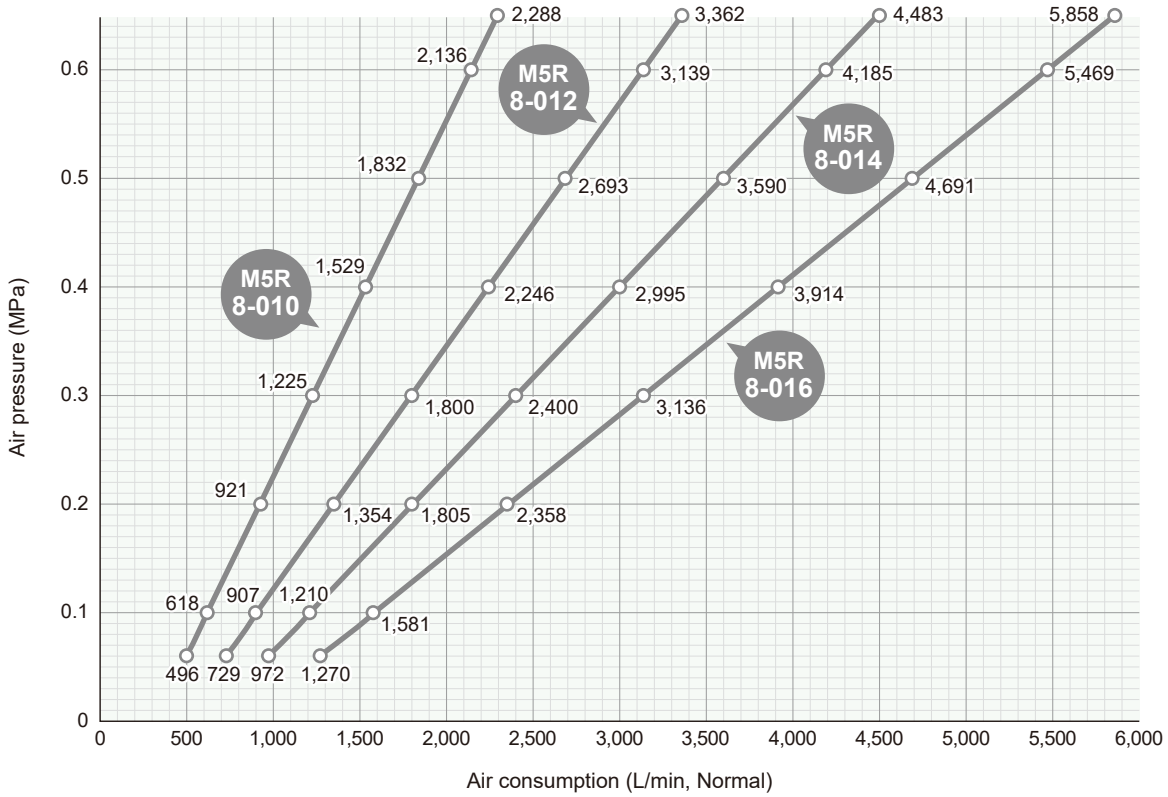
■Distribution in direction A



■Distribution in direction B



Air Consumption



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 Code

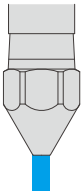
- 8-010
- 8-012
- 8-014
- 8-016

For details of the orifice code, see Page 32.

Solid stream air nozzles

CCP-A

For compressors



Blow pattern

- Delivers a single solid precision air jet stream concentrated on one point.
- Four models available with different blowing powers, ranging from ø1.0 to ø2.5 mm in orifice diameters.
- Cost effective nozzle for use in large quantities.

Material
S303

Max. temperature
400°C (750°F)

Weight
Pipe conn. size R1/8: 7.5 g
Pipe conn. size R1/4: 19 g

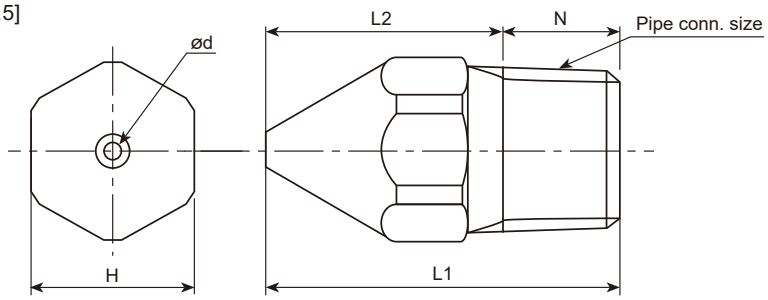
Noise level
66–84 dBA at 0.3 MPa

Max. operating pressure
1.0 MPa (140 psi)

Air consumption
35–215 L/min, Normal at 0.3 MPa

Drawing

■1/8M CCP ø***A S303
■1/4M CCP ø***A S303
[*** = 1.0, 1.5, 2.0, or 2.5]



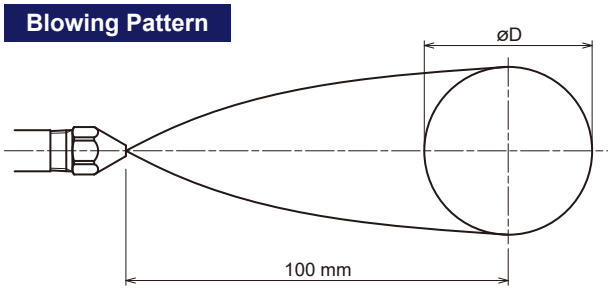
■Dimensions and weight

Pipe conn. size	Outer dimensions (mm)				Weight (g)
	L1	L2	H	N	
R1/8	21.0	14.0	10.0	7.0	7.5
R1/4	30.0	19.5	14.0	10.5	19.0

■Orifice diameter code

Pipe conn. size	Orifice diameter code	Orifice diameter ød (mm)
R1/8 or R1/4	ø1.0A	1.0
	ø1.5A	1.5
	ø2.0A	2.0
	ø2.5A	2.5

Blowing Pattern



Orifice diameter code	Blowing width øD (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa
Ø1.0A	40	40	40
Ø2.5A	30	30	30

Noise Level

at a distance of 1,000 mm

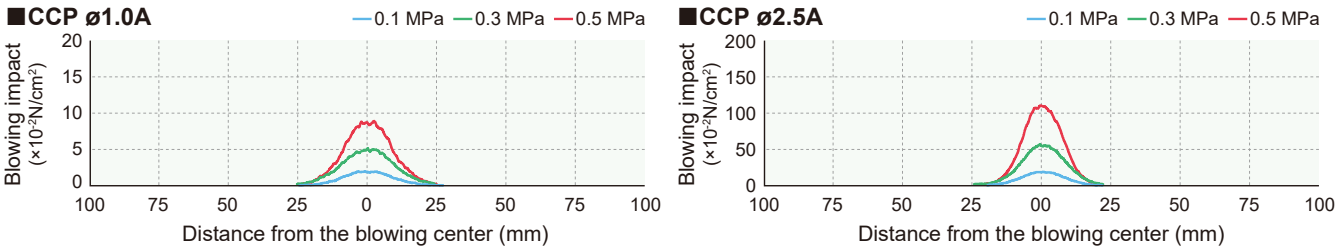
Background noise: 46 dBA

Orifice diameter code	Pressure (MPa)	Noise level (dBA)
ø1.0A	0.1	55
	0.3	66
	0.5	71

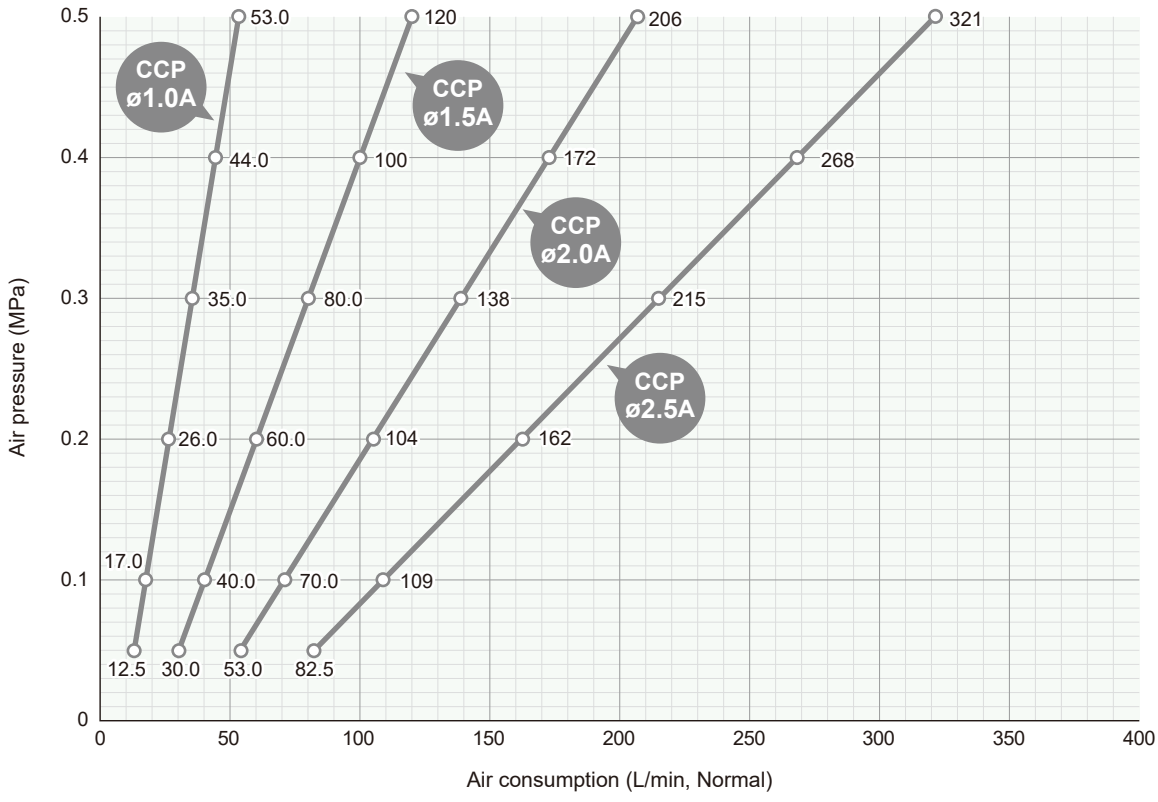
Orifice diameter code	Pressure (MPa)	Noise level (dBA)
ø2.5A	0.1	72
	0.3	84
	0.5	89

Blowing Impact Distribution

at 100 mm below the nozzle orifice



Air Consumption



HOW TO ORDER

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

<Example> 1/8M CCP ø1.0A S303

1/8M CCP ø1.0A S303

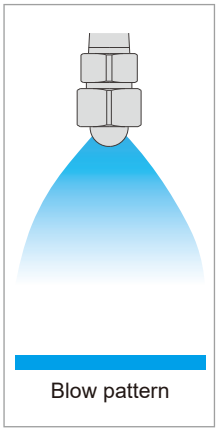
Pipe Conn. Size*	Orifice Diameter Code
●1/8M	●ø1.0A ●ø1.5A
●1/4M	●ø2.0A ●ø2.5A

*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/4M = R1/4.

Flat blow slit jet

VZ

For compressors



- Wide-angle flat blow provides large coverage.
- Air flow volume can be adjusted by changing the nozzle tip.
- Three-piece nozzle can be disassembled for easy cleaning of orifice.
- Can be used for blowing either compressed air or steam.

Material
S303

Weight
Pipe conn. size R1/4: 41 g
Pipe conn. size R3/8: 69 g

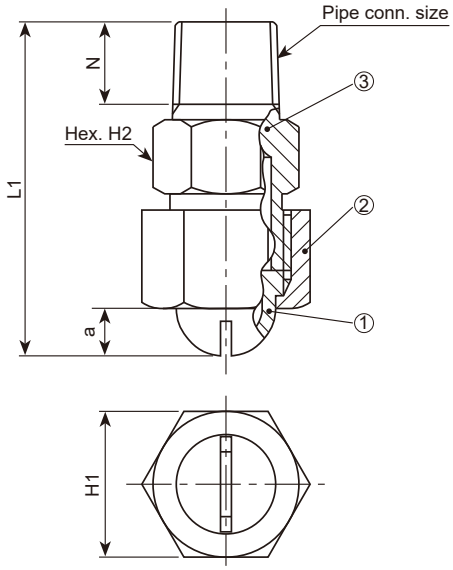
Max. operating pressure
0.7 MPa (100 psi)

Noise level
70–94 dBA at 0.3 MPa

Air consumption
154–1,122 L/min, Normal at 0.3 MPa

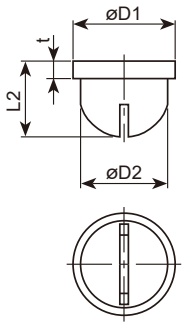
Drawing

Nozzle assemblies



1. Nozzle tip
2. Cap
3. Adaptor

Nozzle tip



■Nozzle assemblies

Pipe conn. size	Outer dimensions (mm)					Weight (g)
	L1	H1	H2	N	a	
R1/4	43.0	19.0	17.0	10.5	6.5	41
R3/8	48.5	23.0	21.0	11.0	9.5	69

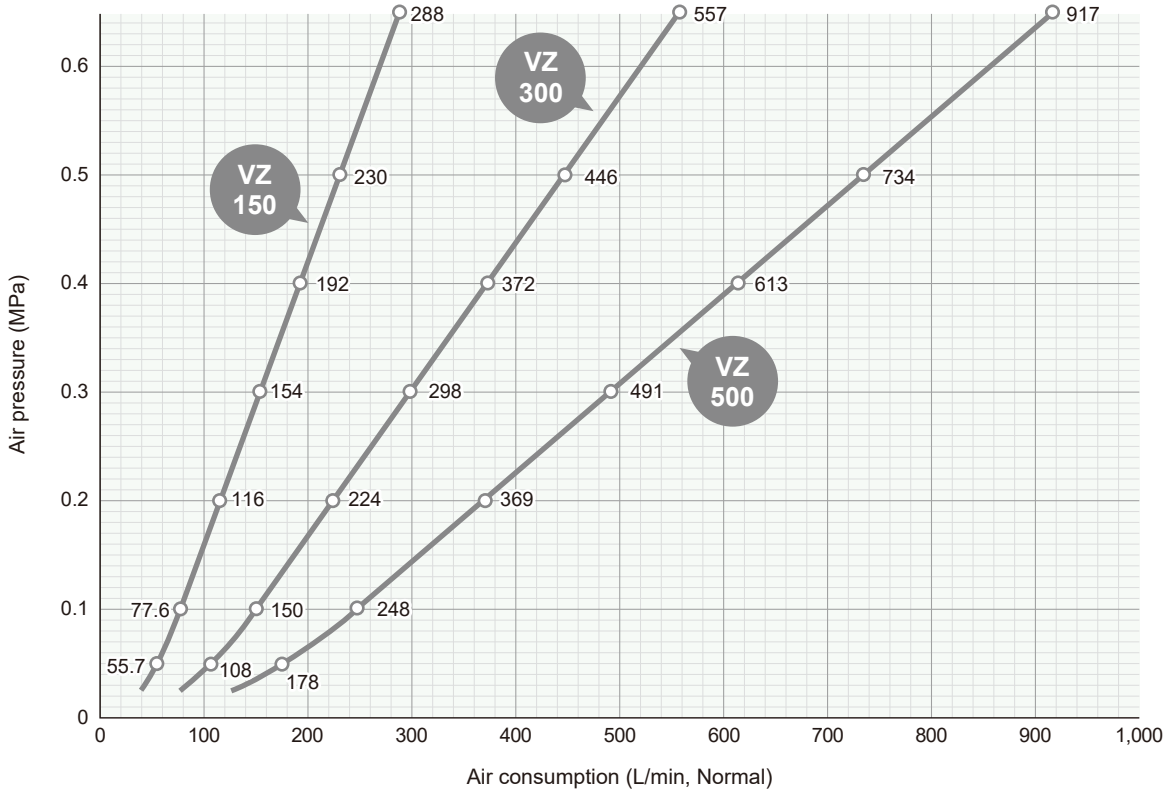
■Nozzle tip

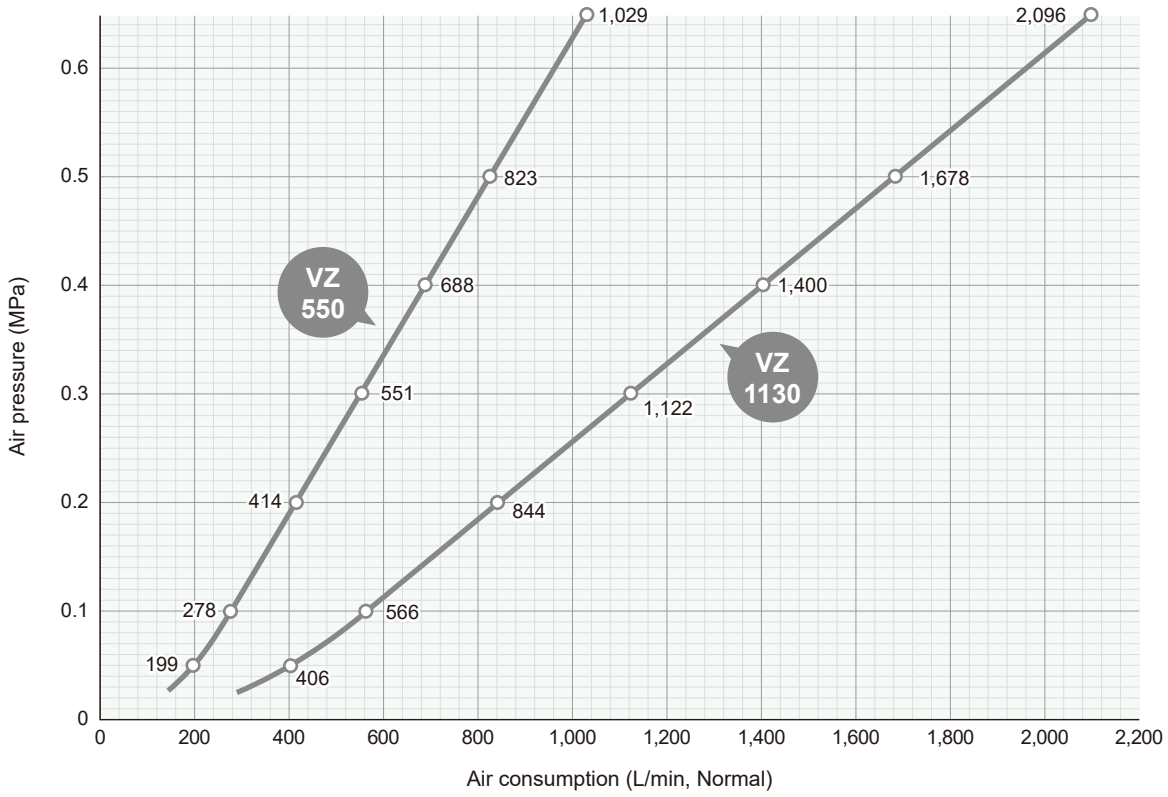
Pipe conn. size*1	Outer dimensions (mm)				Weight (g)
	L2	øD1	øD2	t	
R1/4	11.0	14.5	12.5	2.5	5.1
R3/8	14.0	18.0	16.0	2.5	8.0

*1Pipe connection size of the complete nozzle assemblies

Air Consumption

See Performance Data on page 41 for the other VZ series models and their air consumption.





Noise Level

at a distance of 1,000 mm

Background noise: 34 dBA

Capacity code	Pressure (MPa)	Noise level (dBA)
150	0.1	59
	0.3	70
	0.5	74

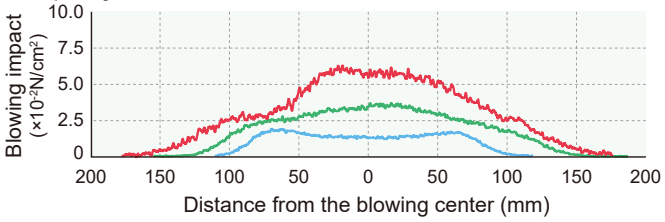
Capacity code	Pressure (MPa)	Noise level (dBA)
550	0.1	74
	0.3	84
	0.5	90

Capacity code	Pressure (MPa)	Noise level (dBA)
1130	0.1	87
	0.3	94
	0.5	100

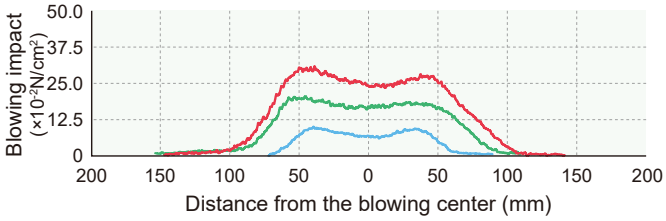
Blowing Impact Distribution

at 100 mm below the nozzle orifice

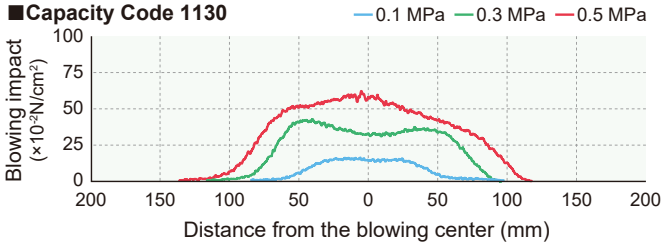
■Capacity Code 150



■Capacity Code 550



■Capacity Code 1130



Performance Data

Capacity code	Pipe conn. size		Air consumption (L/min, Normal)						Steam consumption (kg/hr) (When using steam instead of air)						Free passage diameter (mm)
	R1/4	R3/8	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	
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	0.4
250	●	–	90.5	126	188	250	374	498	4.26	5.78	8.57	11.3	16.8	22.2	0.5
300	●	–	108	150	224	298	446	594	5.08	6.90	10.2	13.5	20.0	26.5	0.6
350	●	–	125	175	261	346	518	690	5.90	8.00	11.9	15.7	23.2	30.7	0.7
400	●	–	143	199	297	394	590	786	6.72	9.12	13.5	17.9	26.5	35.0	0.8
450	●	–	160	223	333	443	662	882	7.54	10.2	15.2	20.0	29.7	39.3	0.9
500	●	–	178	248	369	491	734	977	8.36	11.3	16.8	22.2	32.9	43.5	1.1
550	–	●	199	278	414	551	823	1,096	9.38	12.7	18.8	24.9	36.9	48.8	0.9
600	–	●	219	305	455	605	905	1,205	10.3	14.0	20.7	27.4	40.6	53.7	1.0
650	–	●	235	328	489	650	972	1,295	11.1	15.0	22.3	29.4	43.6	57.7	1.1
700	–	●	253	353	526	700	1,047	1,394	11.9	16.2	24.0	31.7	46.9	62.1	1.1
750	–	●	272	380	566	753	1,126	1,500	12.8	17.4	25.8	34.1	50.5	66.8	1.2
900	–	●	326	454	677	901	1,347	1,794	15.3	20.8	30.8	40.7	60.4	79.9	1.5
1130	–	●	406	566	844	1,122	1,678	2,235	19.1	25.9	38.4	50.8	75.2	99.5	1.9

● shows availability of the item.

HOW TO ORDER

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

Nozzle Assemblies

<Example> 1/4M VZ 150 S303

1/4M **VZ** **150** **S303**

Pipe Conn. Size*
- ●1/4M
- ●3/8M

Capacity Code
- ●150
- ≀
- ●1130

*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/4M = R1/4.

Nozzle Tip (only)

<Example> 1/4 VZ 150 S303

1/4 **VZ** **150** **S303**

Pipe Conn. Size*1
- ●1/4
- ●3/8

Capacity Code
- ●150
- ≀
- ●1130

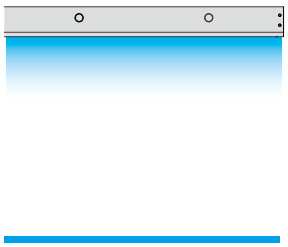
*1Pipe connection size of the complete nozzle assemblies

Long slit jet

SLNHA-H

Lightweight type (Contact us for details)

For compressors



Blow pattern

- Produces even air flow with uniform impact distribution.
- Available in stainless steel 304 or PVC.
- Customizable total length from 250 mm to 3,950 mm (2,950 mm in PVC).
- Compact and space-saving design with a thickness of only 20 mm to 34 mm.

Material
Plastic: PVC, Metal: S304

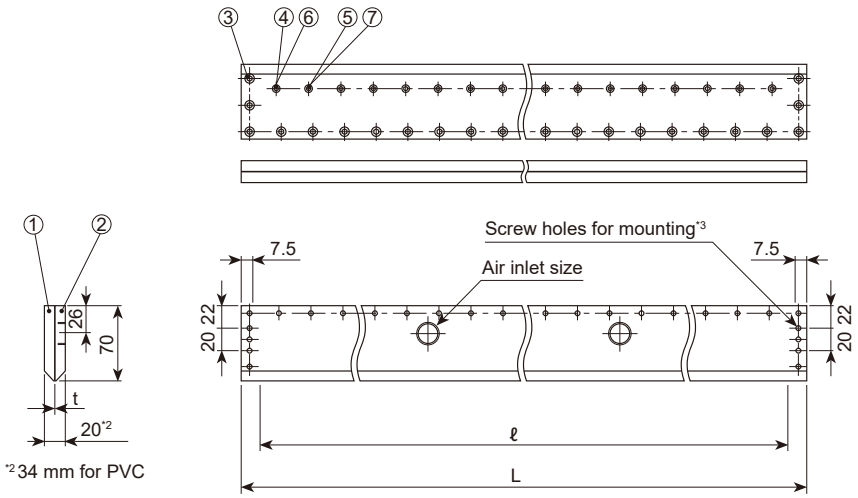
Air consumption
656–1,733 L/min, Normal at 0.05 MPa

Weight
Plastic: 1.5–4.0 kg, Metal: 5.0–12.0 kg

Max. operating pressure
Plastic: 0.1 MPa (14 psi), Metal: 0.3 MPa (43 psi)

Drawing

This drawing is of stainless steel SLNHA-H series.



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

*3 Screw size: M5 depth 8 mm for S304, M5 depth 10 mm for PVC

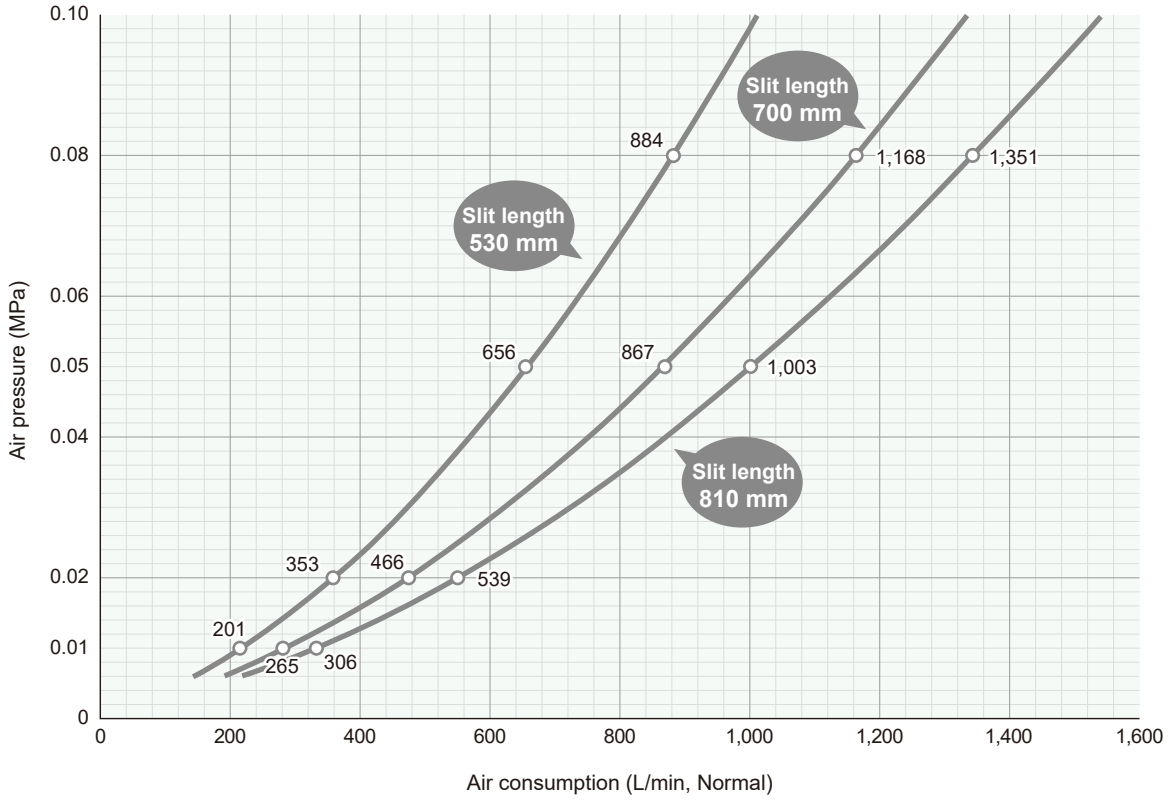
■Dimensions and weight

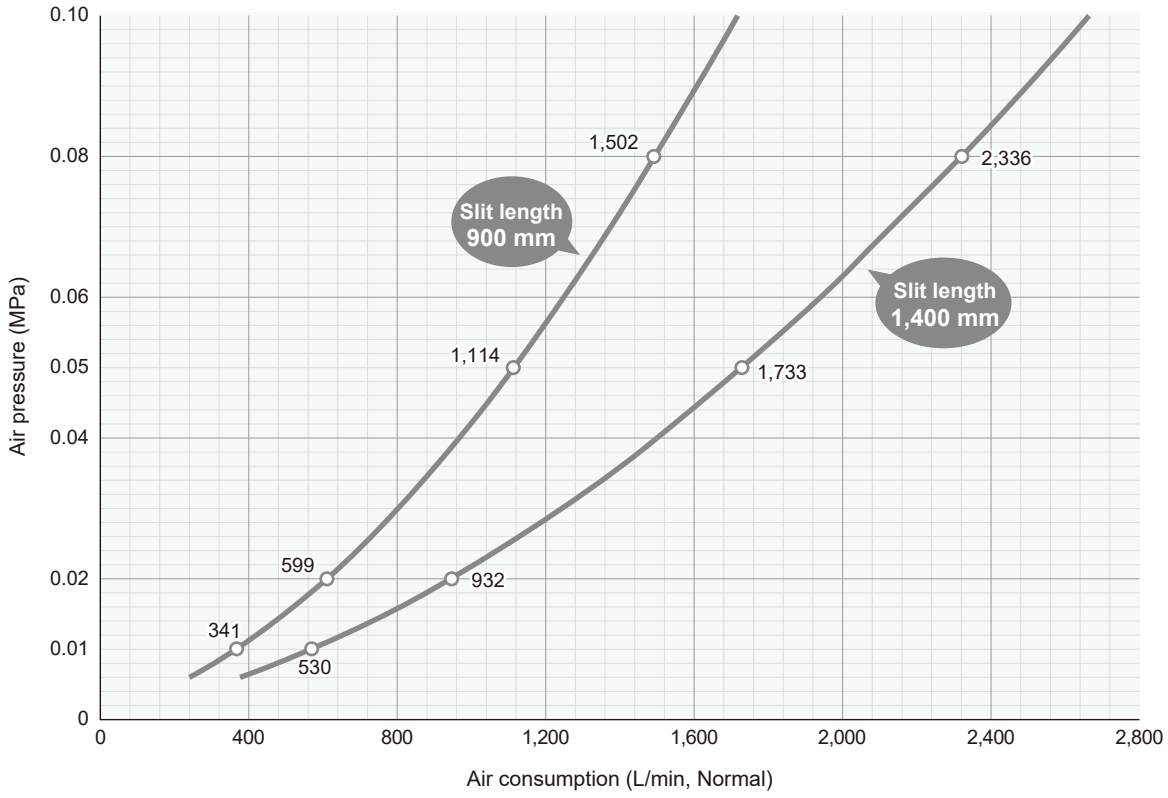
Slit length ℓ (mm)	Slit opening t (mm)	Number of inlets	Air inlet size	Total length L*1 (mm)	Weight (kg)	
					S304	PVC
530	0.1	2	Rc3/8	560	5.0	1.5
700			Rc1/2	730	6.5	1.9
810				840	7.5	2.2
900				930	8.0	2.5
1,400		3		1,430	12.0	4.0

*1 S304: Customizable total length from 250 mm to 3,950 mm.
PVC: Customizable total length from 250 mm to 2,950 mm.

Appearance and dimensions of the products may differ depending on materials and product codes.

Air Consumption



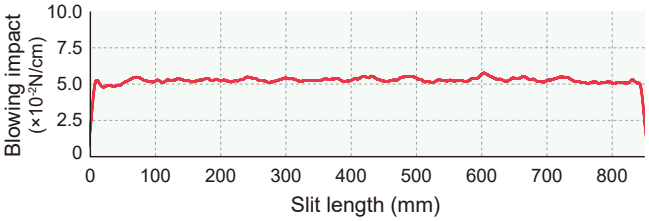


Blowing Impact Distribution

Measured 5 mm below the nozzle orifice and at an air pressure of 0.05 MPa

■SLNHA-H 850×0.1

(Slit length: 850 mm, slit opening: 0.1 mm)



Deviation from median: +/-6.5%

HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system. See Page 42.

<Example> 2-3/8F SLNHA-H 530×0.1 PVC

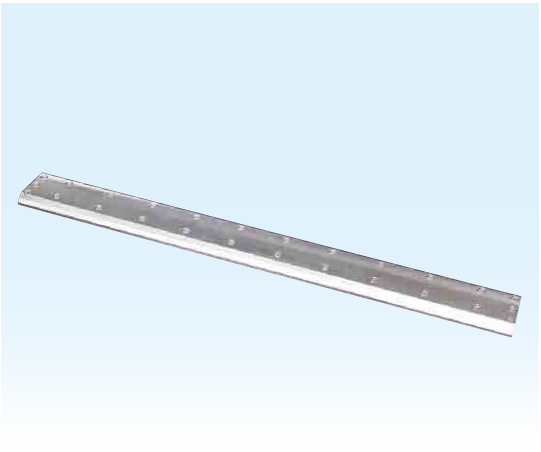
2 - **3/8F** **SLNHA-H** **530** **× 0.1** **PVC**

Number of Inlets	Pipe Conn. Size*	Slit Length	Material
●2 ●3	●3/8F ●1/2F	●530 ●700 ●810 ●900 ●1400	●S304 ●PVC

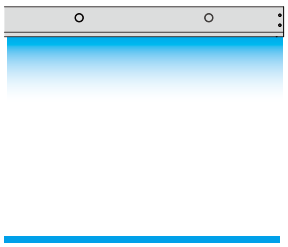
*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 3/8F = Rc3/8.

Long slit jet

SLNHA-NA



For compressors



Blow pattern

- Produces even air flow with uniform impact distribution.
- Slit nozzle without adjustment bolts. No adjustment of slit opening needed after maintenance.
- Mechanism retains its even flow after reassembly following in-house maintenance.
- Uniform air flow is ideal for blow-off drying.

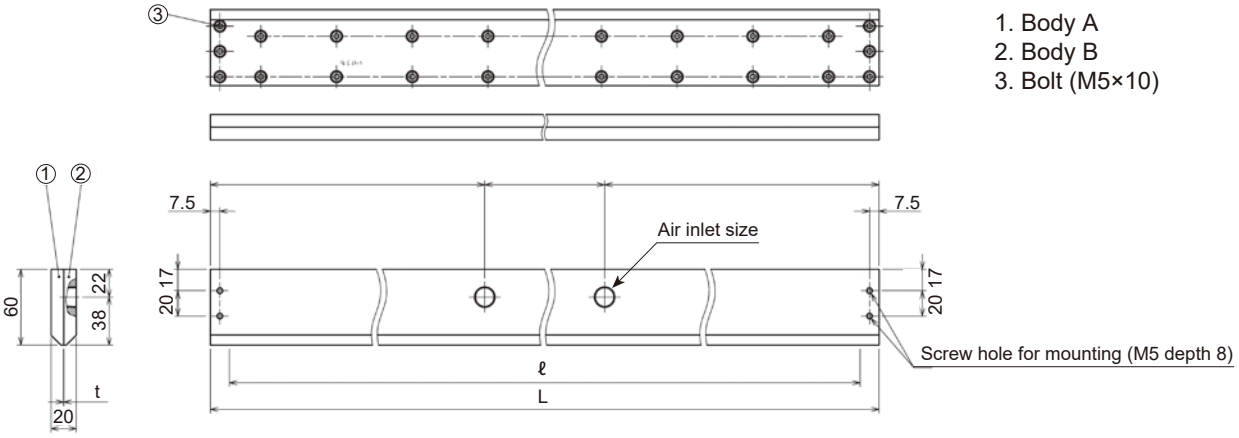
Material
S304

Weight
4.6–12 kg

Max. operating pressure
0.1 MPa (14.5 psi)

Air consumption (at 0.05 MPa)
545–1,441 L/min, Normal for slit opening of 0.1 mm
1,091–2,881 L/min, Normal for slit opening of 0.2 mm

Drawing



1. Body A
2. Body B
3. Bolt (M5×10)

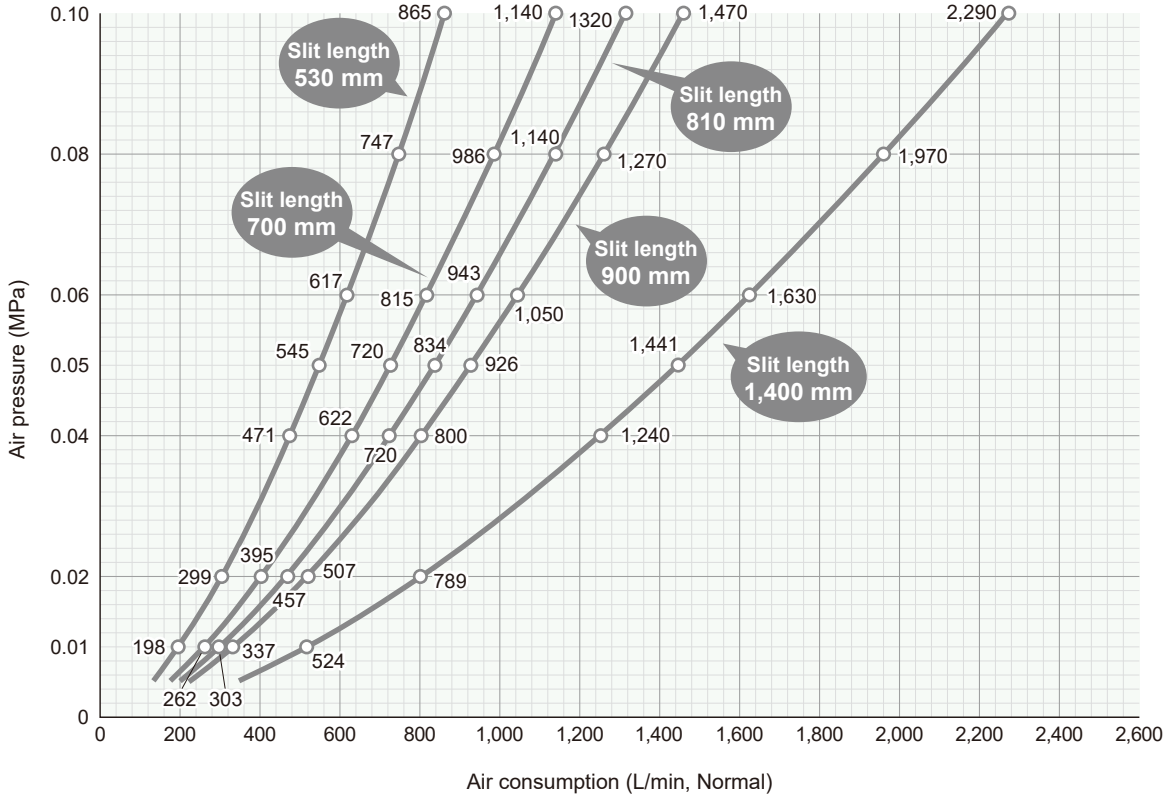
■Dimensions and weight

Slit length ℓ (mm)	Slit opening t (mm)	Number of inlets*2	Air inlet size	Total length L*1 (mm)	Weight (kg)	Material
530	0.1 to 0.2	2 or 3	Rc3/8	560	4.6	S304
700		3 to 5		730	6.0	
810				840	6.9	
900				930	7.7	
1,400		5 to 7		1,430	12.0	

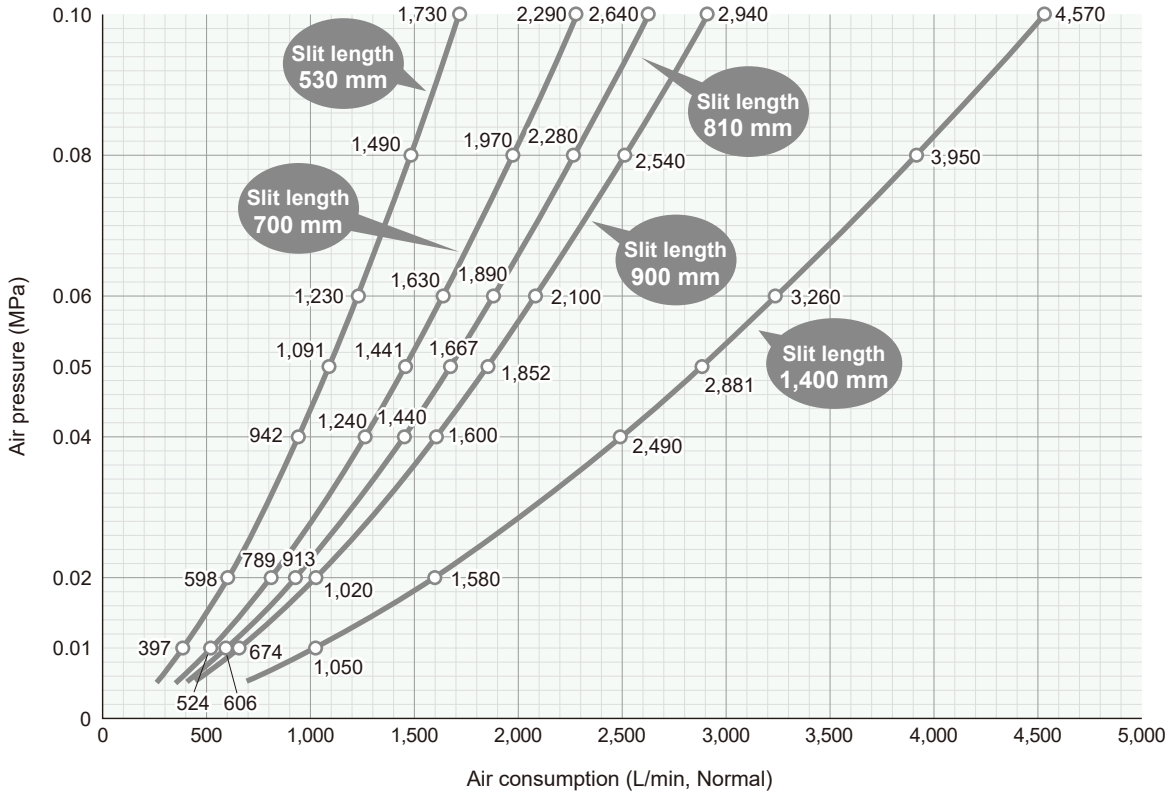
*1 Customizable total length from 250 mm to 2,300 mm with slit opening of 0.1–0.2 mm.
*2 The number of inlets differs by slit opening width.

Air Consumption

■Slit Opening: 0.1 mm



■Slit Opening: 0.2 mm

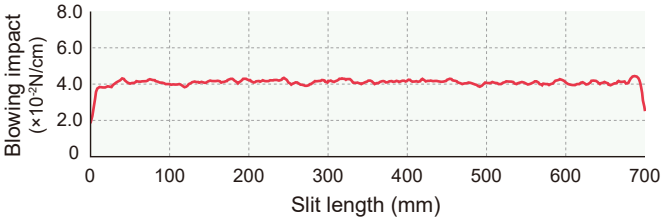


Blowing Impact Distribution

Measured 5 mm below the nozzle orifice and at an air pressure of 0.05 MPa

■SLNHA-NA 700×0.1

(Slit length: 700 mm, slit opening: 0.1 mm)



Deviation from median: +/-5.9%

HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system. See Page 45.

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

2 - 3/8F SLNHA-NA 530 × 0.1 S304

Number of Inlets*
- ●2 ●3
- ●4 ●5
- ●6 ●7

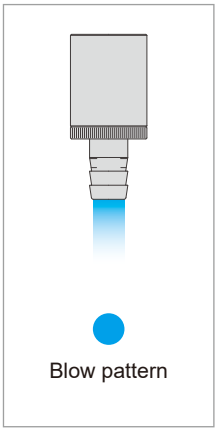
Slit Length
- ●530 ●700
- ●810 ●900
- ●1400

Slit Opening
- ●0.1
- ●0.2

*The number of inlets is determined by the slit length and width of the slit opening.

Air booster nozzles EJA

For compressors



- By adding ambient air to supplied air, the air output is amplified by ×10*, drastically reducing supplied air usage.
- Built-in flow valve for precise adjustment of air volume for intake and output.
- Suitable for powder transfer.

*Blowing air volume will be 2 to 20 times larger than the air consumption, variable by air pressure and setting of flow adjustment dial. See Page 51 for details.

Material
S303

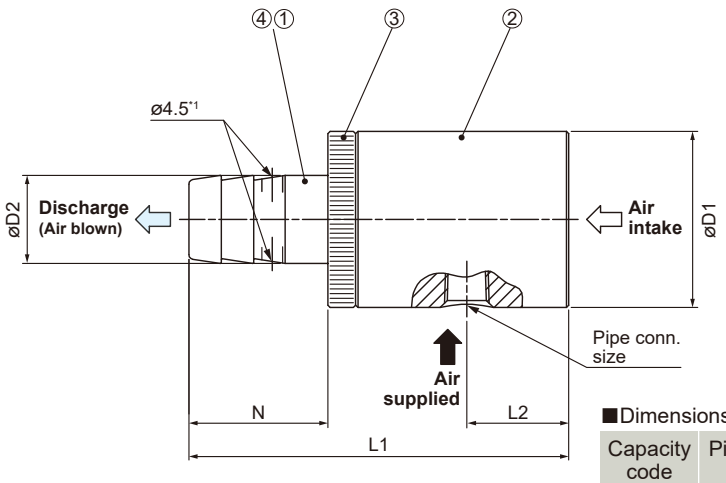
Weight
405–2,370 g

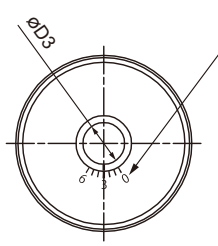
Max. operating pressure
0.6 MPa (87 psi)

Noise level
83 dBA or less at 0.3 MPa

Air consumption
150–750 L/min, Normal at 0.3 MPa (with air flow dial set to 3)

Drawing





■Materials

	Components	Materials
1	Nozzle body	S303
2	Adaptor	S303
3	Lock nut	S303
4	O-ring	NBR

■Dimensions and weight

Capacity code	Pipe conn. size	Outer dimensions (mm)						Weight (g)
		L1	L2	øD1	øD2	øD3	N	
EJA150	Rc1/8	82	22	38	19	9	30	405
EJA300	Rc1/4	91	24	50.8	32	20	35	700
EJA450	Rc3/8	101	27	76.3	50.8	40	35	1,520
EJA750	Rc3/8	104	29	101.6	76.3	62	35	2,370

*1 Holes for adjustment rod of ø4.0.
EJA750 has holes of ø6.5 for a rod of ø6.0.
Insert rod through both holes to turn the air flow dial.

Noise Level

at a distance of 1,000 mm

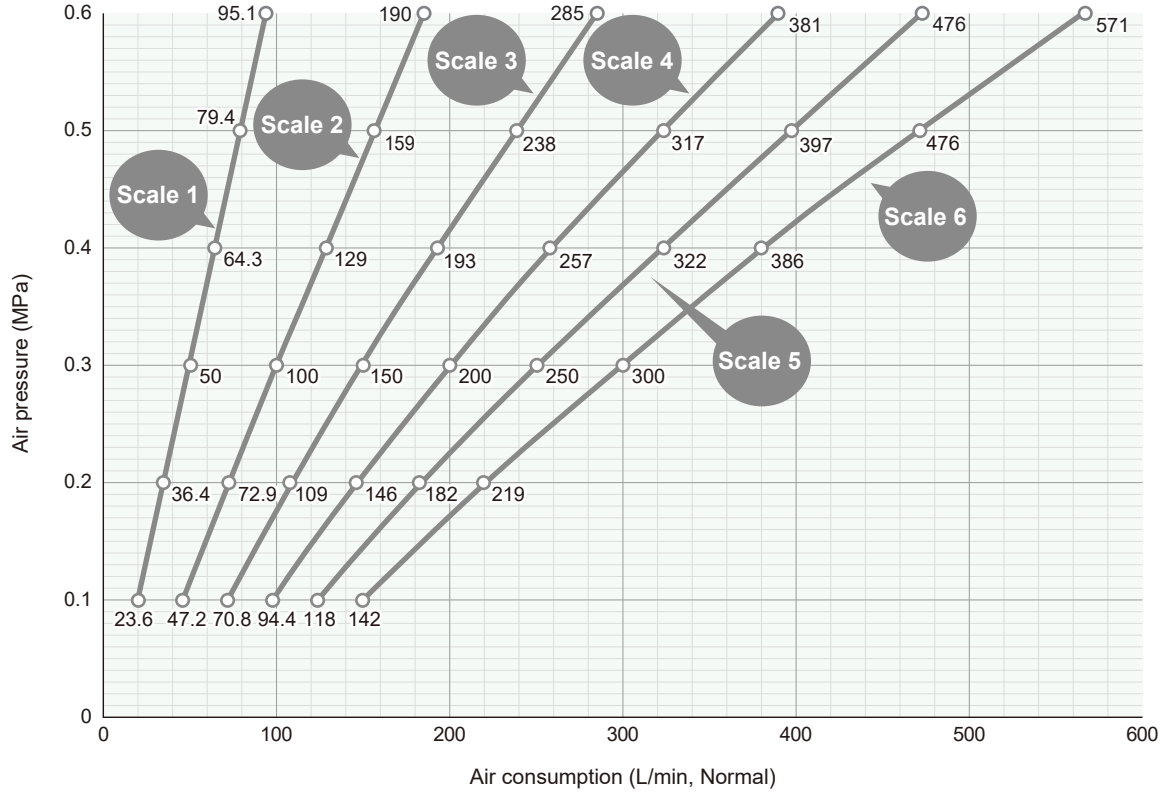
Background noise: 35 dBA

Capacity code	Pressure (MPa)	Noise level (dBA)
EJA300	0.1	70
	0.3	81
	0.5	86

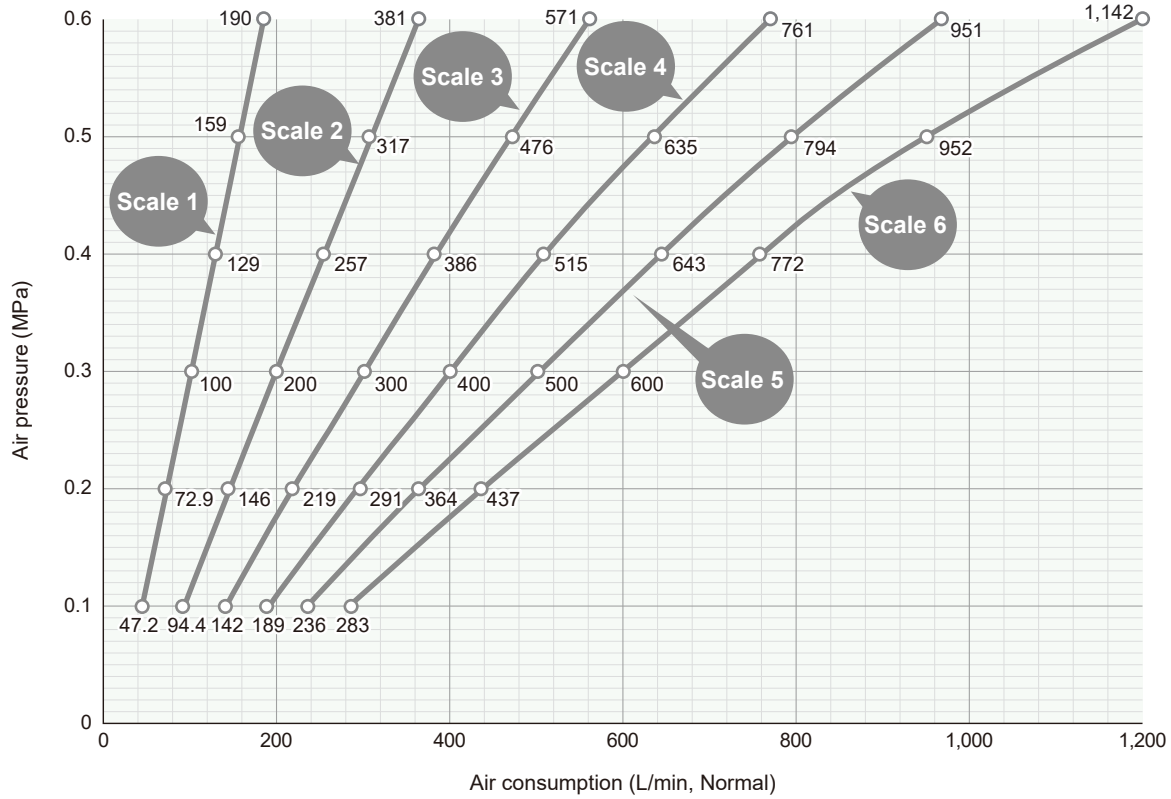
Capacity code	Pressure (MPa)	Noise level (dBA)
EJA750	0.1	70
	0.3	83
	0.5	89

Air Consumption

■EJA150



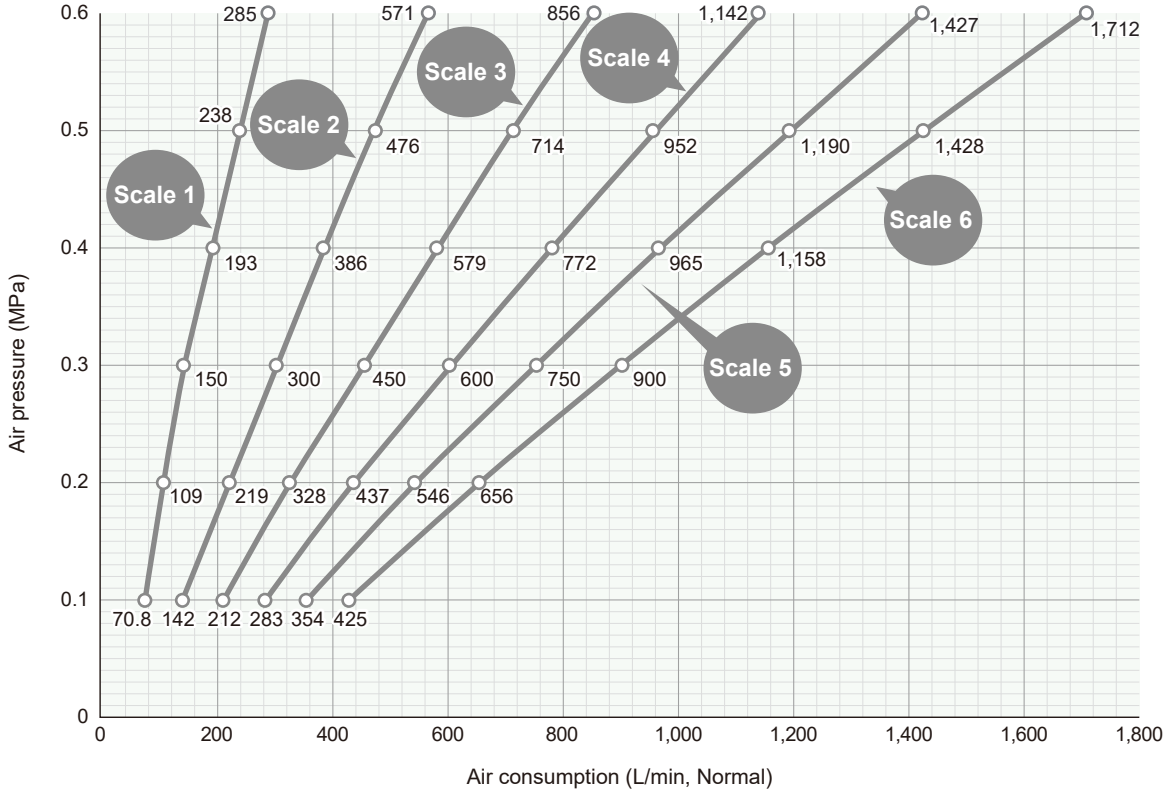
■EJA300



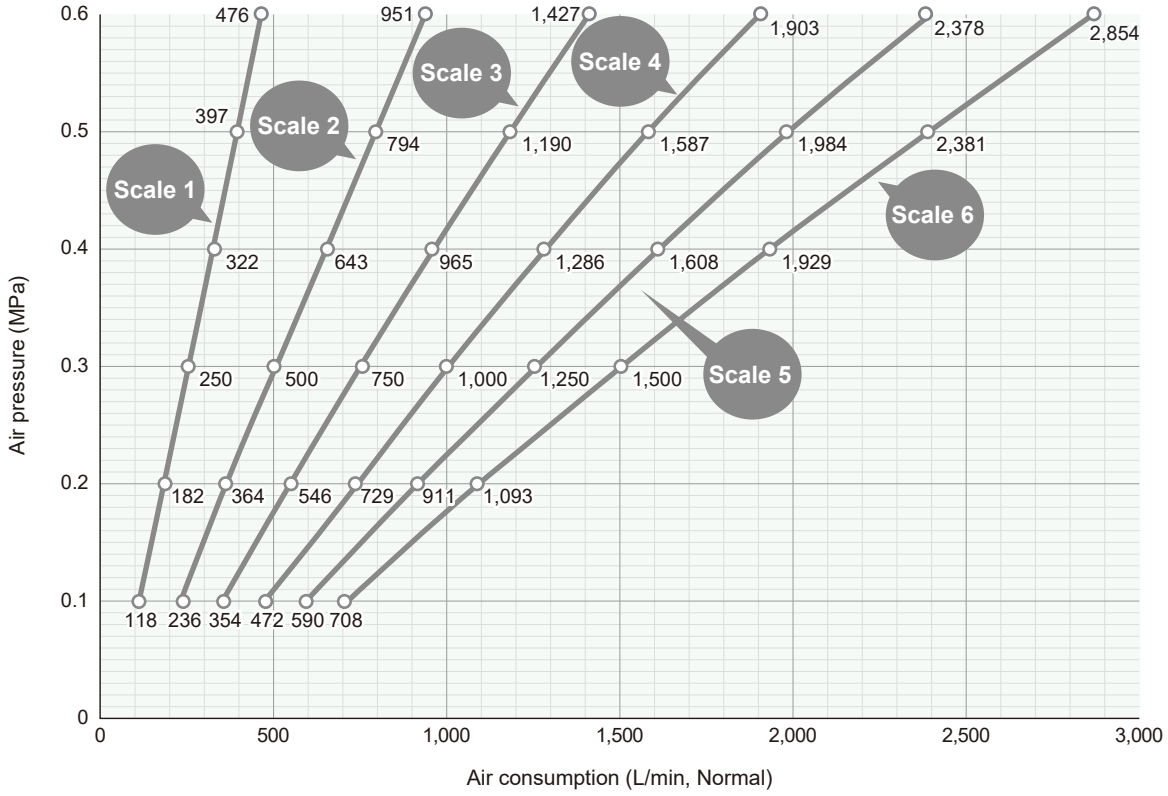
Scales 1–6 are the dial markings on the nozzle for air flow adjustment.

Air Consumption

■EJA450



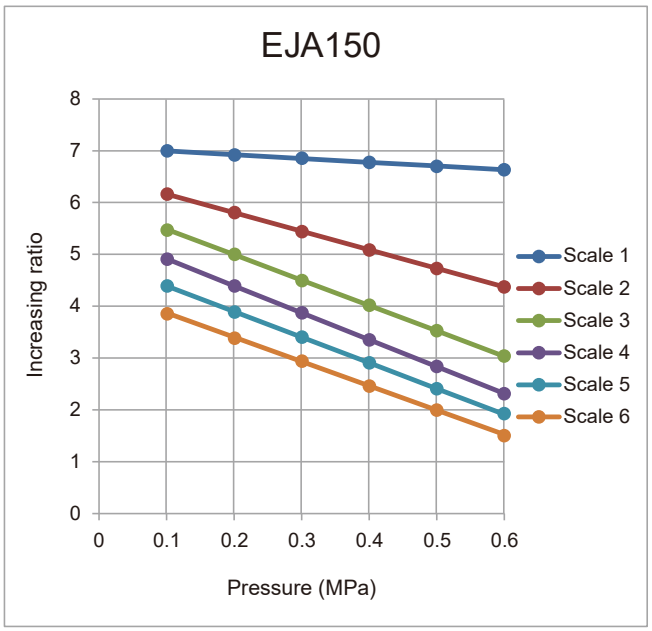
■EJA750

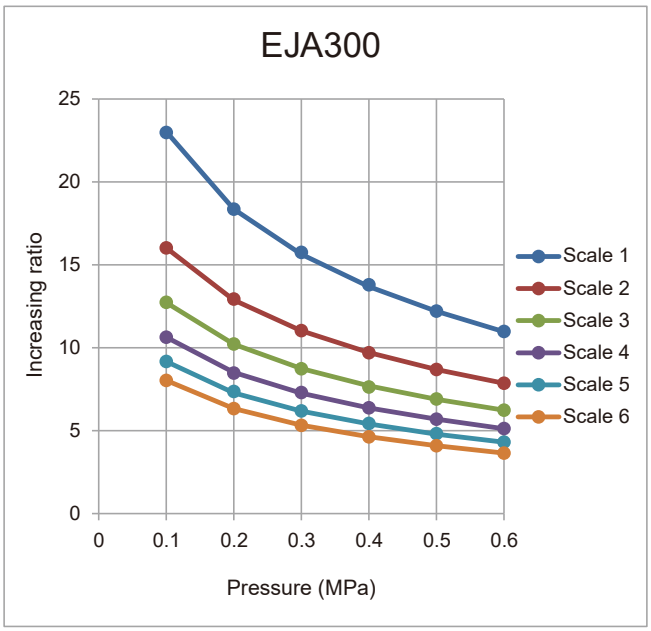


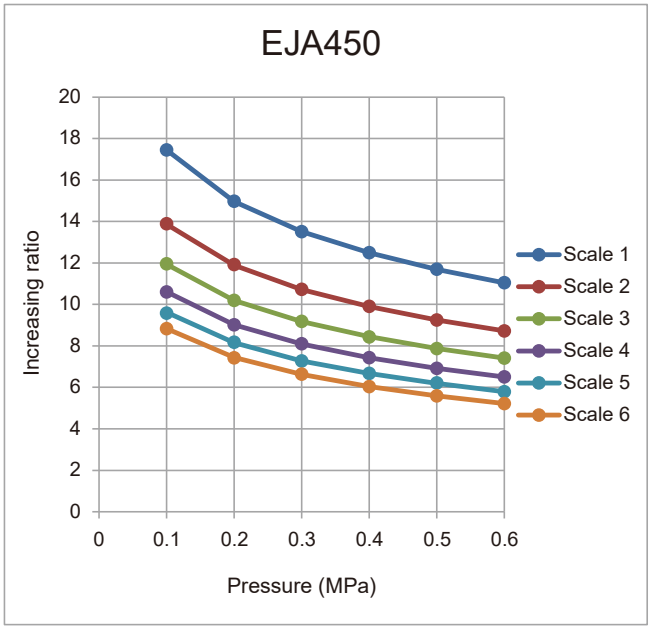
Scales 1–6 are the dial markings on the nozzle for air flow adjustment.

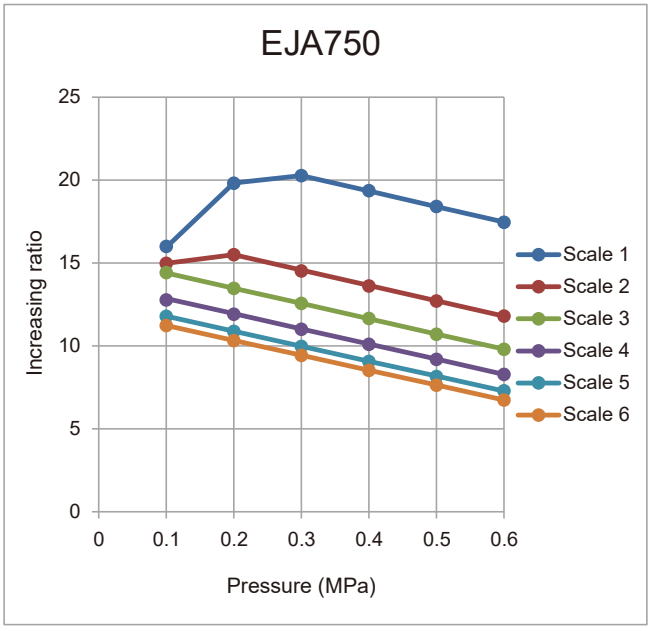
Air Amplification Ratio

Ratio of blown air volume to supply air volume.
The graphs below show the increase in air output compared to air intake.





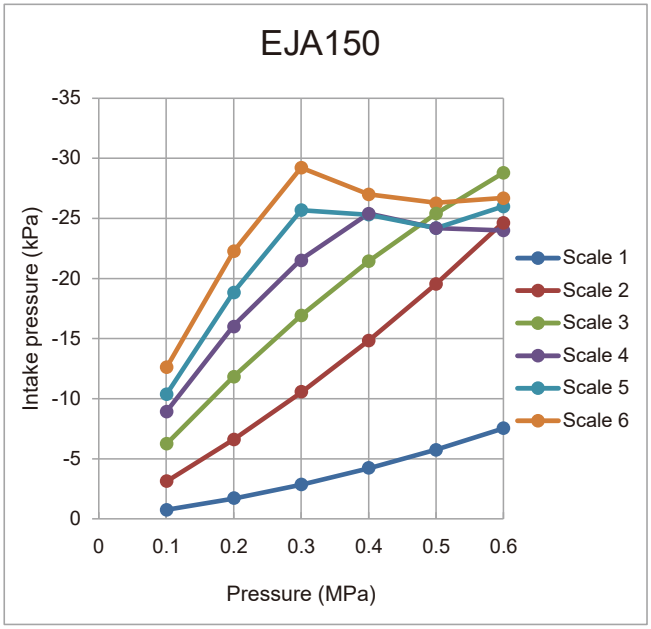


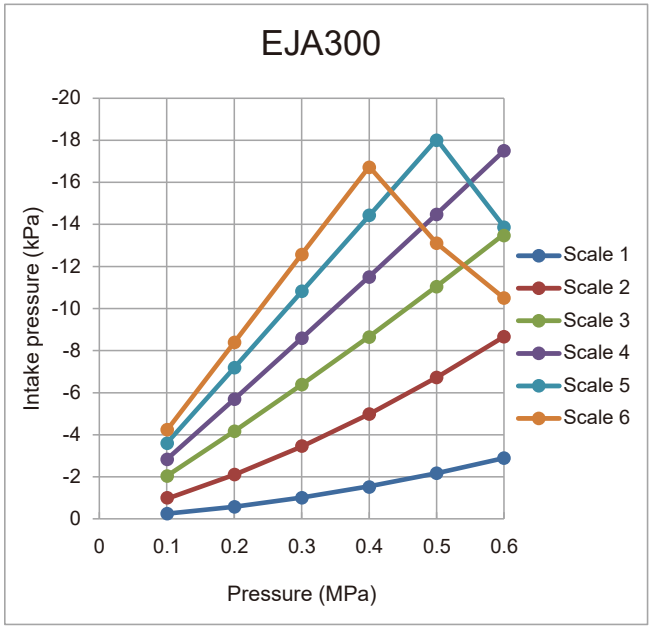


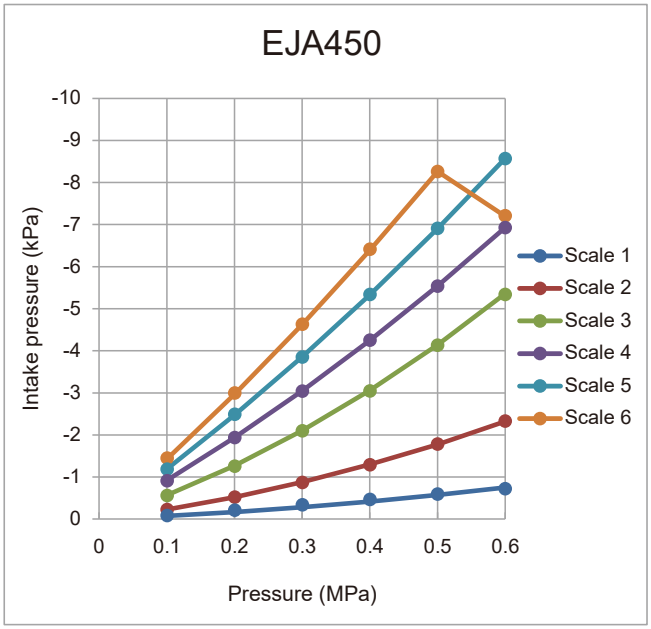
Scales 1–6 are the dial markings on the nozzle for air flow adjustment.

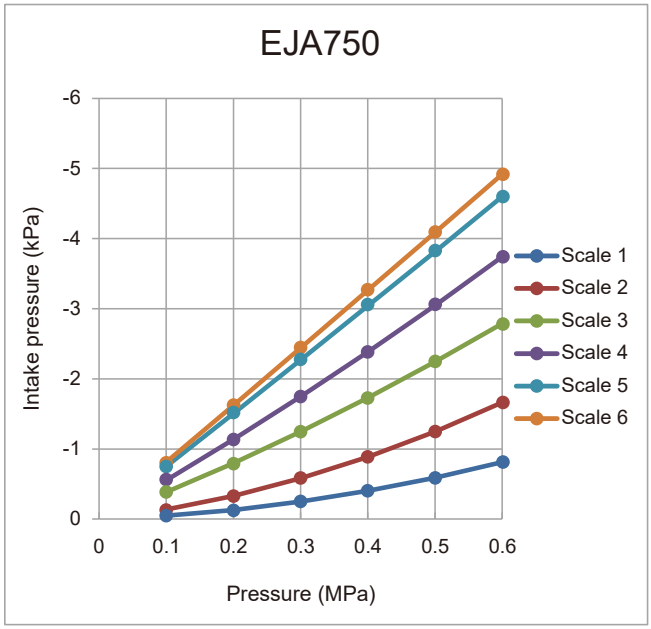
Intake Air Pressure

Intake air pressure is the pressure applied to the intake port of the nozzle (see Page 48).
If using the nozzle for an air intake application like powder transfer, set the flow adjustment dial to 3 or 4.









HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system. See Page 48.

<Example> 1/4F EJA 300 S303

1/4F **EJA 300** **S303**

Pipe Conn. Size*
- 1/8F
- 1/4F
- 3/8F

Capacity Code
- EJA150
- EJA300
- EJA450
- EJA750

*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/8F = Rc1/8.

Air blow gun

TAIFUJet® TF-GUN

For compressors

- Easy-to-use air duster gun with TAIFUJet nozzle.
- Available with three different nozzles: TF-R (round jet), TF-F24 (compact flat jet), or TF-F42 (flat jet).
- Air volume adjustable with built-in valve.

Material
Nozzle: PP, PPS
Air duster gun: PP, POM, etc.

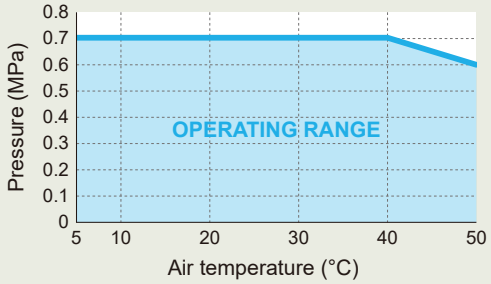
Weight
TF-GUN with TF-R: 96 g
TF-GUN with TF-F24: 99 g
TF-GUN with TF-F42: 124 g

Max. temperature
TF-GUN with TF-R: 50°C (120°F)
TF-GUN with TF-F24: 50°C (120°F)
TF-GUN with TF-F42[*1]: 50°C (120°F)

Air consumption at 0.3 MPa (with air flow valve set to Max.)
TF-GUN with TF-R: 225 L/min, Normal
TF-GUN with TF-F24: 200 L/min, Normal
TF-GUN with TF-F42: 350 L/min, Normal

Max. operating pressure
0.7 MPa (100 psi)[*1]

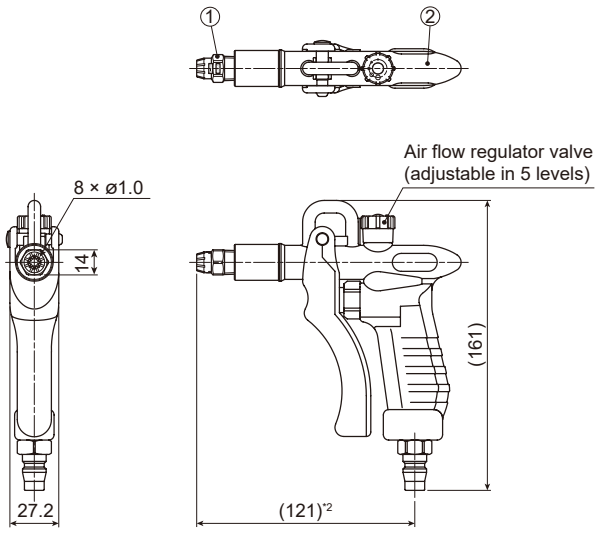
Operating range of TF-GUN with TF-F42



[*1] Heat resistance varies depending on the pressure applied.
Blue colored area indicates the operating range.

Drawing

■1/4M TF-R 8-010 PPS-IN + Air duster TD-30H



Note:
Technical drawings for other models available upon request:
1/8M TF-F 24-8-010 PPS-IN + Air duster TD-30H
1/4M TF-F 42-16-010 PPS + Air duster TD-30H

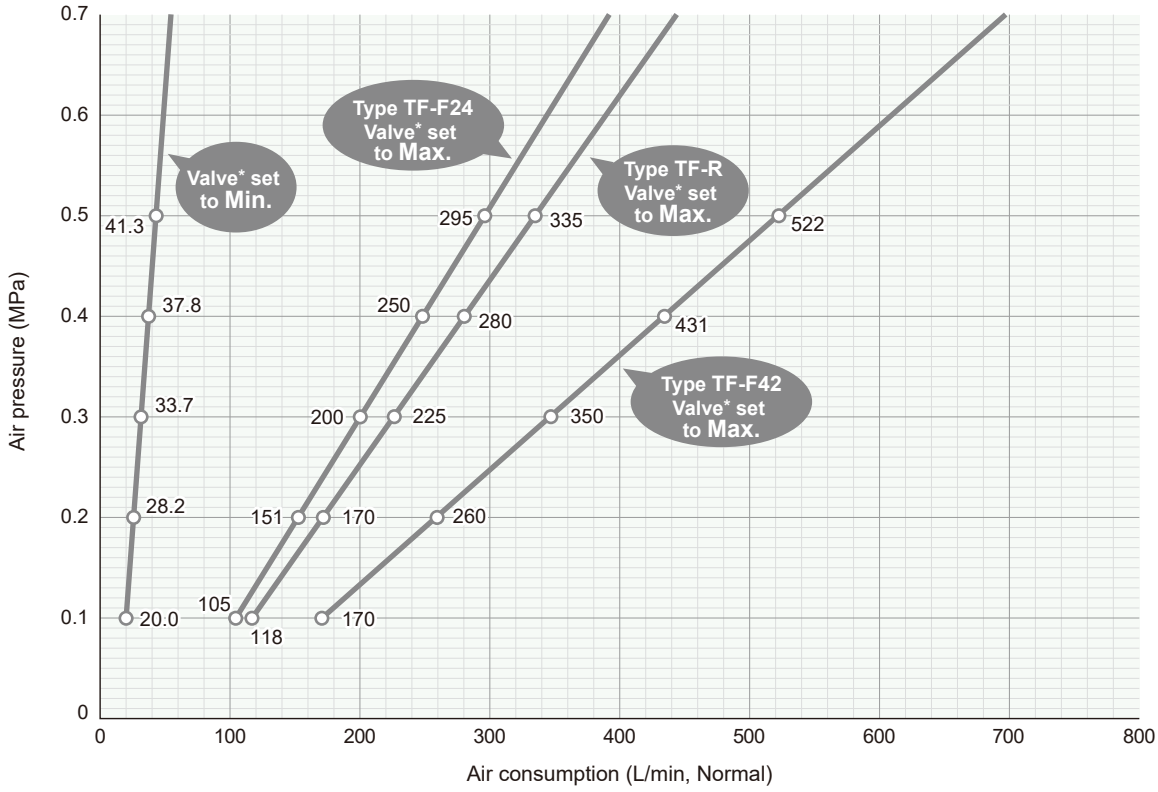
1. Nozzle
2. Air duster gun[*2]

[*2] Length differs by model:
127 mm for 1/8M TF-F 24-8-010 PPS-IN + Air duster TD-30H,
184 mm for 1/4M TF-F 42-16-010 PPS + Air duster TD-30H.

Quick fitting (JS-02) for air supply connection included.

Unit: mm

Air Consumption



*Air flow regulator valve (built-in)

HOW TO ORDER

Please inquire or order using these product codes.

<Example> Round jet nozzle TF-R + blow gun:

1/4M TF-R 8-010 PPS-IN + Air duster TD-30H

<Example> Compact flat jet nozzle TF-F24 + blow gun:

1/8M TF-F 24-8-010 PPS-IN + Air duster TD-30H

<Example> Flat jet nozzle TF-F42 + blow gun:

1/4M TF-F 42-16-010 PPS + Air duster TD-30H

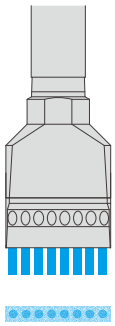
Blower air nozzle: 42 mm wide flat jet

TAIFUJet® TF-BF42

Plastic

Metal

For blowers



Blow pattern

- 42 mm wide air booster nozzle delivers a flat blow pattern.
- Powerful, high impact air stream lowers energy consumption by 2/3 compared to compressed air nozzles.
- Unique design provides uniform and efficient air flow distribution at low noise level.

Material
Plastic: ABS, Metal: Aluminum A5052

Weight
Plastic: 26 g, Metal: 65 g

Max. operating pressure
100 kPa (14 psi)
[100 kPa = 0.1 MPa]

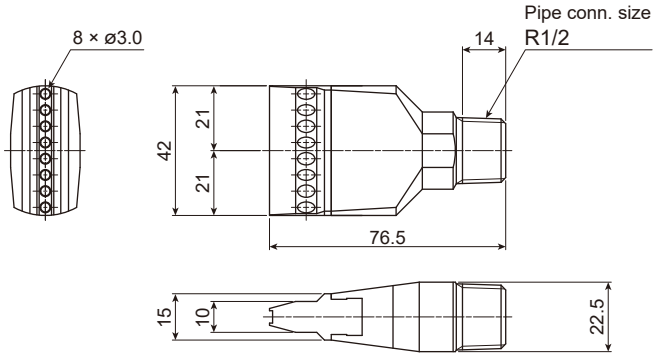
Max. temperature
Plastic: 80°C (170°F), Metal: 150°C (300°F)

Noise level
85 dBA at 30 kPa

Air consumption
0.565 m^3/min [565 L/min], Normal at 30 kPa

Drawing

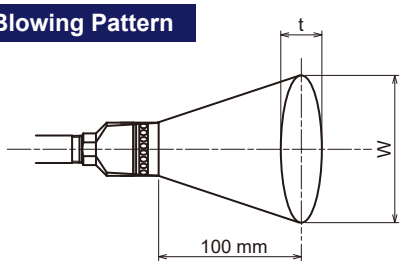
■1/2M TF-BF 42-8-030 ABS
■1/2M TF-BF 42-8-030 A5052



Adhesive is used for assembly of some parts.

Unit: mm

Blowing Pattern



Air pressure (kPa)	Blowing width W (mm)	Thickness t (mm)
10	50	50
30	55	50
50	55	50

Noise Level

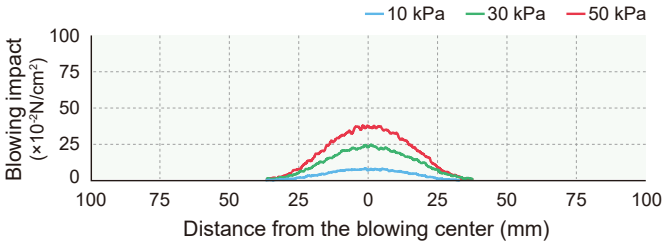
at a distance of 1,000 mm

Background noise: 46 dBA

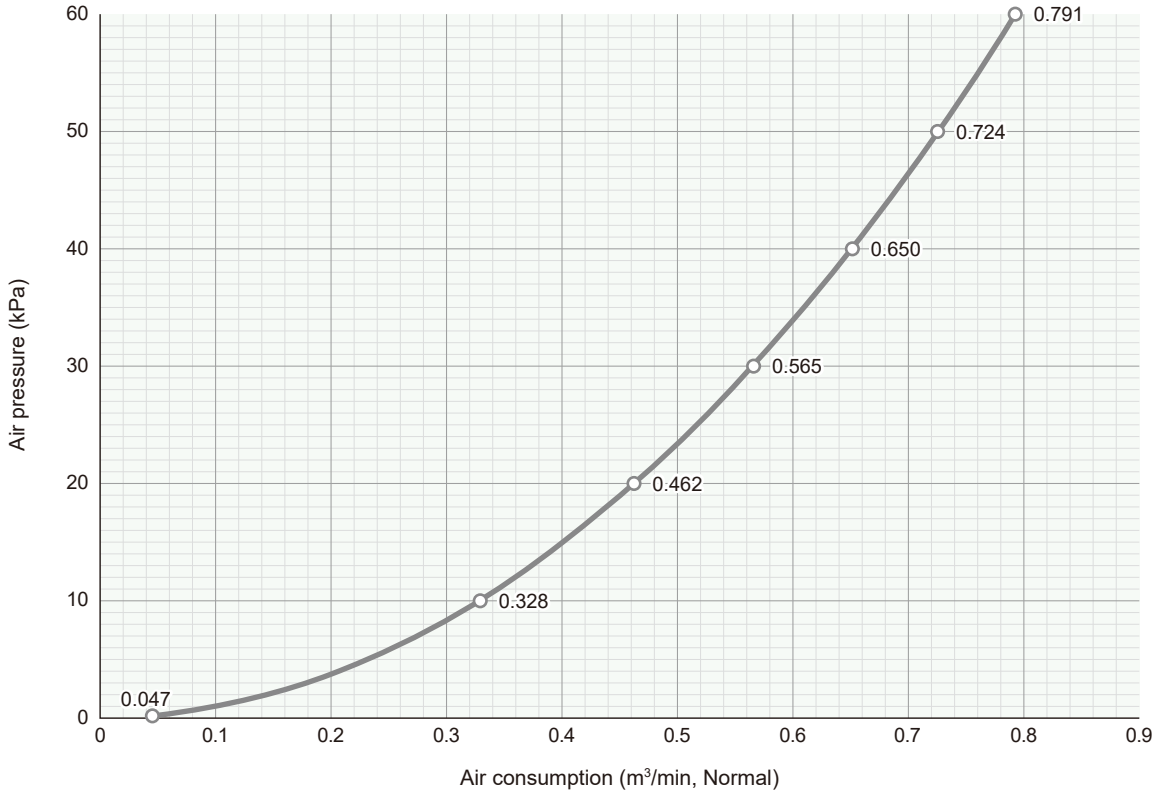
Pressure (kPa)	Noise level (dBA)
10	81
30	85
50	86

Blowing Impact Distribution

at 100 mm below the nozzle orifice



Air Consumption



HOW TO ORDER

Please select the material when inquiring or placing an order using this product code.

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

1/2M TF-BF 42-8-030 ABS

Material
- ABS
- A5052

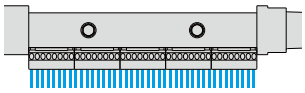
Blower air nozzle: Long flat jet

TAIFUJet® TF-BPF

Plastic

Metal

For blowers



Blow pattern

- Long flat air booster nozzle suitable for installation in confined spaces.
- Powerful, high impact air stream can reduce energy consumption by 2/3 compared to compressed air nozzles.
- Unique design provides uniform and efficient distribution of air flow.
- Blow coverage customizable by multiples of 42 mm up to a blow length of 1,596 mm.

Main materials
Plastic: PPS (nozzle tip) and HTPVC (pipe header)
Metal: Aluminum A5052

Weight[*1]
Plastic: 220–4,360 g

Max. operating pressure
Plastic[*2]: 100 kPa (14 psi), Metal: 100 kPa (14 psi)
[100 kPa = 0.1 MPa]

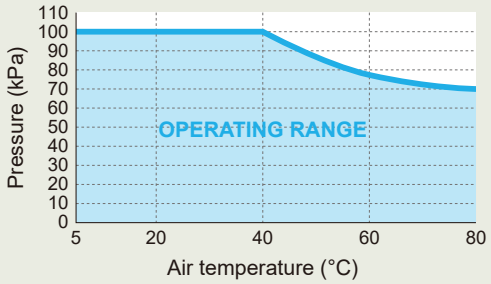
Max. temperature
Plastic[*2]: 80°C (170°F), Metal: 150°C (300°F)

Noise level
106 dBA at 30 kPa (for plastic TF-BPF 420-80-030)

Air consumption
2.94–15.5 m³/min [2,940–15,500 L/min], Normal at 30 kPa

[*1] Contact us for weight of aluminum TF-BPF series nozzle.

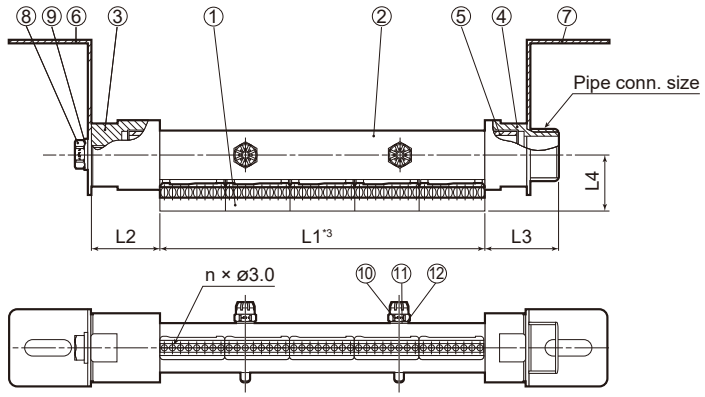
Operating range of plastic model



[*2] Heat resistance varies depending on the pressure applied. Blue colored area indicates the operating range of plastic TF-BPF series.

Drawing

This drawing is of plastic TF-BPF series. (Contact us for aluminum TF-BPF series.)



[*3] L1 = Length of nozzle tips (42 mm x number of nozzle tips)

Configuration may differ.

■Materials

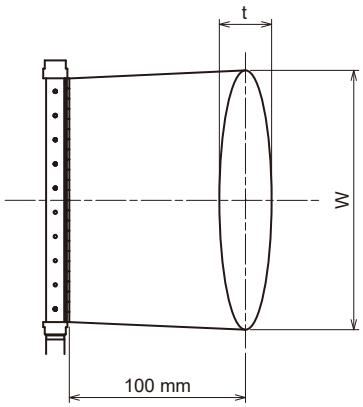
	Components	Materials	Remarks
1	Nozzle tip	PPS	
2	Pipe	HTPVC	
3	Cap	HTPVC	PPS for 2 1/2″
4	Adaptor	HTPVC	PPS for 2 1/2″
5	Sleeve	HTPVC	
6	Plate (fixed)	S304	Optional
7	Plate (loose)	S304	Optional
8	Bolt (M10)	S304	Optional
9	Washer (10)	S304	Optional
10	Bolt (M6)	S304	
11	Packing	PTFE	
12	Washer (6)	S304	

Sealing materials are used for assembly of some parts.

■Dimensions and weight

Pipe conn. size	Number of orifices [n]	Number of nozzle tips	Outer dimensions (mm)				Weight (g)	
			L1[*3]	L2	L3	L4	Plastic TF-BPF	Plate (option)
R1	16– 40	2– 5	84– 210	45	48	36	220– 330	230
R1½	48–104	6–13	252– 546	56	66	44	580– 950	590
R2	112–176	14–22	588– 924	66	73	50	1,530–2,060	570
R2½	184–304	23–38	966–1,596	74	84	58	2,990–4,360	550

Blowing Pattern



■Model: 1*1/2M TF-BPF 420-80-030 PPS+HTPVC

Air pressure (kPa)	Blowing width W (mm)	Thickness t (mm)
10	425	50
30	430	50

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

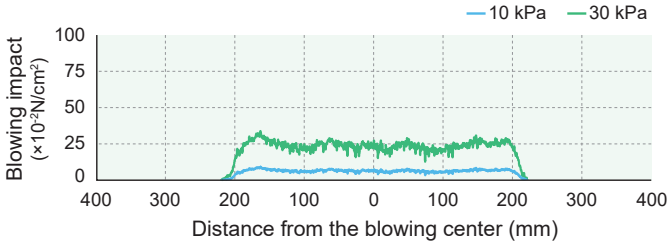
■Model: 1*1/2M TF-BPF 420-80-030 PPS+HTPVC

Pressure (kPa)	Noise level (dBA)
10	106
30	106

Blowing Impact Distribution

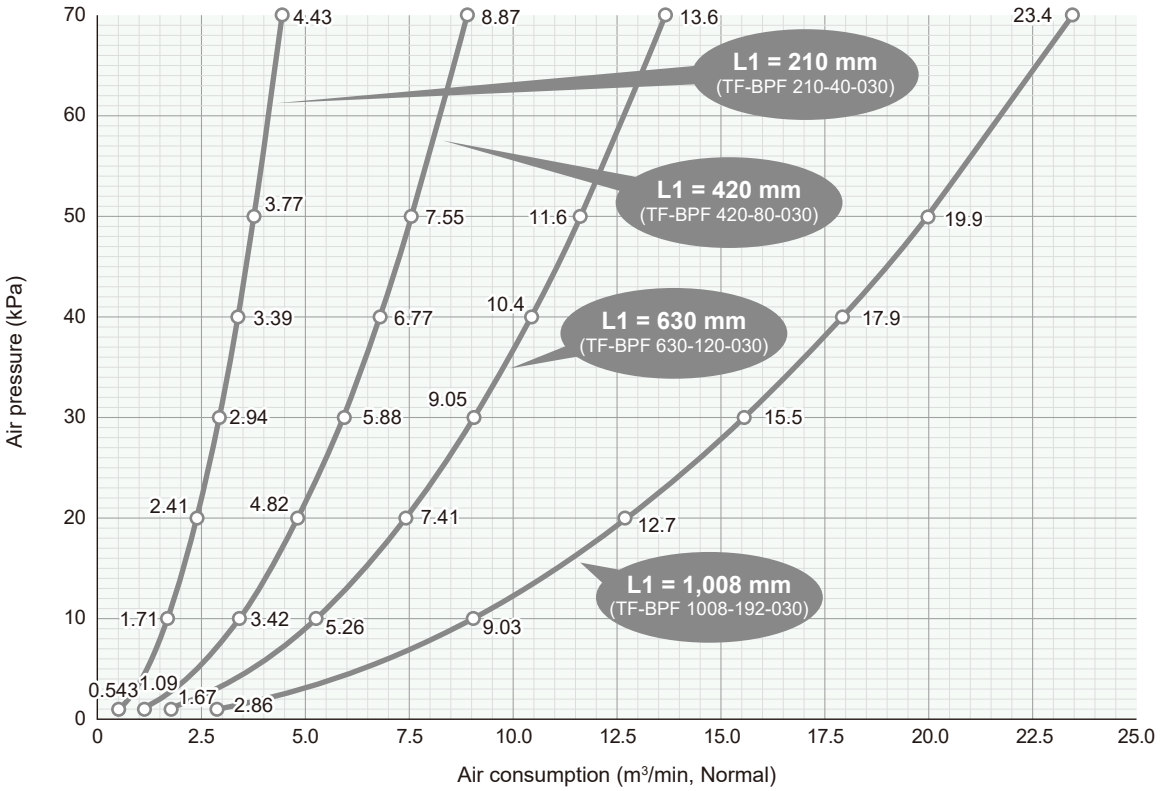
at 100 mm below the nozzle orifice

■Model: 1*1/2M TF-BPF 420-80-030 PPS+HTPVC



Air Consumption

L1 = Length of nozzle tips (see Page 57)



HOW TO ORDER | **Please let us know the required length of nozzle tips when inquiring or placing an order.**

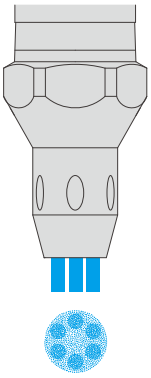
Blower air nozzle: Round jet

TAIFUJet® TF-BR

Plastic

Metal

For blowers



Blow pattern

- Round jet air booster nozzle with six orifices generates a powerful, high impact air stream while saving energy.
- It can reduce energy consumption by 2/3 compared to compressed air nozzles.
- Low noise level.

Material
Plastic: ABS, Metal: Aluminum A5052

Max. temperature
Plastic: 80°C (170°F), Metal: 150°C (300°F)

Weight
Plastic: 8 g, Metal: 20 g

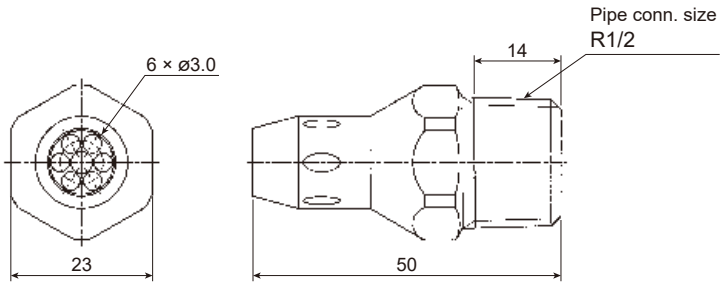
Noise level
86 dBA at 30 kPa

Max. operating pressure
100 kPa (14 psi)
[100 kPa = 0.1 MPa]

Air consumption
0.478 m³/min [478 L/min], Normal at 30 kPa

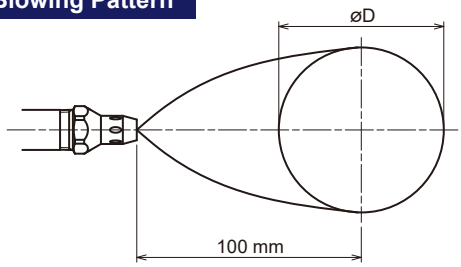
Drawing

■1/2M TF-BR 6-030 ABS
■1/2M TF-BR 6-030 A5052



Unit: mm

Blowing Pattern



Air pressure (kPa)	Blowing width øD (mm)
10	40
30	40
50	40

Noise Level

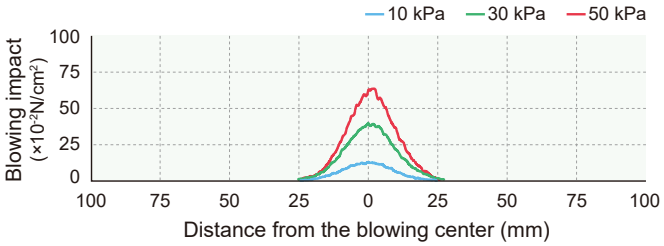
at a distance of 1,000 mm

Background noise: 46 dBA

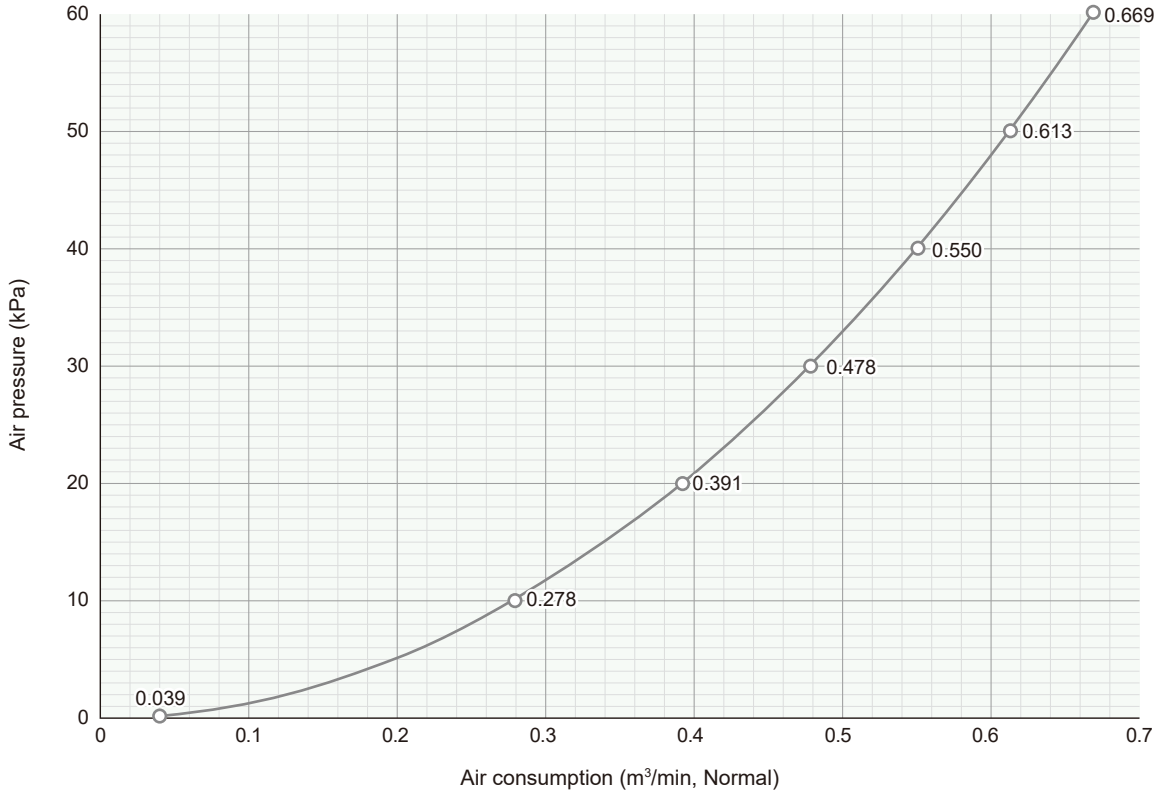
Pressure (kPa)	Noise level (dBA)
10	83
30	86
50	88

Blowing Impact Distribution

at 100 mm below the nozzle orifice



Air Consumption



HOW TO ORDER

Please select the material when inquiring or placing an order using this product code.

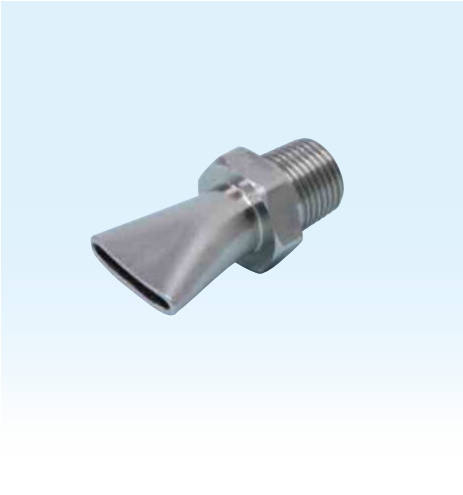
<Example> 1/2M TF-BR 6-030 ABS

1/2M TF-BR 6-030 ABS

Material
- ABS
- A5052

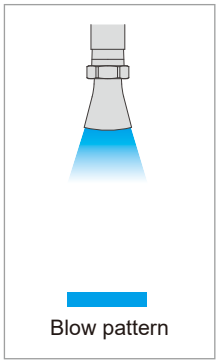
Compact slit jet

SAP



For compressors

For blowers



- Compact design allows for installation in tight spaces and smaller equipment.
- Designed for minimum pressure loss which improves blowing impact and reduces air consumption.
- Lower cost is ideal for use in large quantities.

Material
S304

Weight
Size R1/8:10 g, Size R1/4:16 g

Max. operating pressure
Compressors: 0.7 MPa (100 psi)
Blowers: 50 kPa (7 psi)
[50 kPa = 0.05 MPa]

Max. temperature
400°C (750°F)

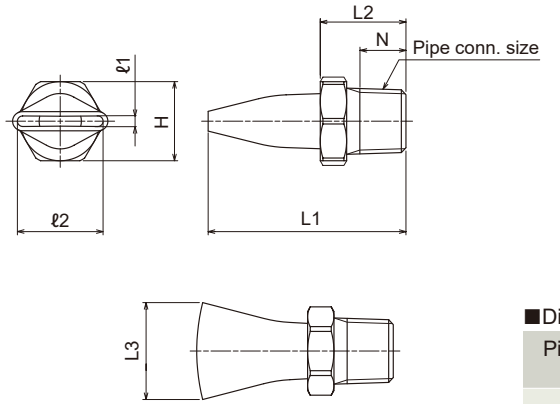
Noise level* (at 30 kPa)
Size R1/8: 75 dBA, Size R1/4: 76 dBA

Air consumption
Compressor air: 736–1,016 L/min, Normal at 0.3 MPa
Blower air: 0.208–0.287 m³/min [208–287 L/min], Normal at 30 kPa

*Noise level when used with blower.

Drawing

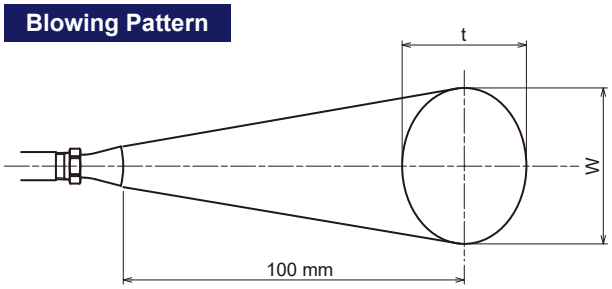
■1/8M SAP 13-15 S304
■1/4M SAP 17-15 S304



■Dimensions and weight

Pipe conn. size	Outer dimensions (mm)							Weight (g)
	L1	L2	L3	ℓ1	ℓ2	H	N	
R1/8	29	13	14.7	1.5	13	12	7	10
R1/4	37	17.5	18.9	1.5	17	14	10.5	16

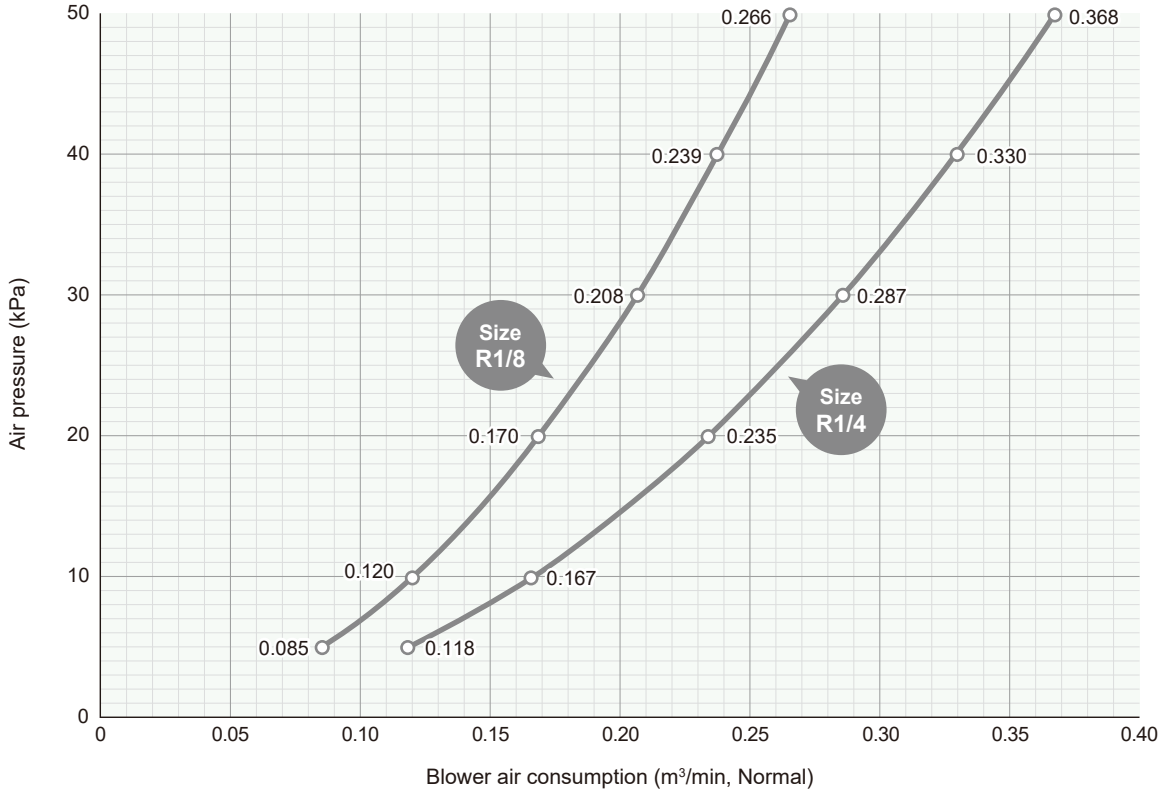
Blowing Pattern



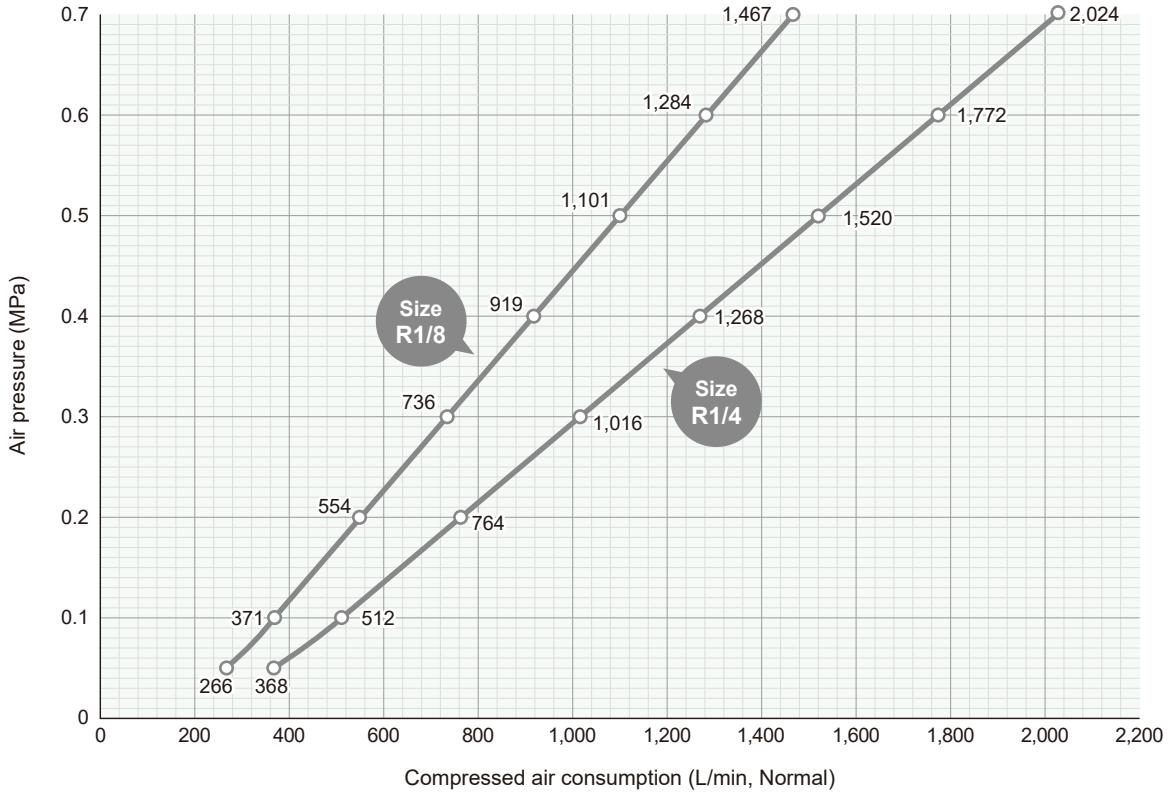
Pipe conn. size	Blowing width W (mm)			Thickness t (mm)		
	10 kPa	30 kPa	50 kPa	10 kPa	30 kPa	50 kPa
R1/8	55	60	60	40	40	40
R1/4	55	55	55	45	45	45

Air Consumption

■When used with blower



■When used with air compressor



Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

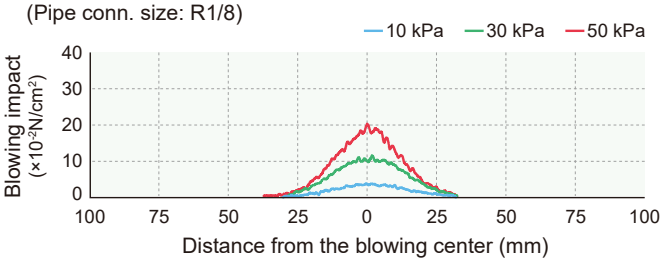
Pipe conn. size	Pressure (kPa)	Noise level (dBA)
R1/8	10	70
	30	75
	50	78

Pipe conn. size	Pressure (kPa)	Noise level (dBA)
R1/4	10	75
	30	76
	50	79

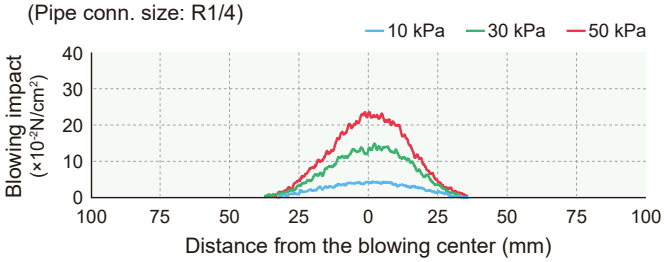
Blowing Impact Distribution

at 100 mm below the nozzle orifice

■**1/8M SAP 13-15 S304**
(Pipe conn. size: R1/8)



■**1/4M SAP 17-15 S304**
(Pipe conn. size: R1/4)



HOW TO ORDER

Please inquire or order for a specific nozzle as below.

Pipe connection size: R1/8

1/8M SAP 13-15 S304

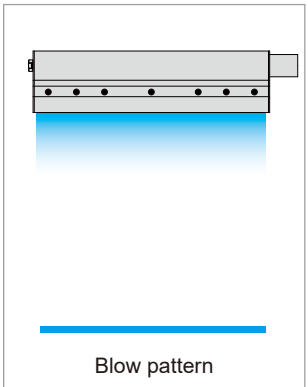
Pipe connection size: R1/4

1/4M SAP 17-15 S304

Blower air nozzle: Long slit jet

SLNB

For blowers



- Slit nozzle produces even air flow with uniform impact distribution.
- Interior design minimizes pressure loss and maximizes blowing impact. Able to reduce energy consumption by 2/3 compared to compressed air nozzles.
- Long thin slit with tapered lip ideal for installation between rollers or in tight spaces.

Material
S304

Max. temperature
100°C (212°F) for Standard Type, 150°C (302°F) for Heat-resistant Type

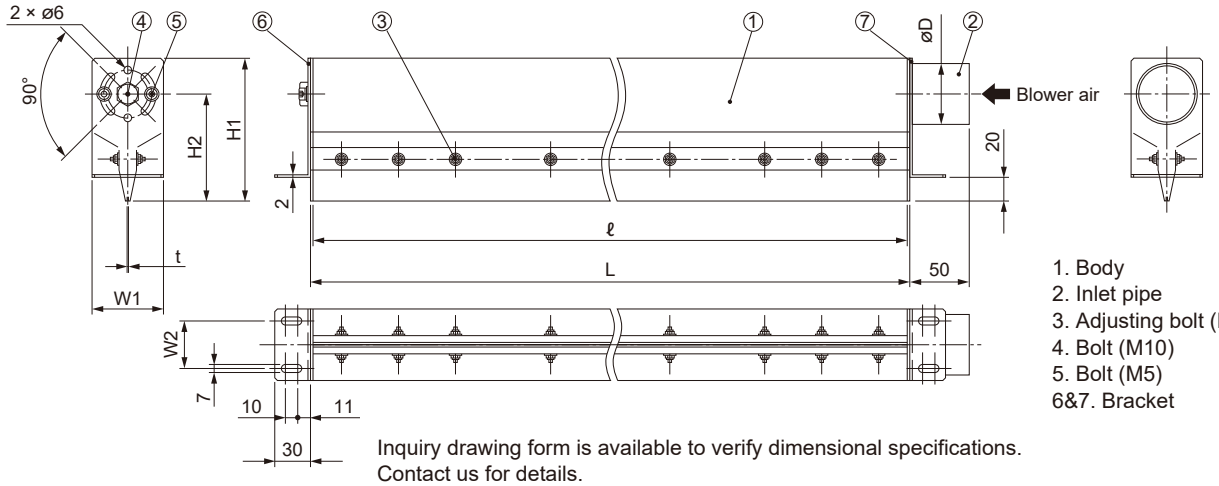
Weight
1.9–7.4 kg

Noise level
90 dBA at 20 kPa (for slit length of 800 mm)

Max. operating pressure
30 kPa (4 psi)
[30 kPa = 0.03 MPa]

Air consumption (at 5 kPa)
0.97–2.91 m³/min [970–2,910 L/min], Normal for slit opening of 0.5 mm
1.91–5.73 m³/min [1,910–5,730 L/min], Normal for slit opening of 1.0 mm

Drawing



1. Body
2. Inlet pipe
3. Adjusting bolt (M4)
4. Bolt (M10)
5. Bolt (M5)
6&7. Bracket

Inquiry drawing form is available to verify dimensional specifications.
Contact us for details.

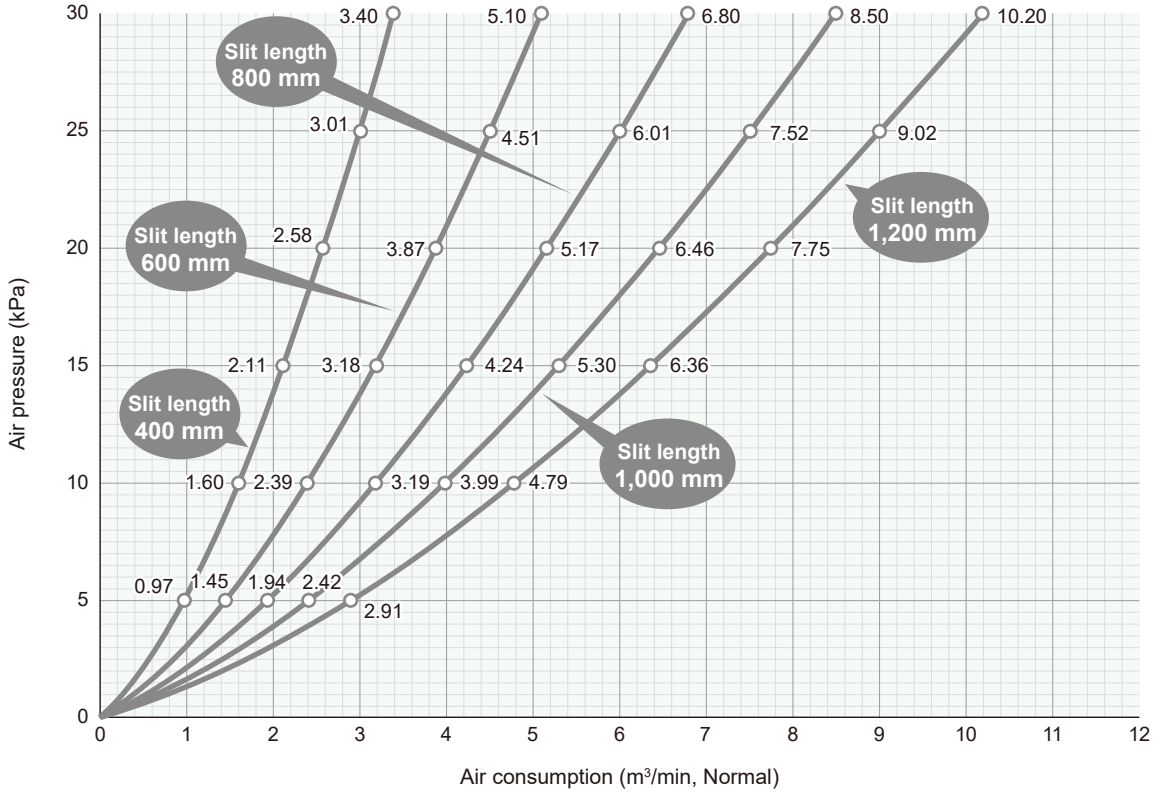
■Dimensions and weight

Air inlet type	Slit length ℓ (mm)	Slit opening t (mm)	Outer dimensions (mm) L*1	H1	H2	W1	W2	øD	Weight*2 (kg)
D38	400	0.5	404	105	80	50	30	38.0	1.9
	600		604						2.7
	800		804						3.5
	1,000		1,004						4.3
D50	1,200		1,204	120	90	60	40	50.8	5.9
D38	400	1.0	404	105	80	50	30	38.0	1.9
D50	600		604	120	90	60	40	50.8	3.2
	800		804						4.1
D65	1,000		1,004	140	102.5	75	50	63.5	6.2
	1,200		1,204						7.4

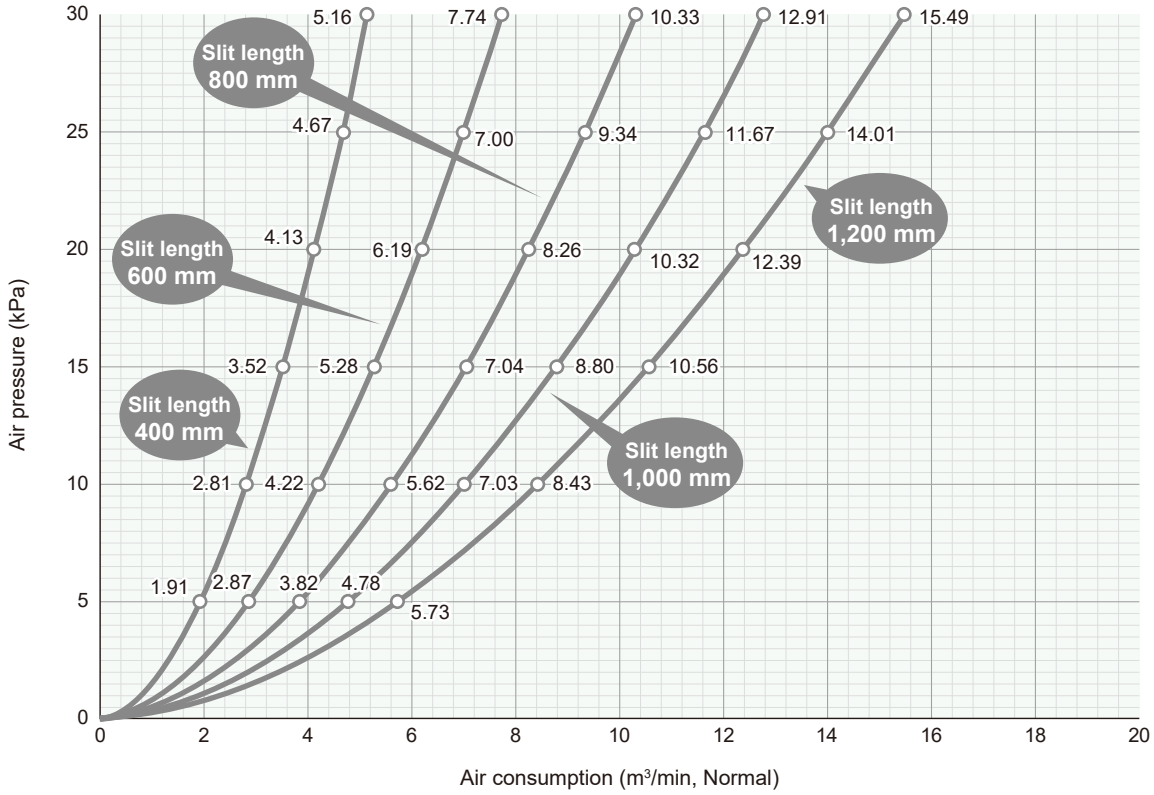
*1 Customizable total length from 250 to 1,950 mm. *2 The optional heat-resistant type weighs about twice as much as the standard type.

Air Consumption

■Slit Opening: 0.5 mm



■Slit Opening: 1.0 mm



Noise Level

at a distance of 1,000 mm

Background noise: 35 dBA

■SLNB 800×0.5

(Slit length: 800 mm, slit opening: 0.5 mm)

Pressure (kPa)	Noise level (dBA)
5	87
10	88
15	89
20	90

■SLNB 800×1.0

(Slit length: 800 mm, slit opening: 1.0 mm)

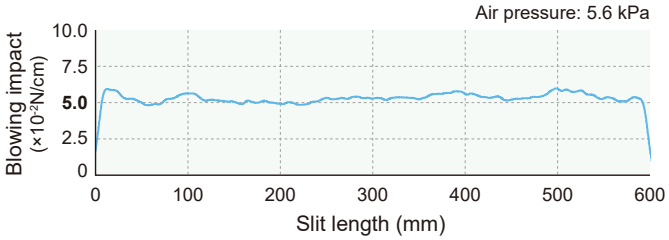
Pressure (kPa)	Noise level (dBA)
5	82
10	87
15	90
20	90

Blowing Impact Distribution

at 5 mm below the nozzle orifice

■SLNB 600×0.5

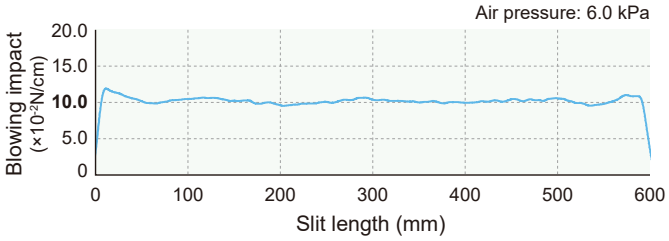
(Slit length: 600 mm, slit opening: 0.5 mm)



Deviation from median: +/-10.3%

■SLNB 600×1.0

(Slit length: 600 mm, slit opening: 1.0 mm)



Deviation from median: +/-5.5%

HOW TO ORDER

Please inquire or order for a specific nozzle using this coding system. See Page 65.

<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 ●600	●0.5
●D50	●800 ●1000	●1.0
●D65	●1200	

Universal ball joint adaptor UT

Plastic

Materials:
Adaptor and Cap: FRPP
Ball: FRPP & PP & EPDM

Metal

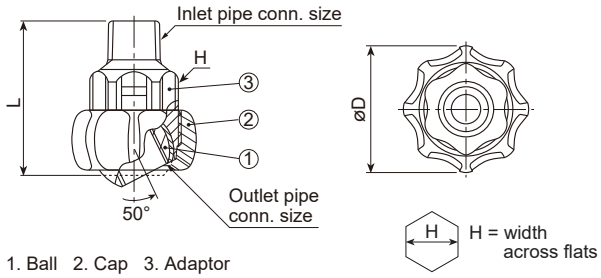
Materials:
S303 or B (brass)
Optional material: S316 or others

Photo is a UT Ball Joint with a nozzle attached.

- Allows for precise alignment and adjustment of the nozzle and blow direction after installation within a range of 50°.
- Plastic version: easy installation, no tools required. Cost saving, light-weight injection-mold construction. No O-ring.
- Metal version: available in variety of pipe connection sizes, designed to withstand pressures up to 15 MPa (stainless steel UT).

Drawing

Plastic

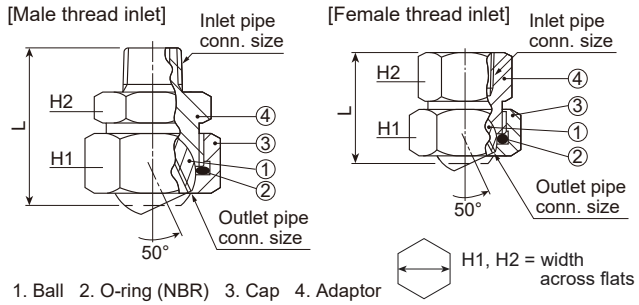


1. Ball 2. Cap 3. Adaptor

■Dimensions and weight

Ball joint code (Inlet × Outlet)	Inlet pipe conn. size	Outlet pipe conn. size	Outer dimensions (mm)			Weight (g)
			L	H	øD	
UT 1/8M×1/8F	R1/8	Rc1/8	38	21	32	12
UT 1/4M×1/8F	R1/4	Rc1/8	40	21	32	13
UT 1/4M×1/4F	R1/4	Rc1/4	40	21	32	12
UT 3/8M×1/8F	R3/8	Rc1/8	41	21	32	13
UT 3/8M×1/4F	R3/8	Rc1/4	41	21	32	12

Metal



1. Ball 2. O-ring (NBR) 3. Cap 4. Adaptor

■Dimensions and weight

Ball joint code (Inlet × Outlet)	Inlet pipe conn. size	Outlet pipe conn. size	Outer dimensions (mm)			Weight (g)	
			L	H1	H2	S303	B
UT 1/8M×1/8F	R1/8	Rc1/8	32.5	22	21	56	60
UT 1/4M×1/8F	R1/4	Rc1/8	36.0	22	21	60	–
UT 1/4M×1/4F	R1/4	Rc1/4	39.5	29	24	100	110
UT 3/8M×1/4F	R3/8	Rc1/4	40.0	29	24	110	115
UT 3/8M×3/8F	R3/8	Rc3/8	47.5	35	30	190	205
UT 1/2M×1/2F	R1/2	Rc1/2	54.5	41	41	325	–
UT 3/4M×3/4F	R3/4	Rc3/4	61.5	50	46	490	–
UT 1/8F×1/8F	Rc1/8	Rc1/8	28.5	22	21	63	–
UT 1/4F×1/8F	Rc1/4	Rc1/8	28.5	22	21	58	–
UT 1/4F×1/4F	Rc1/4	Rc1/4	33.5	29	24	110	–
UT 3/8F×1/4F	Rc3/8	Rc1/4	33.5	29	24	100	–
UT 3/8F×3/8F	Rc3/8	Rc3/8	44.5	35	30	220	–
UT 1/2F×1/2F	Rc1/2	Rc1/2	48.5	41	41	375	–
UT 3/4F×3/4F	Rc3/4	Rc3/4	55.5	50	46	560	–

UT-B (brass) series only available in certain sizes.

HOW TO ORDER

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

Plastic <Example> UT 1/4M × 1/8F FRPP-IN

UT **1/4M** × **1/8F** **FRPP-IN**

- 1/4M: Inlet Pipe Connection Size*
  - ●1/8M
  - ●1/4M
  - ●3/8M
- 1/8F: Outlet Pipe Connection Size*
  - ●1/8F
  - ●1/4F

Metal <Example> UT 1/4M × 1/4F S303

UT **1/4M** × **1/4F** **S303**

- 1/4M: Inlet Pipe Connection Size*
  - ●1/8M ●1/8F
  - ●1/4M ●1/4F
  - ●3/8M ●3/8F
  - ●1/2M ●1/2F
  - ●3/4M ●3/4F
- 1/4F: Outlet Pipe Connection Size*
  - ●1/8F
  - ●1/4F
  - ●3/8F
  - ●1/2F
  - ●3/4F
- S303: Material
  - ●S303
  - ●B

*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/4M = R1/4.

Cautions

Metal UT Use UT-S303 only at pressures below 15 MPa, UT-B (brass) below 4 MPa.
Plastic UT Use UT-FRPP only at pressures below 1 MPa (at room temperature).
Do not use UT ball joint adaptors if sudden changes in air pressure can occur.

Universal joints 360° rotatable — WUT

Photo is a WUT with a nozzle attached.

- Able to rotate 360° to adjust blow direction. Desired position can be locked in place with bolt.
- Stabilizing function suppresses internal turbulences.
- Safety design prevents parts from falling when bolt is released.

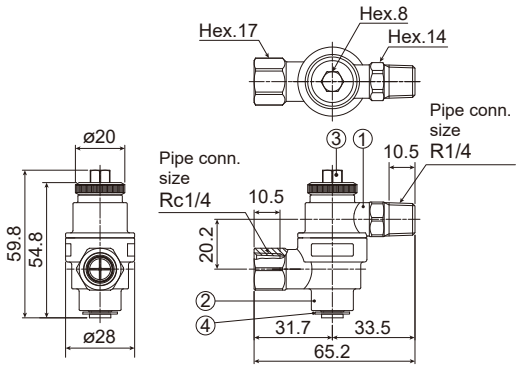
Drawing

Materials:
1. Adaptor (SCS13)
2. Adaptor (SCS13)
3. Bolt (S303)
4. E-ring (S304)

O-ring (NBR)

Weight: 146 g

Unit: mm



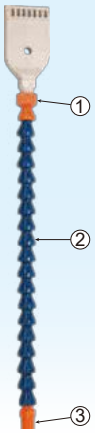
HOW TO ORDER — Please inquire or order using this product code.

WUT 1/4M × 1/4F SCS13

Cautions
- Bolt may loosen due to vibration, if not securely tightened with a torque-wrench at 6 N m.
- Max. operating pressure: 3 MPa • Max. temperature: 90°C (190°F)

Flexible tubes — FT

Photo is FT series tube with TAIFUJet attached.



Number of segments: 18 EA.*1

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

①Rc1/8 or Rc1/4 threaded female connector (for nozzle)
②Segments
③R1/8 or R1/4 threaded male connector (to air supply)

*1Select number of segments for tube from 2, 6, 10, 14, or 18.

■Dimensions and weight

Connection thread size ③	Connection thread size ①	Total length*2 (mm)	Number of segments (EA.)	Weight (g)
R1/8	Rc1/8	71	2	8.6
		131	6	15.4
		190	10	22.2
		249	14	29.0
		309	18	35.8
R1/4	Rc1/4	76	2	9.2
		135	6	16.0
		194	10	22.8
		254	14	30.0
		313	18	36.4
R1/4	Rc1/8	71	2	9.0
		131	6	15.8
		190	10	22.6
		250	14	28.6
		309	18	36.2

*2Total length excludes nozzle.

- Tube path and angle can be adjusted as desired. Each segment can be bent up to 24 degrees from the central axis.
- Highly flexible hose holds position well.
- Compatible with various types of air nozzles depending on application.

HOW TO ORDER — Please inquire or order for a specific tube using this coding system.

Connector ③ to air supply = R1/4 threaded:

<Example> FT 1/4M × 1/4F 76-2 POM

FT 1/4M × 1/4F 76 - 2 POM

- Size of Connector ① for Nozzle*3: ●1/8F ●1/4F
- Total Length: When ① is Rc1/8 threaded: ●71-2 ●131-6 ●190-10 ●250-14 ●309-18; When ① is Rc1/4 threaded: ●76-2 ●135-6 ●194-10 ●254-14 ●313-18
- Number of Segments

Connector ③ to air supply = R1/8 threaded:

<Example> FT 1/8M × 1/8F 71-2 POM

FT 1/8M × 1/8F 71 - 2 POM

- Total Length: ●71-2 ●131-6 ●190-10 ●249-14 ●309-18
- Number of Segments

*3"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/8F = Rc1/8.

Cautions FT series only to be used at pressures **below 0.3 MPa**.
(Depending on the attached nozzle and/or length of the tube, there might be movement in reaction to the blow force).

■Conversion of Units

	mm	cm	m	in	ft
Length	1	0.1	0.001	3.94×10^{-2}	3.28×10^{-3}
	10	1	0.01	3.94×10^{-1}	3.28×10^{-2}
	1×10^{3}	100	1	3.94×10	3.28
	25.4	2.54	2.54×10^{-2}	1	8.33×10^{-2}
	3.05×10^{2}	3.05×10	3.05×10^{-1}	12	1

■Others

Weight	1 kg (1,000 g) ≈ 2.205 lb 1 lb ≈ 0.454 kg (454 g)
Temperature	[°F] ≈ ([°C] × 9/5) + 32 [°C] ≈ 5/9 × ([°F] − 32)

	cm^2	m^2	in^2	ft^2
Area	1	1×10^{-4}	0.155	1.08×10^{-3}
	1×10^{4}	1	1.55×10^{3}	10.8
	6.45	6.45×10^{-4}	1	6.94×10^{-3}
	9.30×10^{2}	9.30×10^{-2}	1.44×10^{2}	1

	L (Liter)	m^3 (kL)	ft^3	Imperial gal.	U.S. gal.
Volume	1	0.001	3.53×10^{-2}	0.220	0.264
	1×10^{3}	1	35.3	220	264
	28.3	2.83×10^{-2}	1	6.23	7.49
	4.55	4.55×10^{-3}	0.16	1	1.2
	3.79	3.79×10^{-3}	0.134	0.833	1

	MPa	kPa	bar	kg/cm^2	psi (lb/in^2)	atm	mmH_2O (mmAq)
Pressure	1	1,000	10	10.2	145	9.87	1.02×10^{5}
	0.001	1	0.01	1.02×10^{-2}	145×10^{-3}	9.87×10^{-3}	1.02×10^{2}
	0.1	100	1	1.02	14.5	0.987	1.02×10^{4}
	0.098	0.098×10^{-3}	0.981	1	14.2	0.968	1×10^{4}
	6.89×10^{-3}	6.89×10^{-6}	0.069	0.070	1	0.068	703
	0.101	0.101×10^{-3}	1.01	1.03	14.7	1	1.03×10^{4}
	9.81×10^{-6}	9.81×10^{-9}	9.81×10^{-5}	1×10^{-4}	1.42×10^{-3}	9.68×10^{-5}	1

	L/min	m^3/min	m^3/hr	in^3/hr	ft^3/hr	Imperial gal./min	U.S. gal./min
Flow rate	1	0.001	0.06	3.66×10^{3}	2.12	0.22	0.264
	1×10^{3}	1	60	3.66×10^{6}	2.12×10^{3}	220	264
	16.7	0.017	1	6.10×10^{4}	35.3	3.67	4.40
	2.73×10^{-4}	2.7×10^{-7}	1.64×10^{-5}	1	5.79×10^{-4}	6.01×10^{-5}	7.22×10^{-5}
	0.472	4.72×10^{-4}	0.028	1.73×10^{3}	1	0.104	0.125
	4.55	4.55×10^{-3}	0.273	1.66×10^{4}	9.63	1	1.20
	3.79	3.79×10^{-3}	0.227	1.39×10^{4}	8.02	0.833	1

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