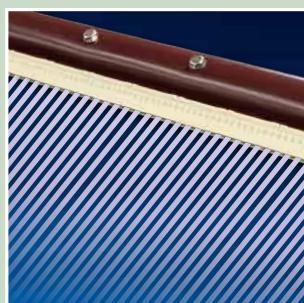
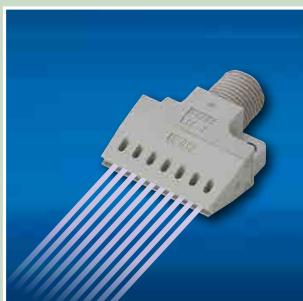




IKEUCHI AIR NOZZLE CATALOG



25AN

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.

Explore our digital catalog, accessible through the QR code below, which includes informative links to videos demonstrating each series of air nozzles in action and 3D CAD models.

<https://we.kinkosonline.jp/html/kirinoikeuchi/7660692/>



CONTENTS

	Page
Case Study 1: Review of Air Nozzles	03
Case Study 2: Automation / Utilizing Blower Air	05
Technical Information	07
Examples of Air Nozzle Usage	08
IKEUCHI Air Nozzle Lineup	09

Nozzles that use compressed air

■ FLAT JET

TAIFUJet TF-F24	11
TAIFUJet TF-FS42	13
TAIFUJet TF-F42	16
TAIFUJet TF-F50	18
TAIFUJet TF-F121	20
HF	22
TAIFUJet TF-PF	25
TAIFUJet TF-PF with detachable nozzle tips	28

■ ROUND JET

TAIFUJet TF-R	31
TAIFUJet TF-M5R	34
CCP-A	36

■ SLIT JET

VZ	38
SLNHA-H	41
SLNHA-NA	44

■ FULL CONE JET

JAN	47
-----	----

■ AIR AMPLIFIER

EJA	50
-----	----

■ AIR BLOW GUN

TF-GUN	56
--------	----

Nozzles that use blower air

■ FLAT JET

TAIFUJet TF-BF42	58
TAIFUJet TF-BPF	60

■ ROUND JET

TAIFUJet TF-BR	63
----------------	----

■ SLIT JET

SAP	65
SLNB	68

Accessories

UT Ball Joint	71
---------------	----

WUT Joint	72
-----------	----

FT Flexible Tube	72
------------------	----

Conversion of Units

73

Scan a QR code on each product page to access its 3D CAD models available on the website of PARTCommunity.
Sign up for an account for free.



"QR Code" is a registered trademark of DENSO WAVE INCORPORATED.
https://ikeuchi.partcommunity.com/3d-cad-models/?languagelso=en&info=ikeuchi/metric_unit/air_nozzle

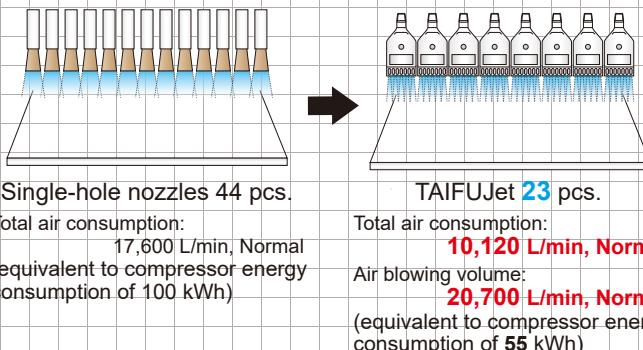
Switch to Energy-saving, High Impact Air Nozzles

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.

45%

Energy savings*



The first step in solving review and

Noise Reduction

Approx.

15 dBA

reduction in noise level*

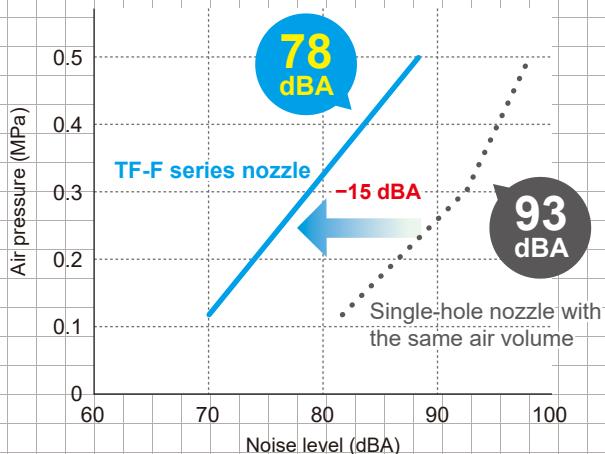
(80% reduction in sound pressure*)

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

$$dB = 20 \times \log_{10}(X)$$



Total annual cost savings

approx. **1.5 million yen***
(US\$11,800)

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\$26,200)	JPY1,870,000 (US\$14,400)

**Calculated with an annual operating time of 2,000 hours (approx. 8 hours/day) and an electricity rate of JPY17 (USD0.13)/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

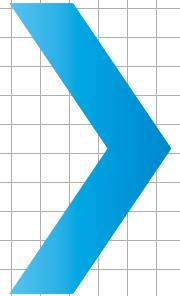
Switching the manual air blow to an automatic sensor-operated air blow allows for a reduction in

Blow pressure

0.4 MPa to **0.25 MPa**

Blow time per piece

1 min. to **20 sec.**

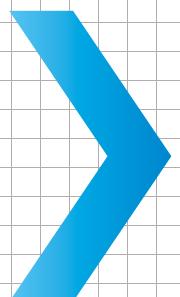


Reviewing the operation operating

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%*

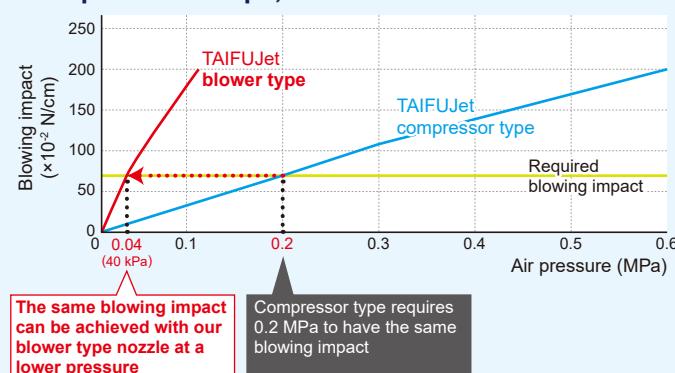
Automation can help improve the blow efficiency that was inconsistent during manual use and thereby lower the air consumption.

can help improve efficiency and costs.

Description		TAIFUJet (10 nozzles each) TF-F 42-16-010 TF-BF 42-8-030	
Air supply source	Compressor	Blower	
Nozzle specifications	Air pressure	0.2 MPa	0.04 MPa
	Air consumption	3,300 L/min, Normal	6,500 L/min, Normal
Operating costs	Power consumption	Approx. 25.9 kW	Approx. 8.9 kW
	Annual operating cost	Approx. JPY880,600 (US\$6,800)	Approx. JPY302,600 (US\$2,300)
	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 (USD0.13)/kWh.
Power consumption is calculated with a motor efficiency of 0.85 and CO₂ emissions of 0.555 kg CO₂ per kWh.

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



The decrease in pressure is compensated by the increase in airflow volume.
The air blow effect (blowing impact) does not change.

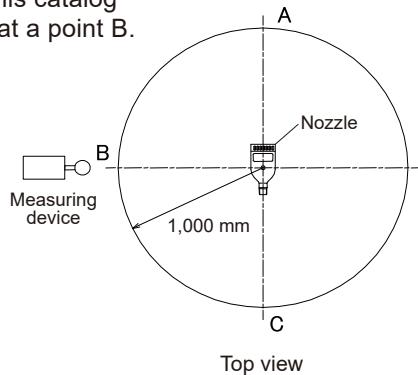
Technical Information

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.

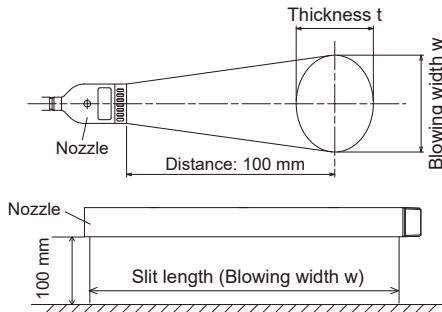


Blowing Pattern Measurement

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.



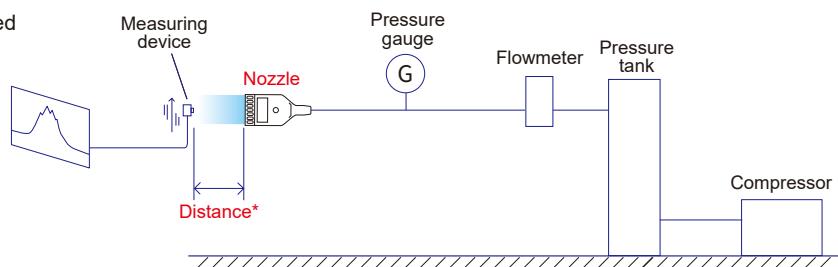
Blowing Impact Measurement

Blowing impact (blowing force) indicates the intensity of air applied to the target surface.

Air blown from the nozzle is measured by a sensor.

The blowing impact increases with an increase of the air pressure supplied.

*The blowing impact in this catalog is measured at a distance of 100 mm from 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.

Plastics	Material code	Material
	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

Metals	Material code	Material
	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

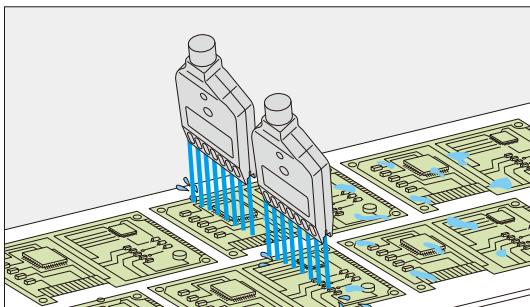
In this catalog, the connection thread size and type are described according to the ISO standard. Threads noted in this catalog are tapered pipe threads unless otherwise specified.

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.

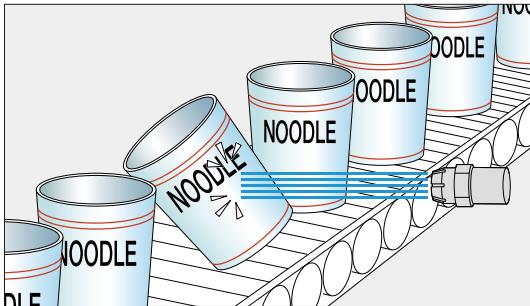
Thread type	ISO standard	Our thread code
Male tapered pipe threads	R1/4	1/4M
Female tapered pipe threads	Rc1/4	1/4F

Examples of Air Nozzle Usage

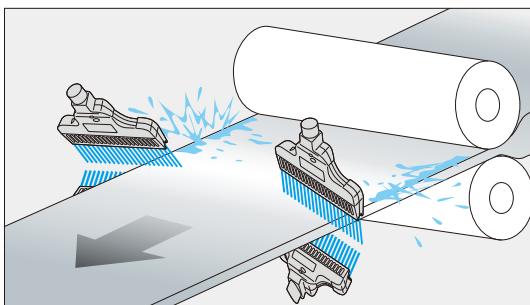
■ Blowing off drying after washing process



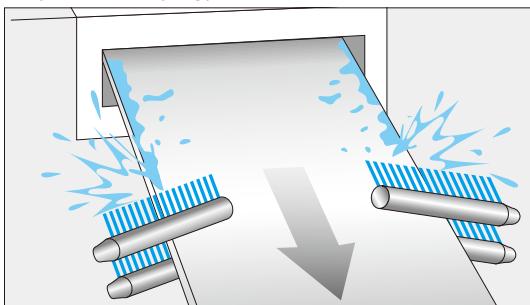
■ Sorting and rejection (blow-off) of defective products



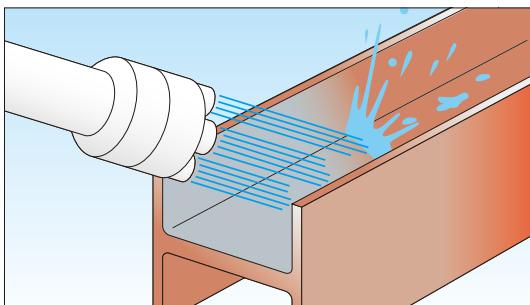
■ Blow-off dust/water under high temperatures



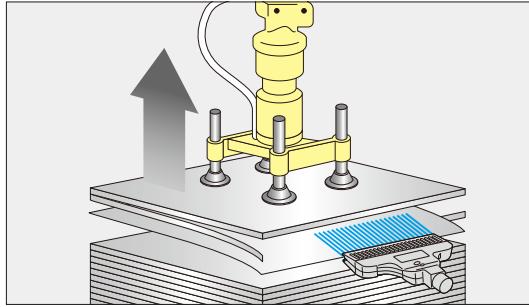
■ Edge wiper for steel surface treatment (Blow-off drying)



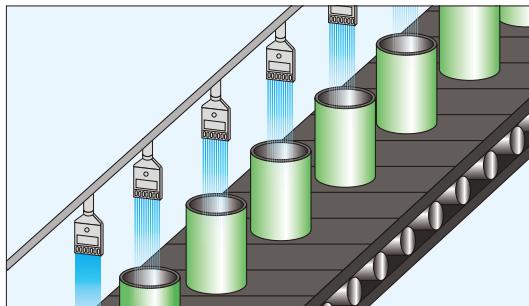
■ Blow-off water from shaped steel



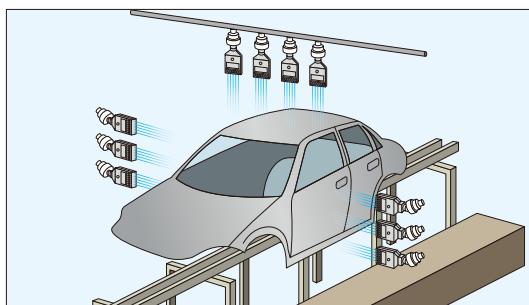
■ Prevent double feeding of steel plates during vacuum conveying



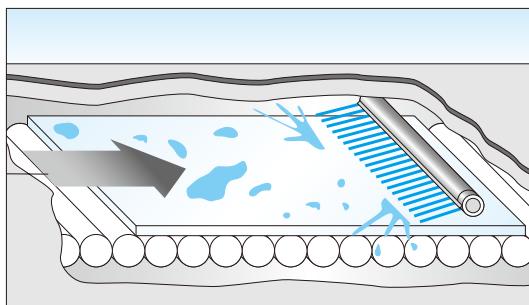
■ Blow-off drying of cans after cleaning, air rinsing of cans



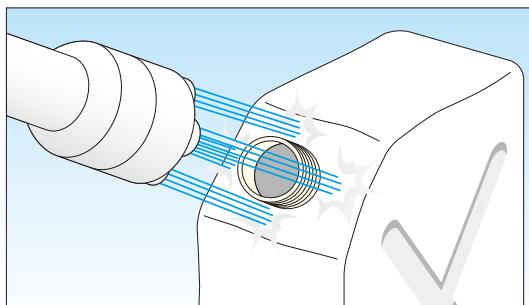
■ Blow-off dust before paint/coating process



■ Installation in tight places or space-restricted areas



■ Pinpoint cooling of molded plastic products



IKEUCHI Air Nozzle Lineup



Type	Flat Jet				
Page	pp. 11–12	pp. 13–15	pp. 16–17	pp. 18–19	pp. 20–21
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
Weight	4 g	9 g	38 g	30 g	140 g
Max. operating pressure	0.7 MPa	0.7 MPa	1.0 MPa	0.7 MPa	1.0 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]
Noise level at 0.3 MPa ¹	76 dBA	79 dBA	60–82 dBA	77 dBA	82 dBA
Air consumption at 0.3 MPa ¹	225 NL/min	440 NL/min	110–630 NL/min	440 NL/min	730 NL/min
Features	<ul style="list-style-type: none"> • Compact • Low noise level • Uniform impact distribution 			<ul style="list-style-type: none"> • Low noise level • Uniform impact distribution 	

Type	Round Jet				
Page	pp. 31–33	pp. 34–35	pp. 36–37	pp. 63–64	
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
Weight	2 g	7 g or 12 g	800 g	7.5 g or 19 g	8 g
Max. operating pressure	0.7 MPa	1.0 MPa	1.0 MPa	1.0 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]
Noise level at 0.3 MPa ¹	78 dBA	71–87 dBA	83–91 dBA	66–84 dBA	86 dBA
Air consumption at 0.3 MPa ¹	245 NL/min	157–627 NL/min	1,151–2,632 NL/min	35–215 NL/min	478 NL/min
Features	<ul style="list-style-type: none"> • Low noise level • Powerful, high impact air stream 		<ul style="list-style-type: none"> • Low noise level • High volume and powerful air flow 	<ul style="list-style-type: none"> • Targeted, high impact solid air stream 	<ul style="list-style-type: none"> • Low noise level • Powerful, high impact air stream • Minimal air use

Type	Full Cone Jet		Air Amplifier	Air Blow Gun
Page	pp. 47–49		pp. 50–55	pp. 56–57
Nozzle series	JAN		EJA	TF-GUN
Product photo				
Air supply	Compressor	Compressor	Compressor	Compressor
Main material	S303	S303	PP	PP & PPS
Weight	13 g	405–2,370 g	94 g	97 g or 121 g
Max. operating pressure	1.0 MPa	0.6 MPa	0.7 MPa	0.7 MPa
Max. temperature	400°C [750°F]	*3	50°C [120°F]	50°C ² [120°F]
Noise level at 0.3 MPa	57–82 dBA	83 dBA or less	—	—
Air consumption at 0.3 MPa	49–456 NL/min	150–750 NL/min	225 NL/min ⁵	200–350 NL/min ⁵
Features	• Full cone air blow for wide coverage	• Air amplifying nozzle • Applicable for powder transfer	• Air duster gun with TAIFUJet nozzle	

Scan to watch our video:
"Introduction to All Our Air Nozzles".

Flat Jet						
pp. 22–24	pp. 58–59		pp. 25–30		pp. 60–62	
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	—
1.0 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]	1.0 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	2,940–14,100 NL/min	2,940–14,100 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. 41–43		pp. 44–46	pp. 68–70	pp. 38–40	pp. 65–67	
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	
*3	*3	*3	100°C [210°F]	*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		

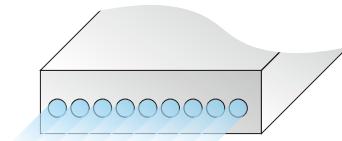
¹The blower type (nozzle using blower air) was measured at 30 kPa. ²Heat resistance depends on the pressure applied. ³Inquire with us.

⁴Value for slit length of 800 mm. ⁵When air flow regulator valve is set to Max.

Type of Nozzle Orifices

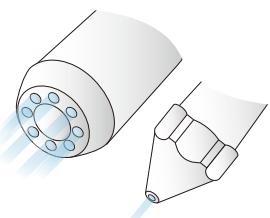
Flat Jet

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.



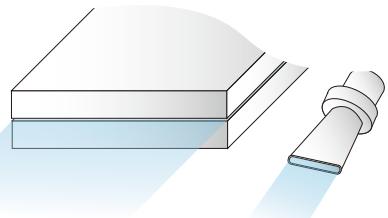
Round Jet

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.



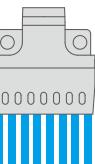
24 mm wide compact flat jet

TAIFUJet
TF-F24

Compressed air



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

Weight
4 g

Max. operating pressure
0.7 MPa (100 psi)

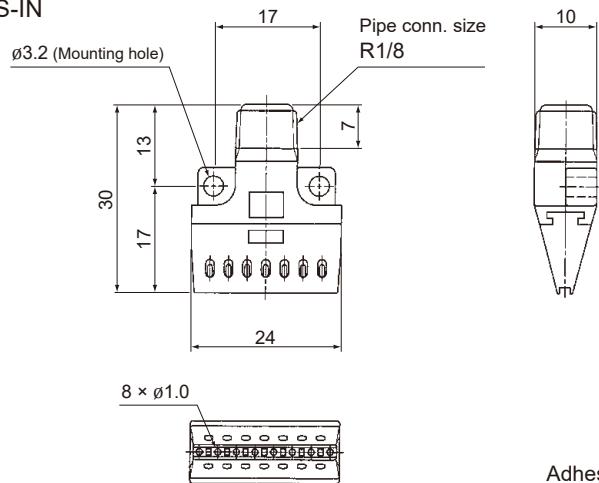
Max. temperature
120°C (240°F)

Noise level
76 dBA at 0.3 MPa

Air consumption
225 L/min, Normal at 0.3 MPa

Drawing

■ 1/8M TF-F 24-8-010 PPS-IN

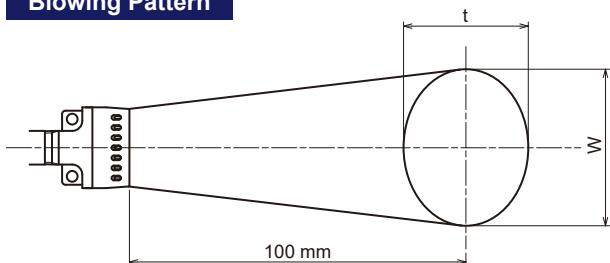


3D CAD models

Unit: mm

Adhesive is used for assembly of some parts.

Blowing Pattern



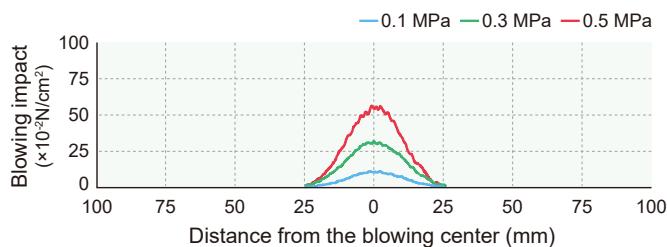
Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	35	45
0.3	40	45
0.5	40	45

Noise Level at a distance of 1,000 mm

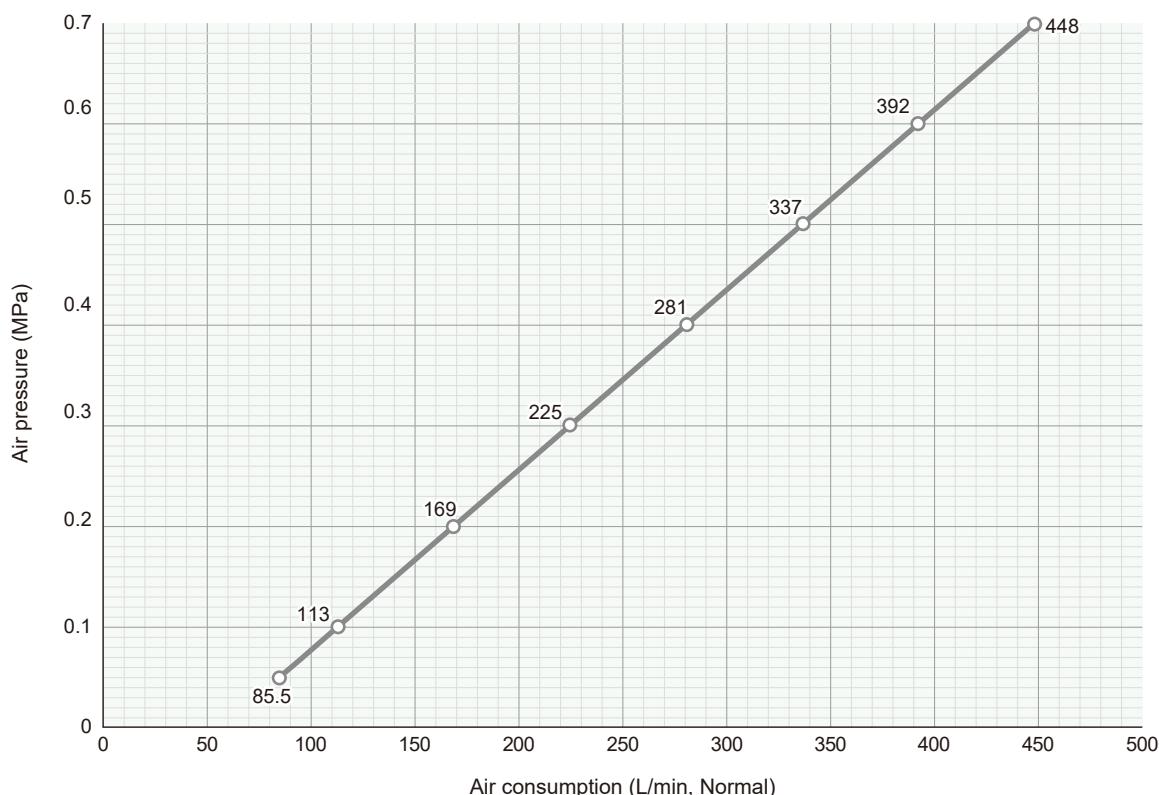
Background noise: 46 dBA

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

Blowing Impact Distribution at 100 mm from the nozzle orifice



Air Consumption



HOW TO ORDER

Please use this product code for inquiries and orders.

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

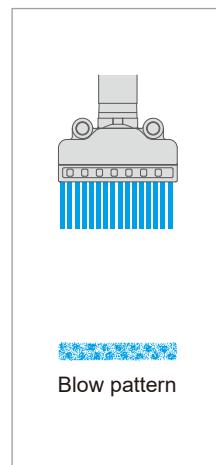
42 mm wide flat jet, short version

TAIFUJet
TF-FS42

Compressed air



For compressors



- 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 with orifice diameters of 0.5, 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

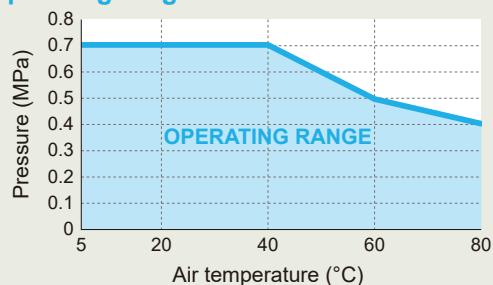
Max. operating pressure
Plastic¹: 0.7 MPa (100 psi), Metal: 1.0 MPa (140 psi)

Max. temperature
Plastic¹: 80°C (170°F), Metal: 400°C (750°F)

Noise level (at 0.3 MPa)
Plastic: 79 dBA, Metal: 60–82 dBA

Air consumption (at 0.3 MPa)
Plastic: 440 L/min, Normal
Metal: 110–630 L/min, Normal

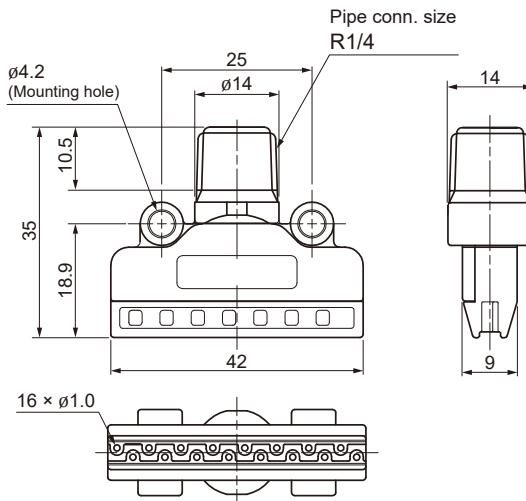
Operating range of PPS model



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

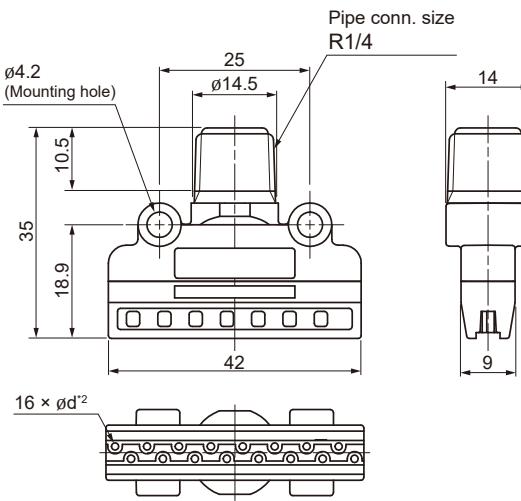


Metal

■ 1/4M TF-FS 42-16-005 S316L-IN
■ 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



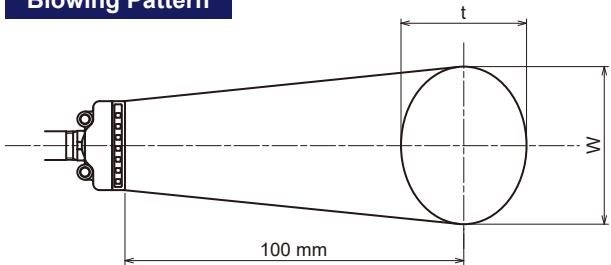
3D CAD models



²Ød = Orifice Diameter (OD): Ø0.5, Ø0.8, Ø1.0, or Ø1.2 mm

Unit: 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)
$\varnothing 1.0$	0.1	68
	0.3	79
	0.5	85

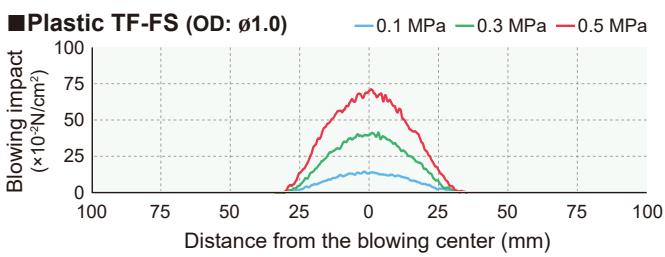
Metal		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
$\varnothing 0.5$	0.1	49
	0.3	60
	0.5	66

Metal		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
$\varnothing 0.8$	0.1	62
	0.3	73
	0.5	79

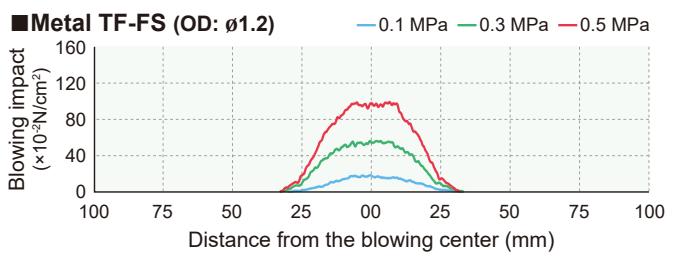
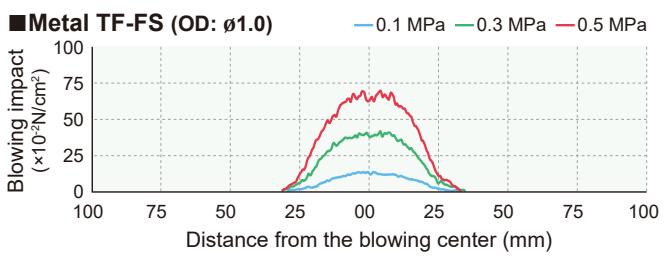
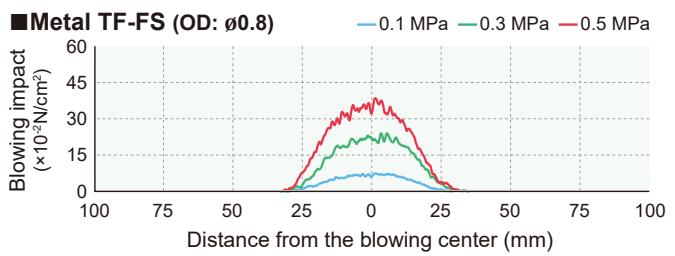
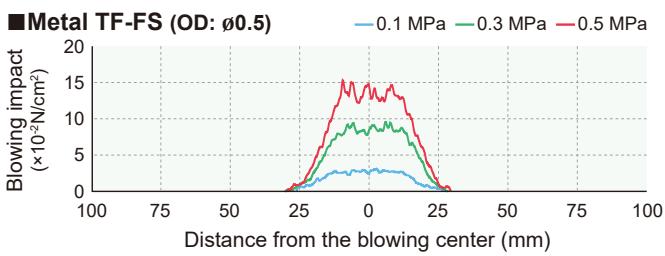
Metal		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
$\varnothing 1.0$	0.1	68
	0.3	78
	0.5	84

Metal		
Orifice diameter	Pressure (MPa)	Noise level (dBA)
$\varnothing 1.2$	0.1	72
	0.3	82
	0.5	88

Blowing Impact Distribution at 100 mm from the nozzle orifice

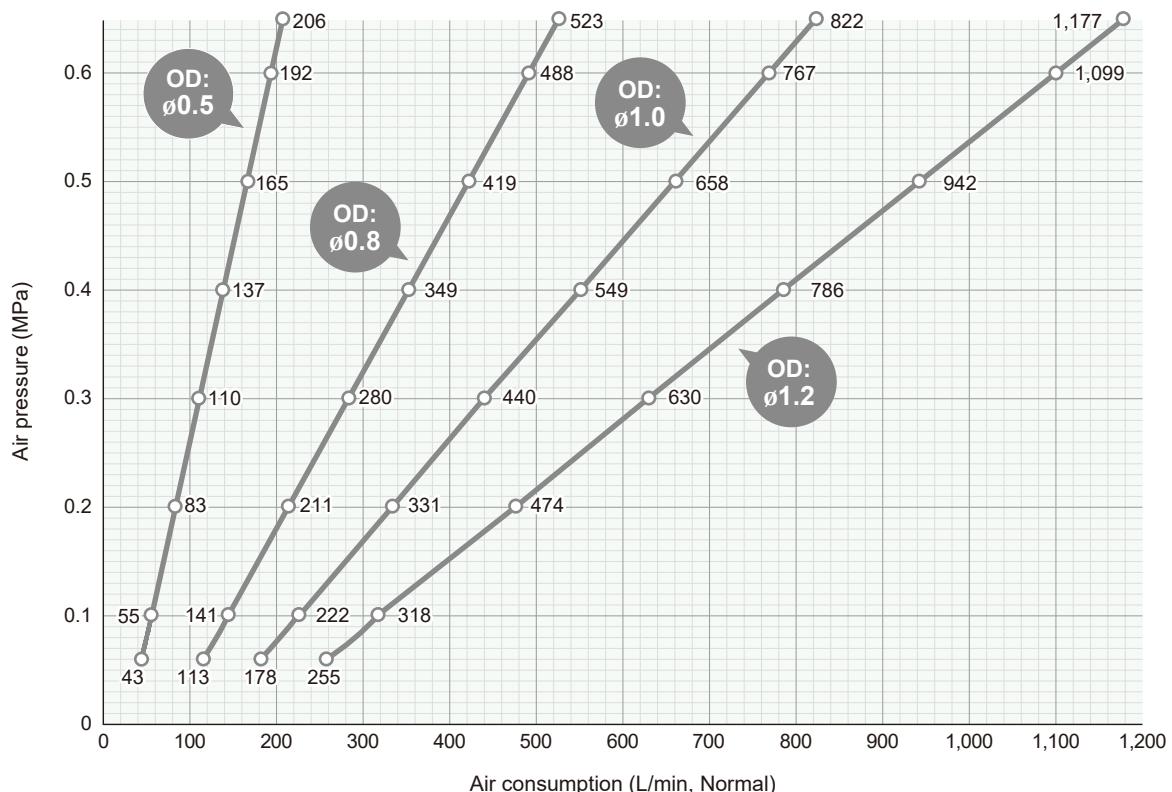


(OD = Orifice Diameter)



Air Consumption

Orifice diameter (OD) $\phi 1.0$ is available in both plastic and metal. $\phi 0.5$, $\phi 0.8$ and $\phi 1.2$ are only available in metal.

**HOW TO ORDER**

To inquire about or order a specific nozzle please refer to 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

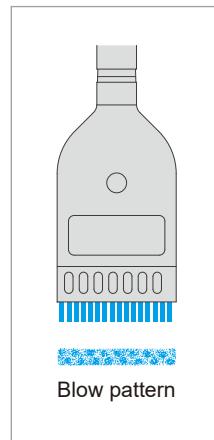
Thread Type
 (PT)
 (NPT)

Orifice Diameter Code

005 ($\phi 0.5$) 008 ($\phi 0.8$)
 010 ($\phi 1.0$) 012 ($\phi 1.2$)



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.



Material
PPS



Weight
30 g



Max. operating pressure*
0.7 MPa (100 psi)



Max. temperature*
80°C (170°F)

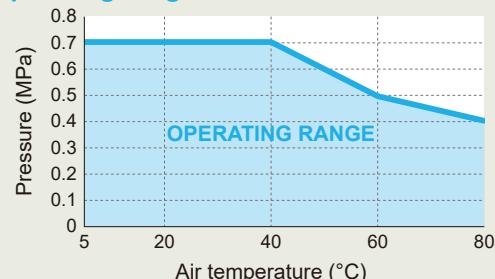


Noise level (at 0.3 MPa)
77 dBA



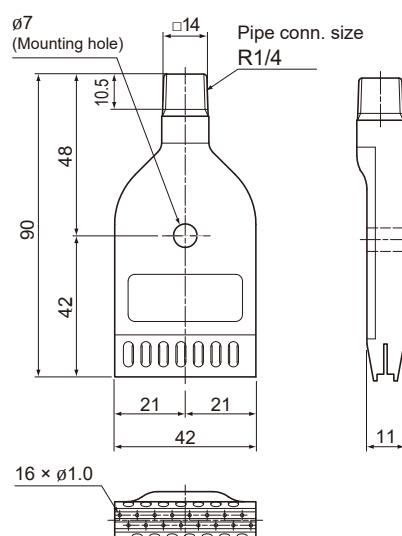
Air consumption (at 0.3 MPa)
440 L/min, Normal

Operating range



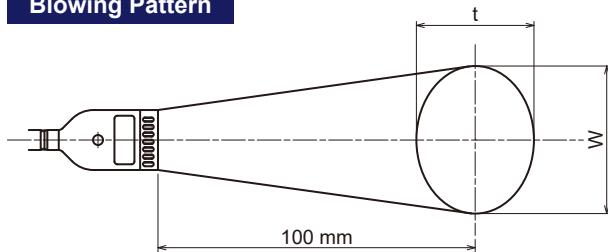
*Heat resistance varies depending on the pressure applied.
Blue colored area indicates the operating range.

Drawing



3D CAD models

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

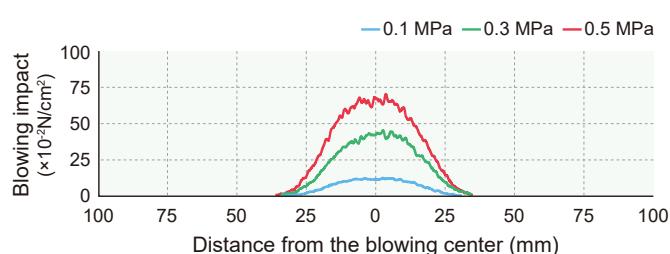
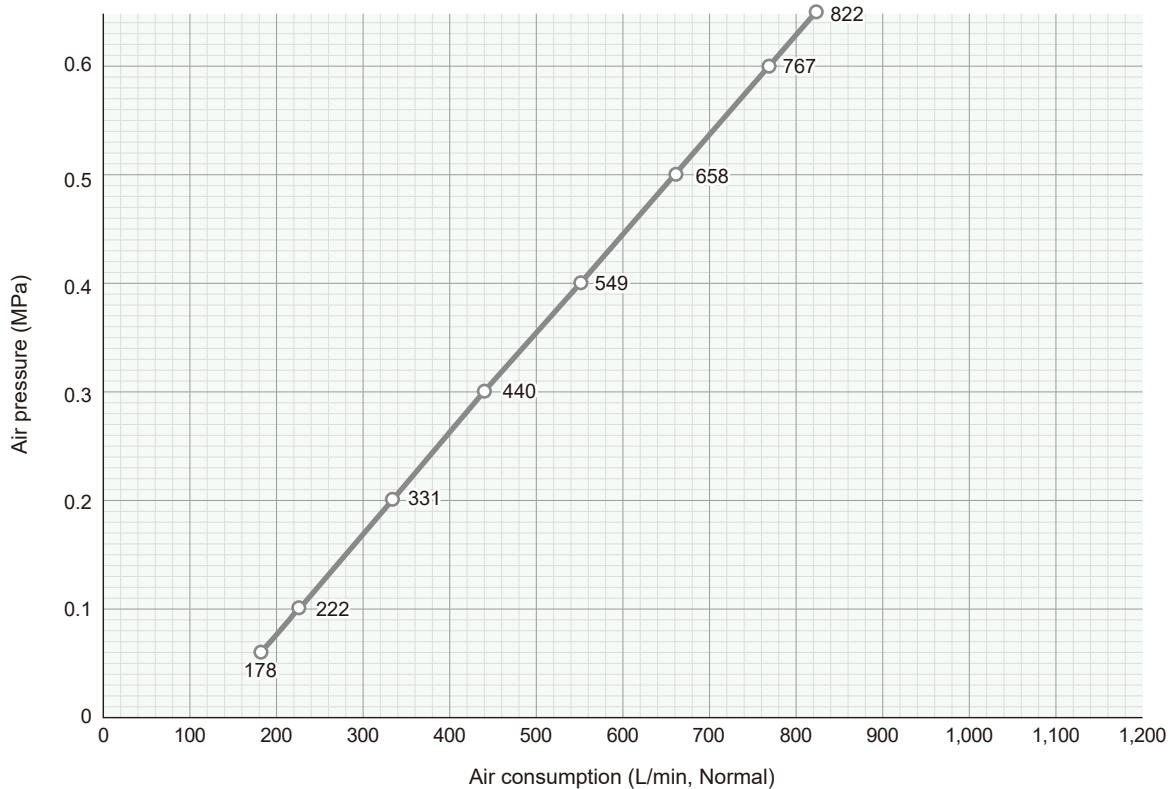
Noise Level at a distance of 1,000 mm

Background noise: 46 dBA

Pressure (MPa)	Noise level (dBA)
0.1	64
0.3	77
0.5	84

Blowing Impact Distribution

at 100 mm from the nozzle orifice

**Air Consumption****HOW TO ORDER**

Please use this product code for inquiries and orders.

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

Thread Type

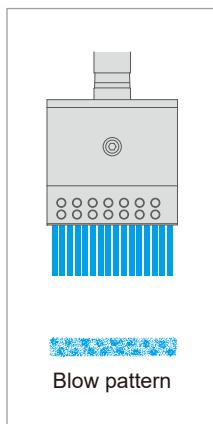
- (PT)
- (NPT)

50 mm wide flat jet

TAIFUJet
TF-F50



For compressors

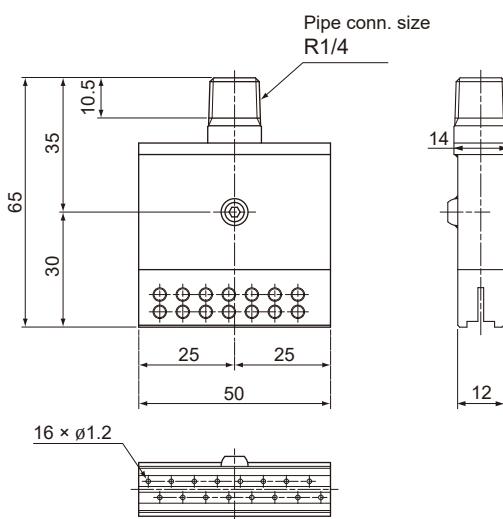


- Air booster nozzle suitable for applications where flat blowing is required.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Compact and wider flat air nozzle, 50 mm wide and 65 mm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

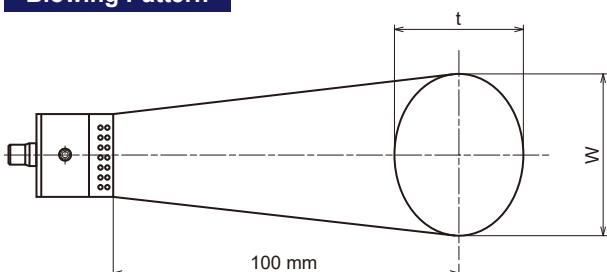
Material S304	Max. temperature 400°C (750°F)
Weight 140 g	Noise level 82 dBA at 0.3 MPa
Max. operating pressure 1.0 MPa (140 psi)	Air consumption 730 L/min, Normal at 0.3 MPa

Drawing

■ 1/4M TF-F 50-16-012 S304



Blowing Pattern

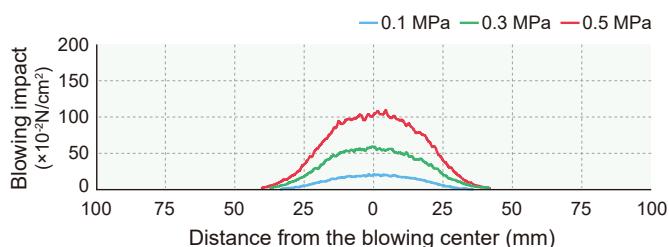
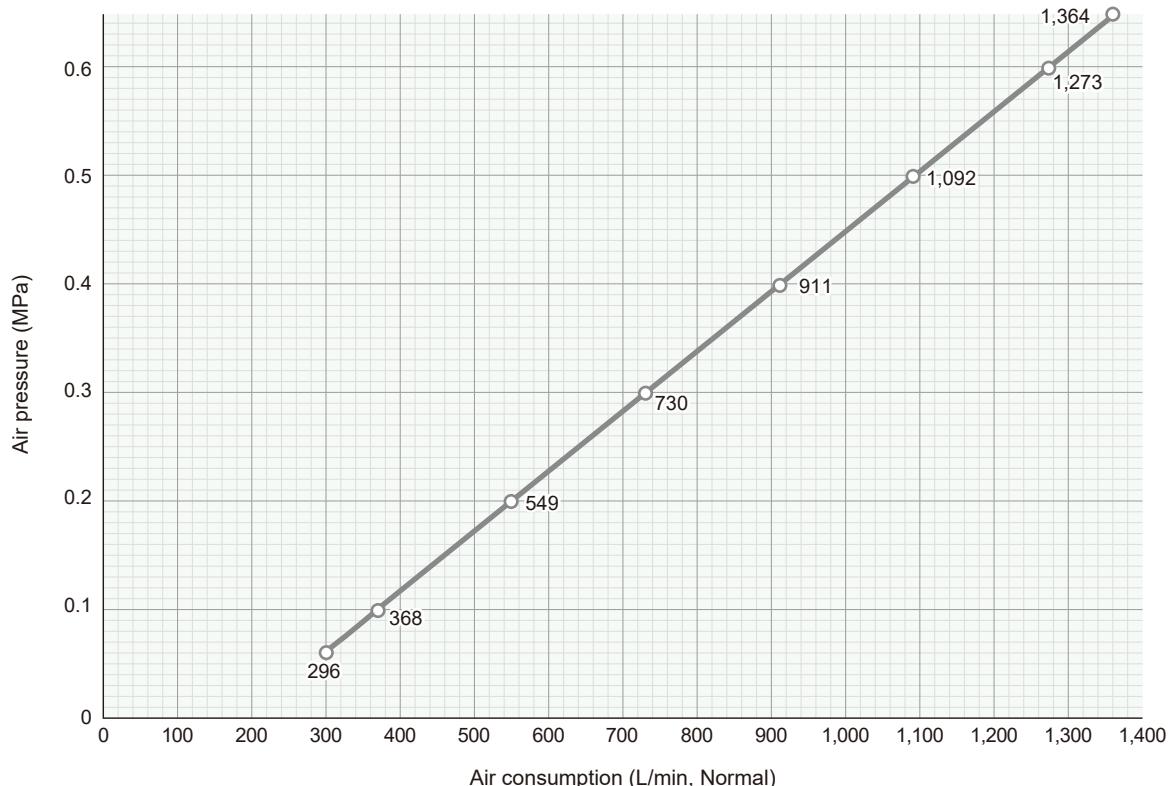


Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	60	55
0.3	65	55
0.5	65	55

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 from the nozzle orifice**Air Consumption****HOW TO ORDER**

Please use this product code for inquiries and orders.

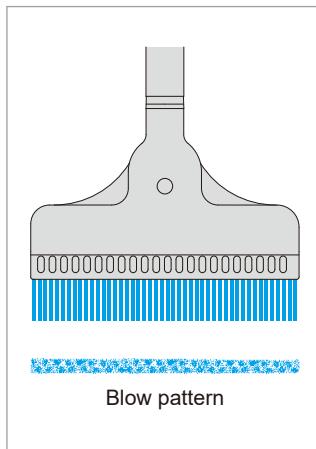
1/4M TF-F 50-16-012 S304

121 mm wide flat jet

TAIFUJet
TF-F121



For compressors



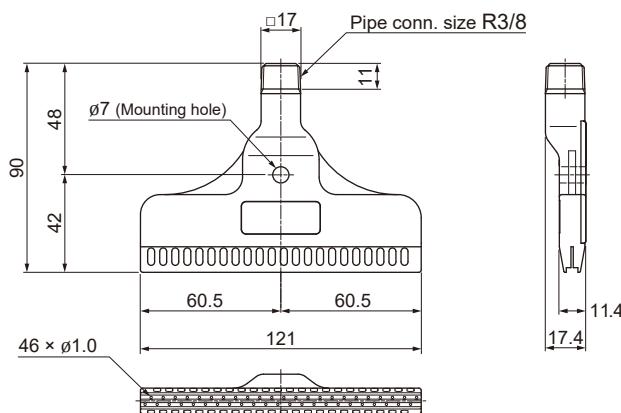
- Air booster nozzle suitable for applications where a wide laminar blowing is required.
- The unique design creates a uniform and efficient air flow distribution.
- It produces a powerful, high impact air stream, while saving energy.
- Low noise level.
- Wide air nozzle (121 mm wide, 90 mm long) generates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

Material PPS	Noise level 82 dBA at 0.3 MPa	Operating range
Weight 62 g	Air consumption 1,250 L/min, Normal at 0.3 MPa	
Max. operating pressure* 0.7 MPa (100 psi)		
Max. temperature* 80°C (170°F)		

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

Drawing

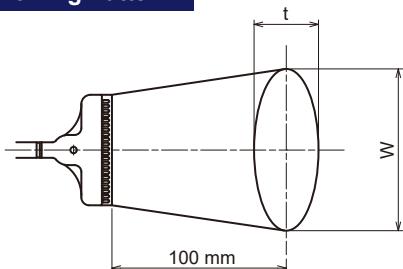
■3/8M TF-F 121-46-010 PPS



3D CAD models

Unit: mm

Blowing Pattern

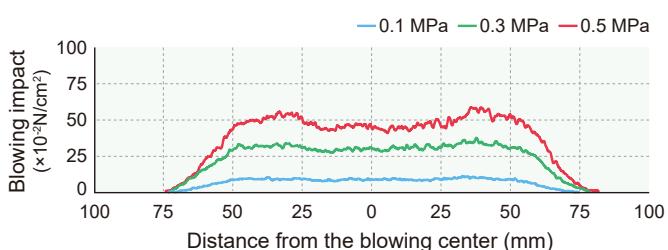
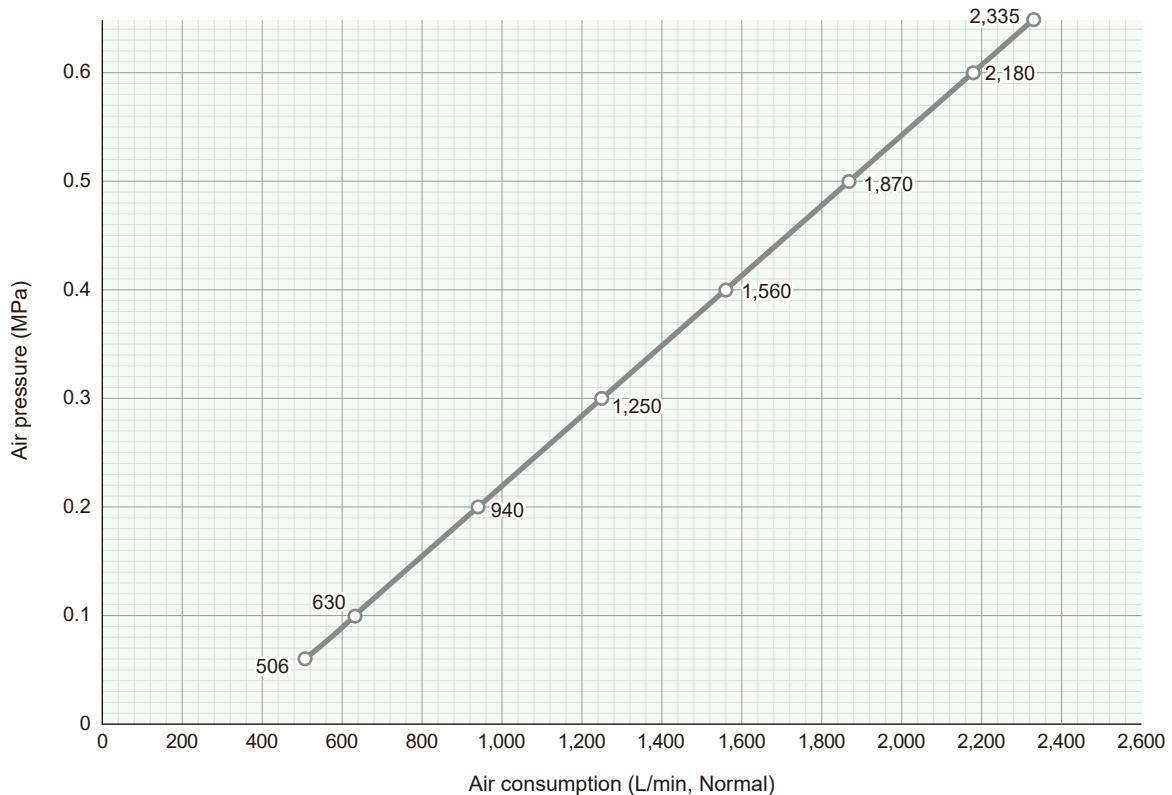


Air pressure (MPa)	Blowing width W (mm)	Thickness t (mm)
0.1	130	50
0.3	135	50
0.5	135	50

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 from the nozzle orifice**Air Consumption****HOW TO ORDER**

Please use this product code for inquiries and orders.

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

Thread Type

- (PT)
- (NPT)

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 14-014 (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

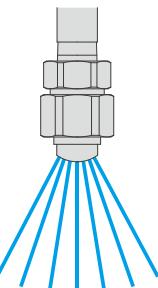


19 orifices

HF 19-010

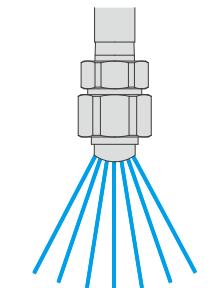


7 orifices



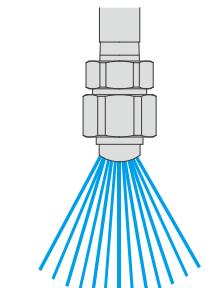
Blow pattern

14 orifices



Blow pattern

19 orifices



Blow pattern



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



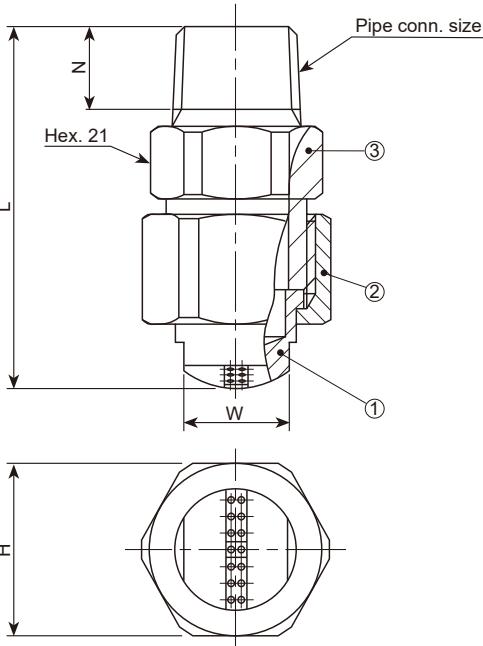
Noise level
78–84 dBA at 0.3 MPa



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****Complete Assembly**

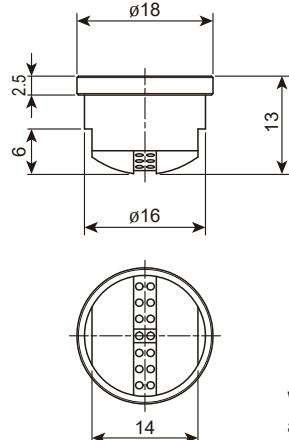
1. Nozzle tip 2. Cap 3. Adaptor

Unit: mm

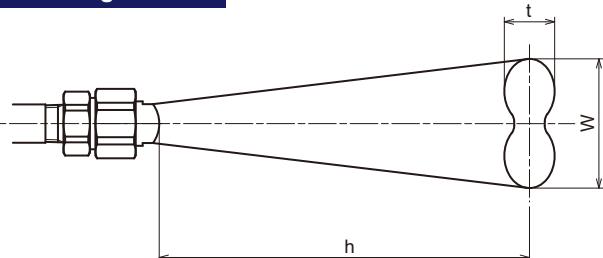
HF 7-012 and HF 19-010 have the same outer dimensions as HF 14-010 (but differ in the number of orifices as shown in the images on page 22.)



3D CAD models

Nozzle TipWeight of nozzle tip:
approx. 11 g**■ Complete Assembly**

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

Blowing Pattern**■ 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 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 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

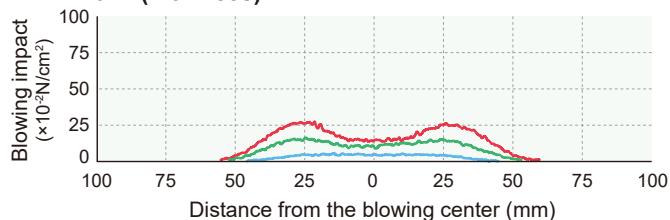
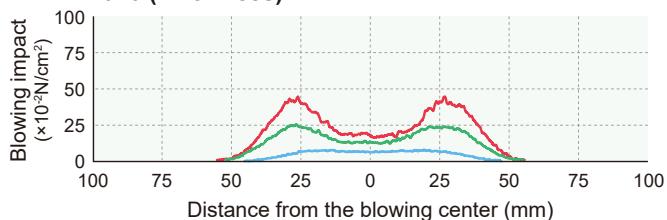
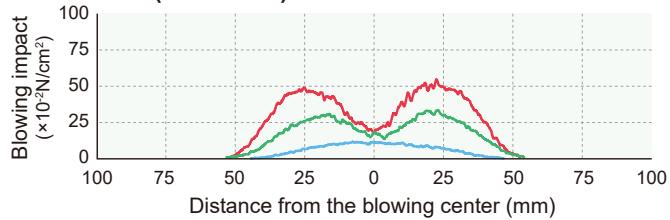
Pressure (MPa)	Noise level (dBA)
0.1	66
0.3	78
0.5	83

■ HF 14-010

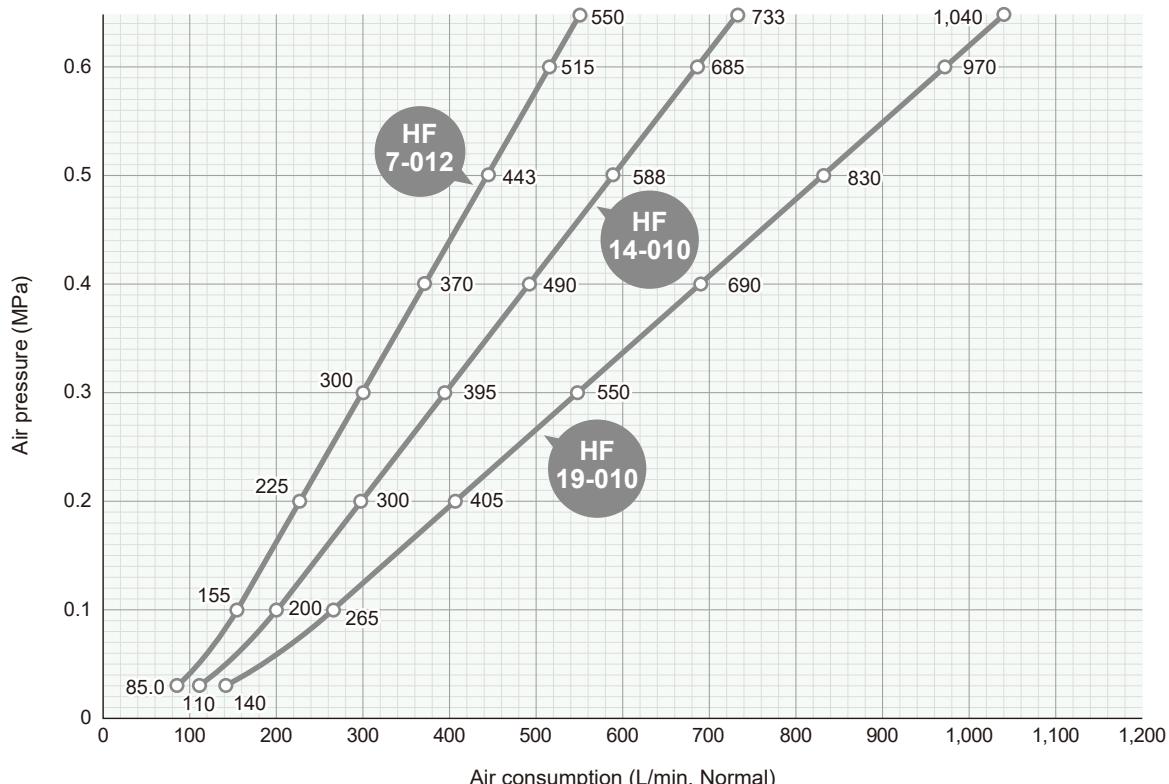
Pressure (MPa)	Noise level (dBA)
0.1	69
0.3	81
0.5	88

■ HF 19-010

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

Blowing Impact Distribution at 100 mm from the nozzle orifice**HF 7-012 (7 orifices)****HF 14-010 (14 orifices)****HF 19-010 (19 orifices)**

— 0.5 MPa
— 0.3 MPa
— 0.1 MPa

Air Consumption**HOW TO ORDER**

To inquire about or order a specific nozzle please refer to this coding system.
See page 23 for selection.

Complete Assembly

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

1/4M HF 7-012

S303

Pipe Conn. Size*

- 1/4M
- 3/8M

Orifice Code

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

Nozzle Tip

<Example> HF 7-012 Nozzle Tip S303

HF 7-012 Nozzle Tip S303

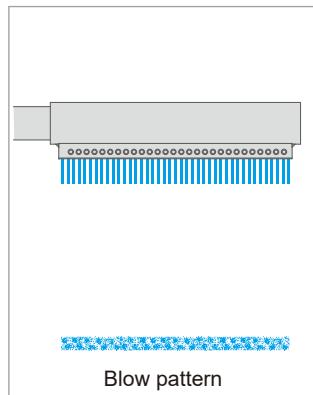
Orifice Code

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

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



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

Weight
360–13,800 g

Max. operating pressure
1.0 MPa (140 psi)

Max. temperature
400°C (750°F)

Noise level
84 dBA or more at 0.3 MPa

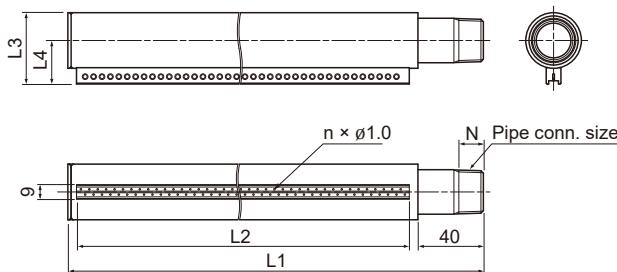
Air consumption
1,150–15,100 L/min, Normal at 0.3 MPa



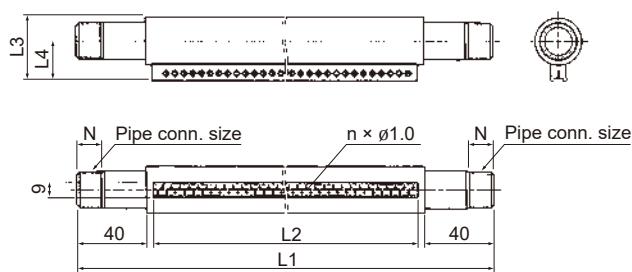
3D CAD models

Drawing

■ Single inlet version (Connection at one end)



■ Dual inlet version (Connections at both ends)



■ Dimensions and weight

Orifice code	Blowing width (mm)	Pipe conn. size	Number of orifices [n]	Outer dimensions (mm)					Weight (g)
				L1	L2	L3	L4	N	
100- 40-010	100		40	156	106	37	23	14	360
150- 58-010	150		58	203	152	37	23	14	500
200- 78-010	200	R1/2	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	557	507	44	27	15	2,000
600-234-010	600	R3/4	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	856	805	52	31	18	4,600
900-352-010	900	R1	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	R1½	546	1,457	1,407	70	40	20	13,800

■ Dimensions and weight

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

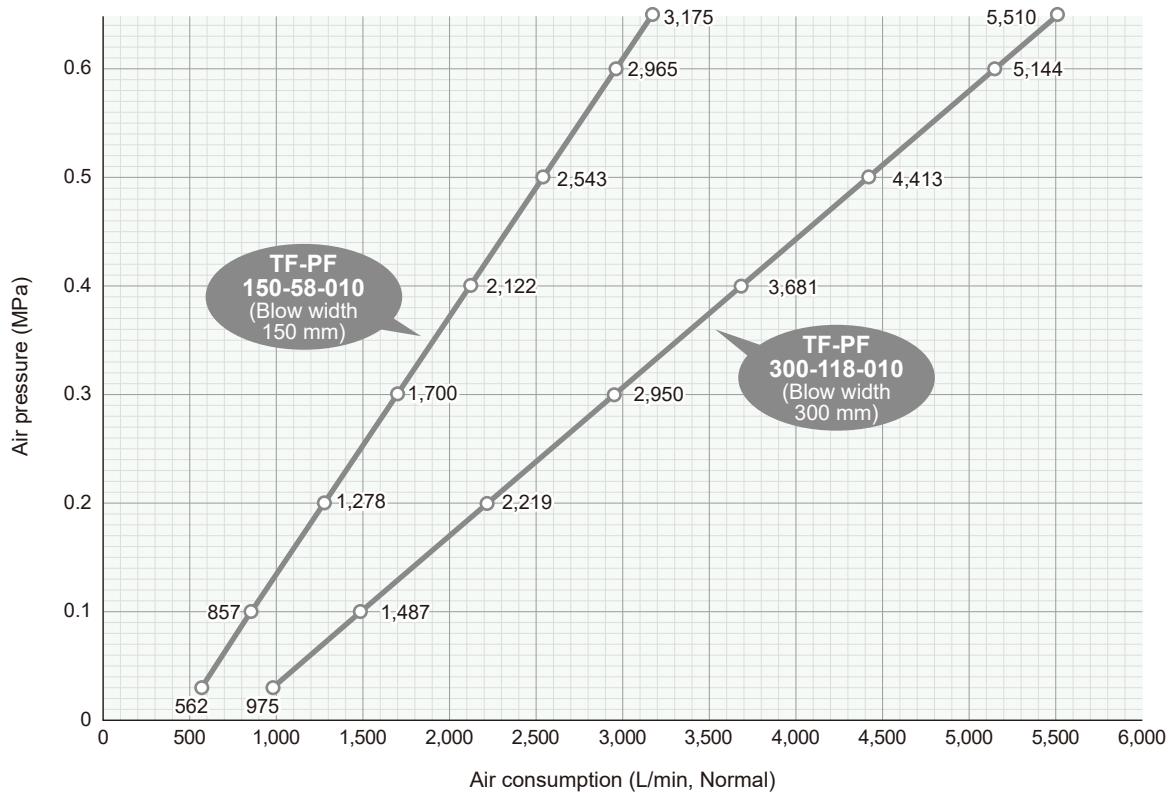
*The number "2-" in front of the connection size indicates the dual inlet version.

L1 = Total length

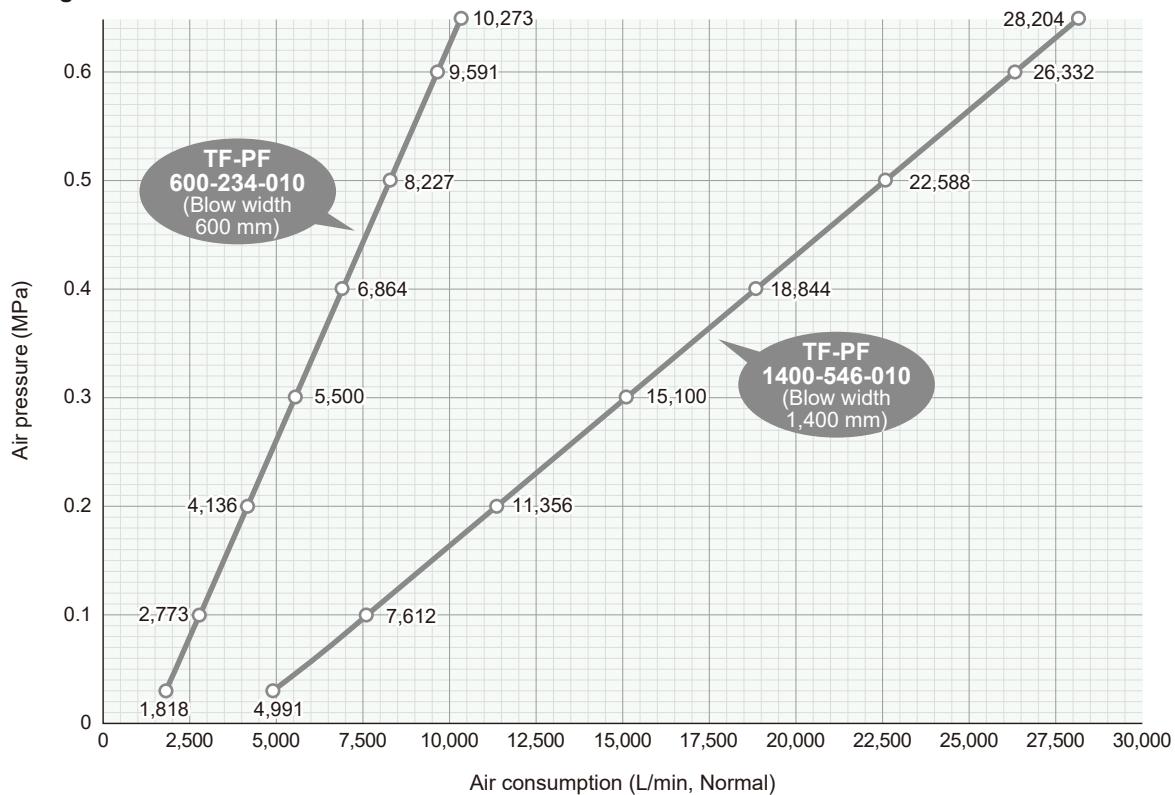
L2 = Length of nozzle tip

Air Consumption

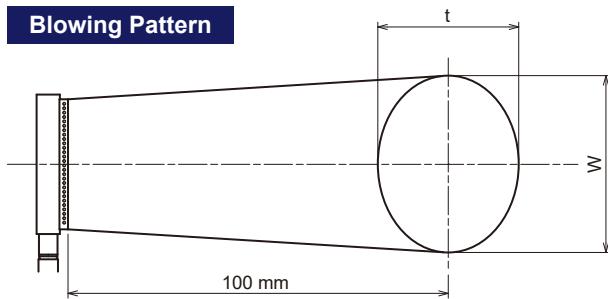
■ Single Inlet Version Contact us for the other models.



■ 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

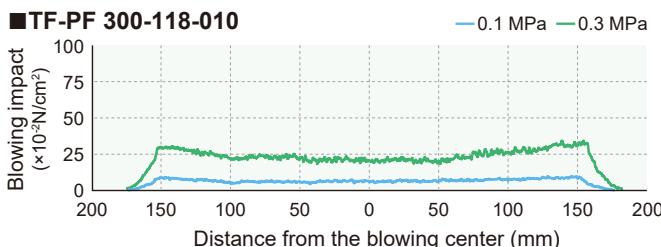
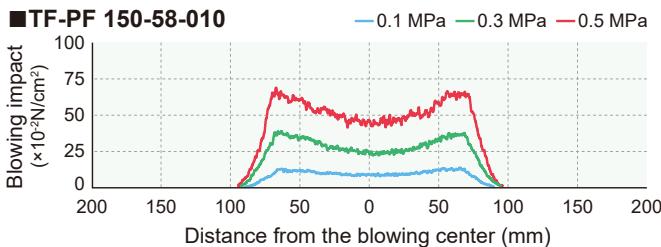
Background noise: 46 dBA

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 from the nozzle orifice



HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system.
See page 25 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), e.g. 3/4M = R3/4.

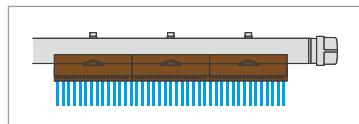
Long flat jet

TAIFUJet
TF-PF w/ detachable nozzle tips



For compressors

Blow pattern



Main material
 PPS & S304

Noise level
86 dBA or more at 0.3 MPa

Weight
950–3,800 g

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

Max. operating pressure*
0.7 MPa (100 psi)

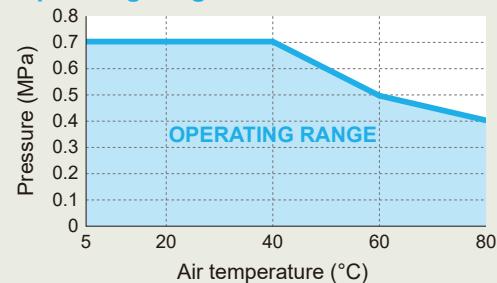
*Heat resistance varies depending on
the pressure applied. Blue colored
area indicates the operating range.

Max. temperature*
80°C (170°F)

- 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.

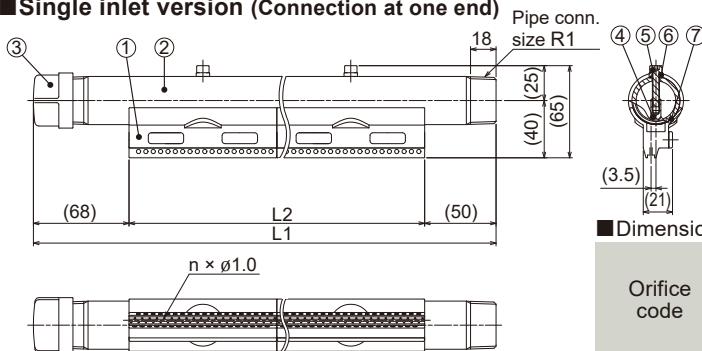
Compressed air

Operating range



Drawing

■ Single inlet version (Connection at one end)



3D CAD models

■ Materials

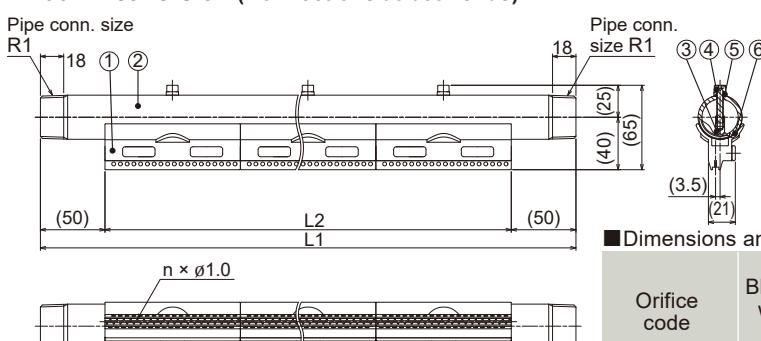
Components	Materials
1 Nozzle tip	PPS
2 Pipe	S304
3 Cap	S304 equiv.
4 Adaptor	S304
5 Bolt	S304 equiv.
6 Seal washer	S304, FKM
7 O-ring	FKM

Pipe OD: Ø34 mm

■ Dimensions and weight

Orifice code	Blowing width (mm)	Number of orifices [n]	Number of nozzle tips	Outer dimensions (mm)		Weight (g)
				Total length L1	Length of nozzle tips L2	
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 equiv.
5 Seal washer	S304, FKM
6 O-ring	FKM

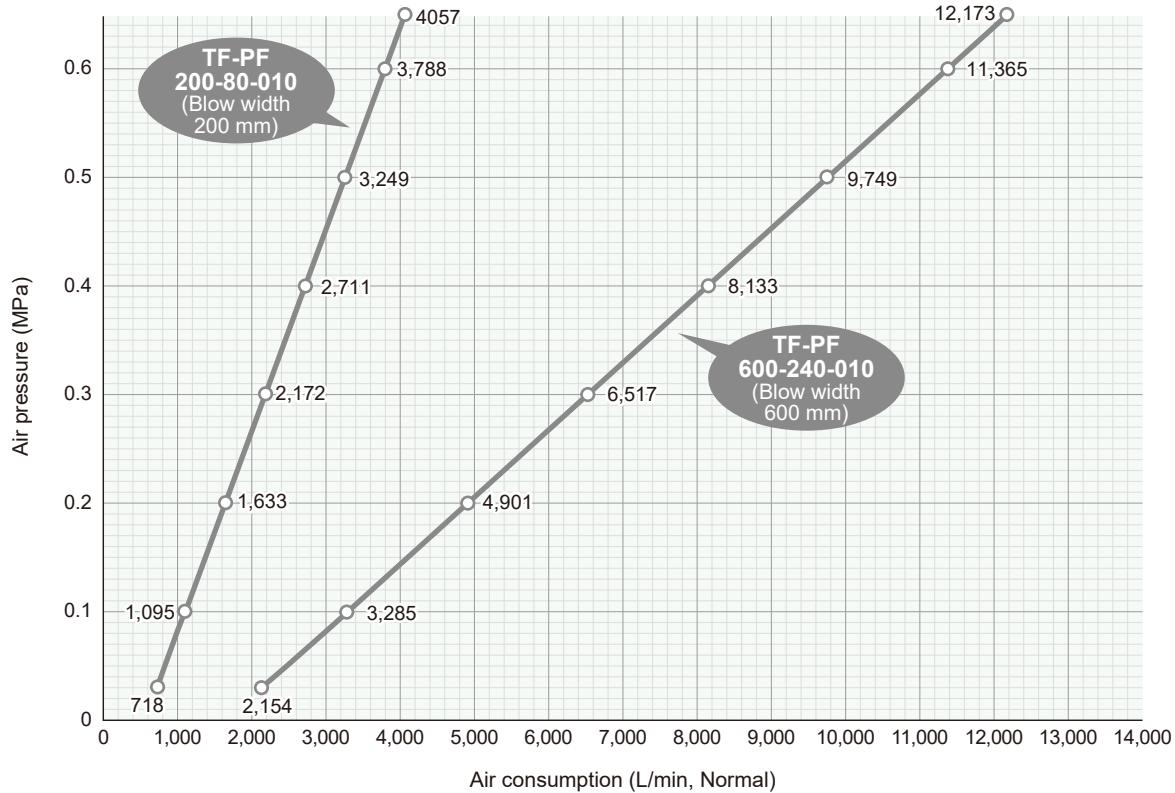
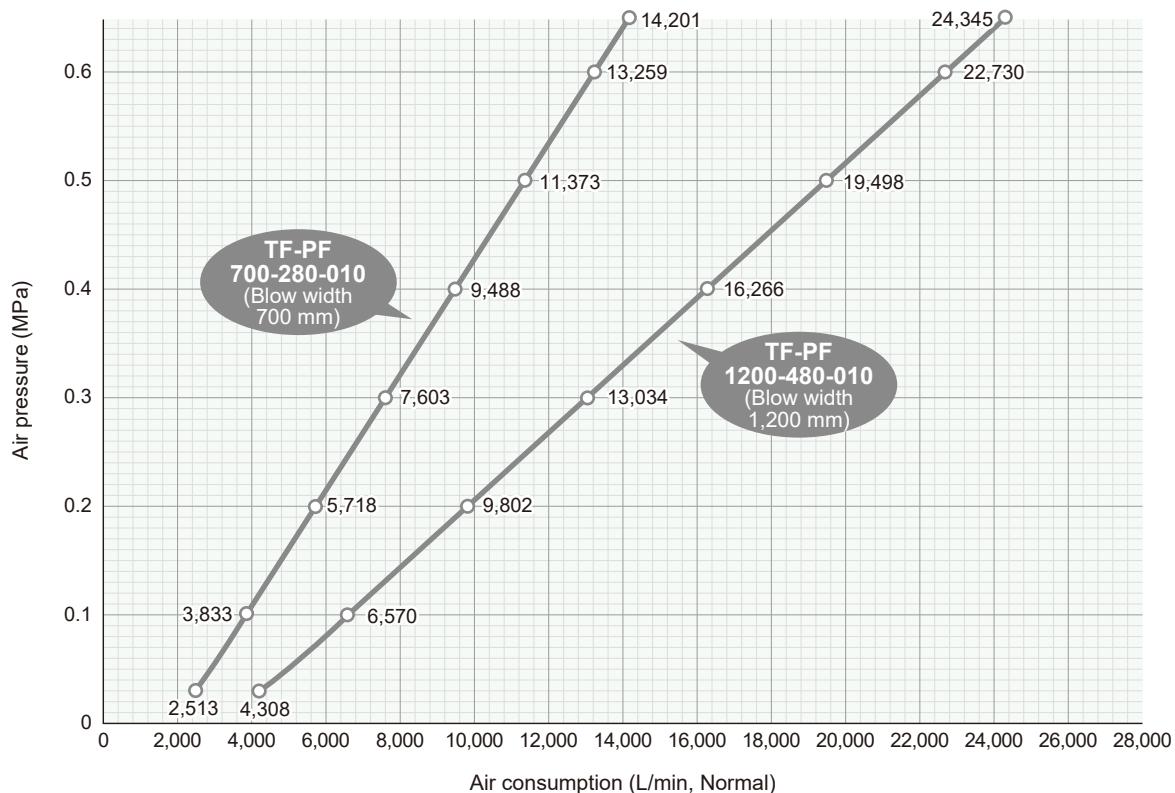
Pipe OD: Ø34 mm

■ Dimensions and weight

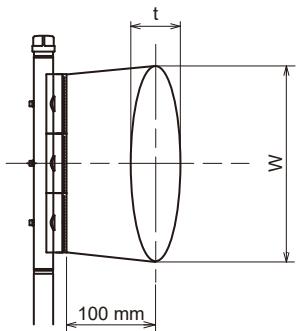
Orifice code	Blowing width (mm)	Number of orifices [n]	Number of nozzle tips	Outer dimensions (mm)		Weight (g)
				Total length L1	Length of nozzle tips L2	
700-280-010	700	280	7	831	731	2,400
800-320-010	800	320	8	936	836	2,700
900-360-010	900	360	9	1,040	940	3,000
1000-400-010	1,000	400	10	1,145	1,045	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:

- Nozzle orifices are designed to be placed off-center from the pipe.
- Contact us if mounting plates are required.
- 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

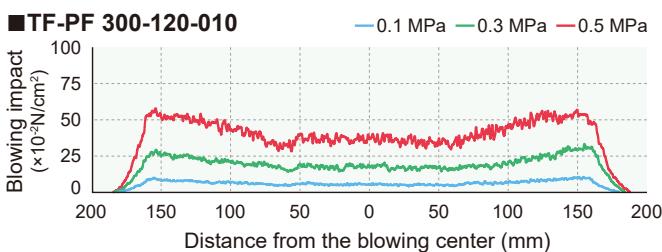
 at a distance of 1,000 mm

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 from the nozzle orifice


HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system.
See page 28 for selection of the orifice code.

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

1M TF-PF 200-80-010

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

PPS + S304

- 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), e.g. 1M = R1.
The number "2-" in front of the connection size indicates the dual inlet version.

Compact round jet

TAIFUJet
TF-R

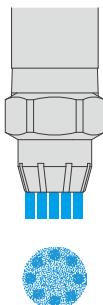
Plastic



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.
- Available in metal with orifice diameters of 0.8, 1.0, 1.2, 1.4, or 1.6 mm.

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



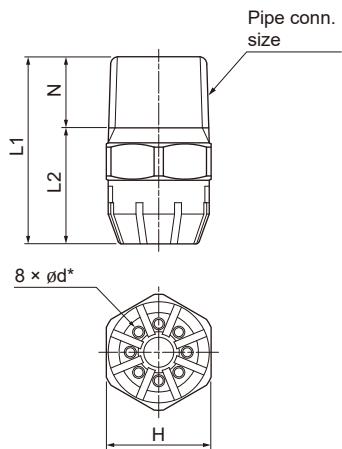
Air consumption (at 0.3 MPa)

Plastic: 245 L/min, Normal
Metal: 157–627 L/min, Normal

Drawing

Metal

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

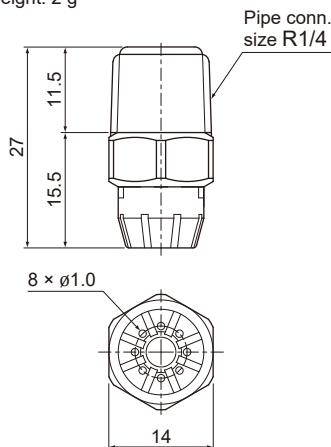


*Ød = Orifice Diameter (OD): Ø0.8, Ø1.0, Ø1.2, Ø1.4, or Ø1.6 mm

Plastic

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

Weight: 2 g



3D CAD models

■ 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

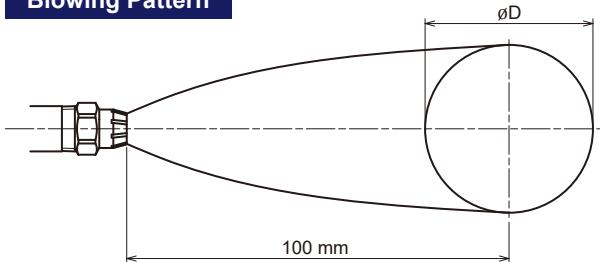
● shows availability of the item.

Orifice diameter Ø1.0 (TF-R 8-010) is available in both plastic and metal. The other models are only available in metal.

■ Dimensions and weight of metal TF-R series

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

Blowing Pattern



Orifice code	Blowing width ϕD (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 $\phi 1.0$) is available in both plastic and metal.

Noise Level

at a distance of 1,000 mm

Background noise: 46 dBA

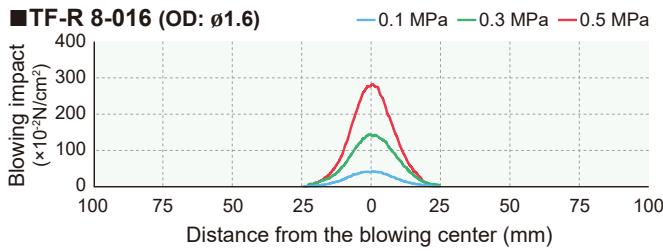
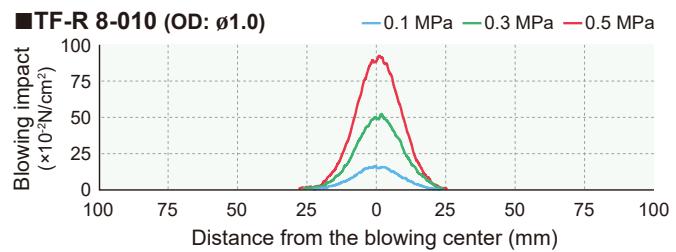
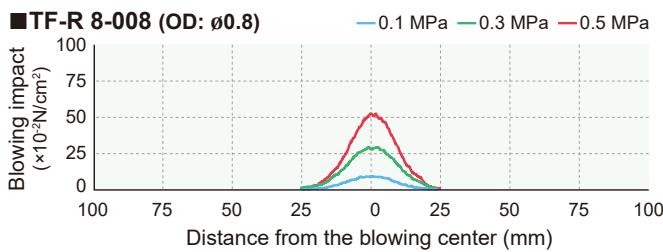
TF-R 8-010 (orifice diameter $\phi 1.0$) is available in both plastic and metal.

Orifice code	Pressure (MPa)	Noise level (dBA)	Orifice code	Pressure (MPa)	Noise level (dBA)	Orifice code	Pressure (MPa)	Noise level (dBA)
8-008	0.1	59	8-010	0.1	65	8-016	0.1	75
	0.3	71		0.3	78		0.3	87
	0.5	77		0.5	83		0.5	93

Blowing Impact Distribution

at 100 mm from the nozzle orifice

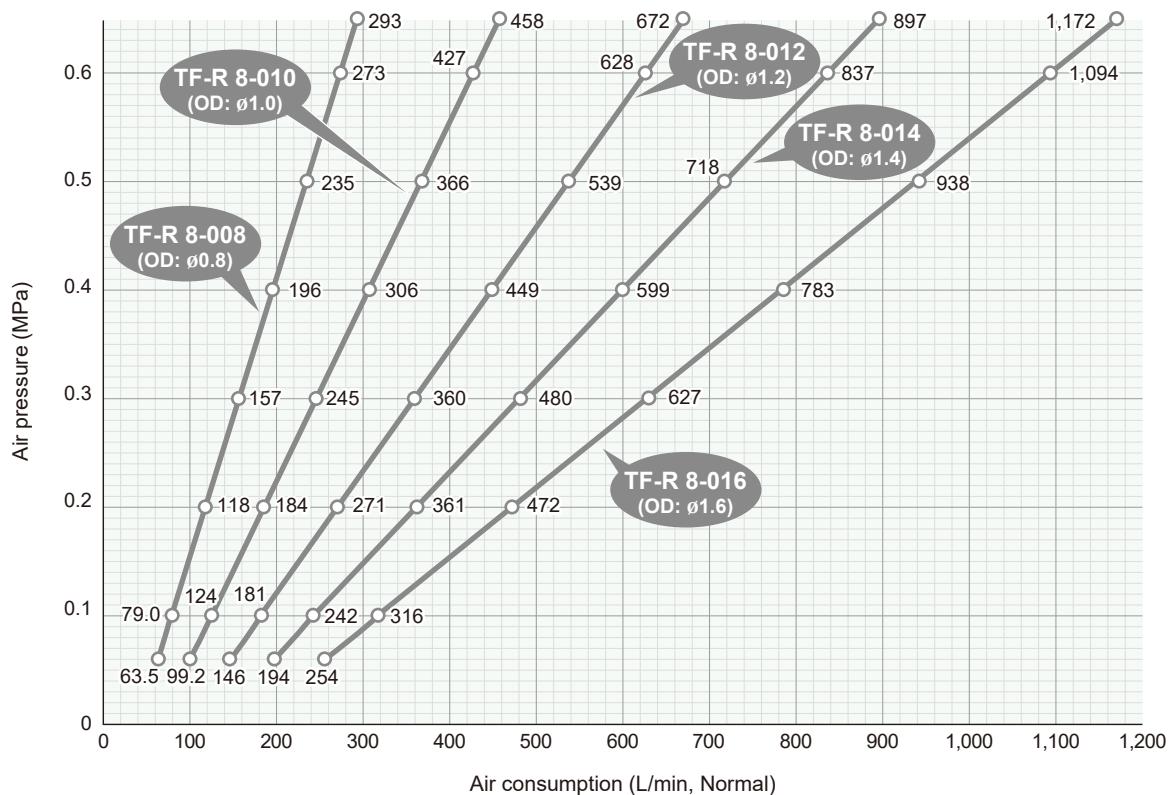
TF-R 8-010 (orifice diameter $\phi 1.0$) is available in both plastic and metal.



(OD = Orifice Diameter)

Air Consumption

TF-R 8-010 (orifice diameter $\varnothing 1.0$) is available in both plastic and metal.

**HOW TO ORDER**

To inquire about or order a specific nozzle please refer to this coding system.
See page 31 for the pipe connection size and orifice code.
Plastic version is only available in R1/4 with orifice diameter $\varnothing 1.0$.

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*

- 1/8M
- 1/4M
- 8-016

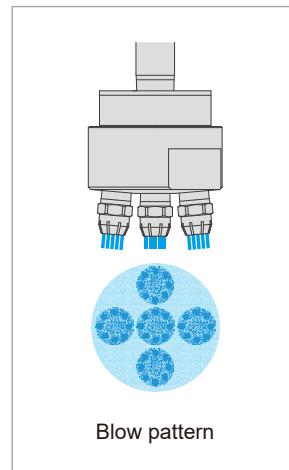
Orifice Code

- 8-008
- 8-010
- 8-012
- 8-014

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



For compressors



- Compact header equipped with 5 nozzles. The nozzles are available in four orifice diameters: 1.0, 1.2, 1.4, or 1.6 mm. A header with 4 or 7 nozzles can also be provided.
- The ergonomic design ensures a highly effective air flow.
- Recommended for applications requiring high volume and powerful air flow.
- Upon request, the header and adaptor are also available in lightweight A6061 aluminum.



Material
Nozzle: S316L equivalent, Header & Adaptor: S303



Weight
800 g



Max. operating pressure
1.0 MPa (140 psi)



Max. temperature
216°C (420°F)



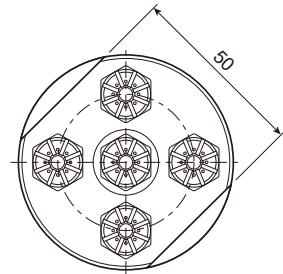
Noise level
83–91 dBA at 0.3 MPa



Air consumption
1,151–2,632 L/min, Normal at 0.3 MPa

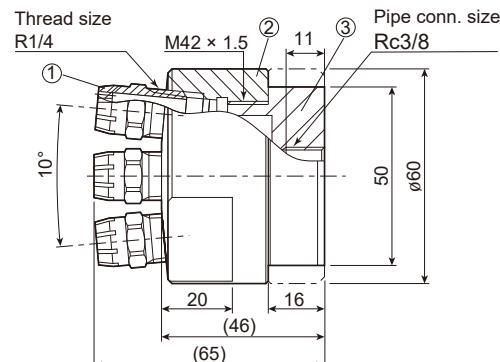
Drawing

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



1. Nozzle* 2. Header 3. Adaptor

*Attached are the TF-R Series air nozzles (p. 31),
available in orifice diameters of 1.0, 1.2, 1.4, and 1.6 mm.

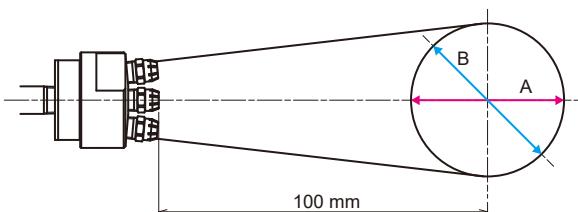


3D CAD models

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

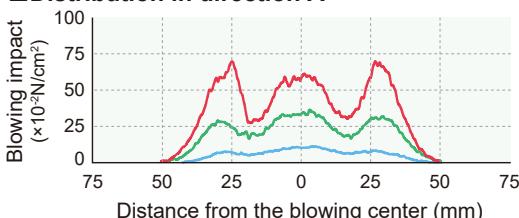
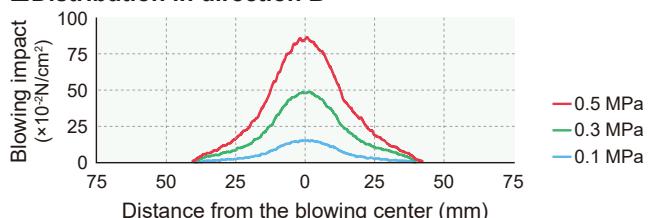
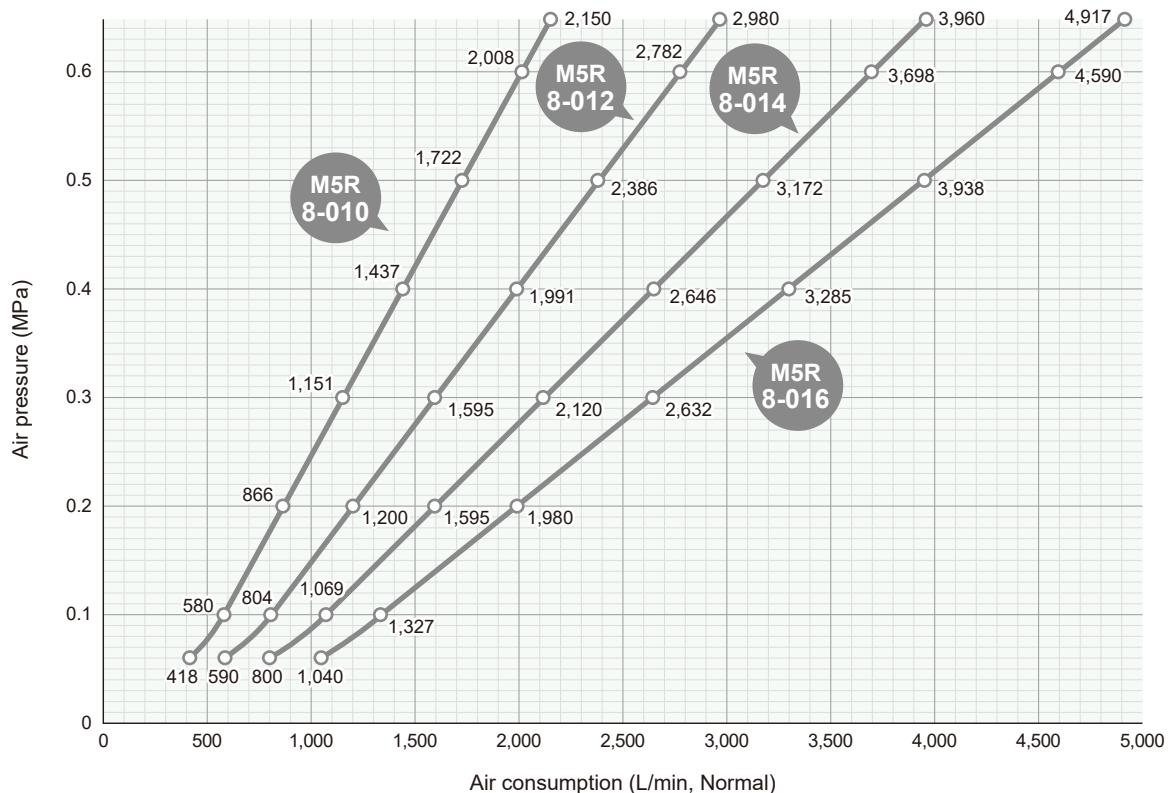
Background noise: 46 dBA

Orifice code	Pressure (MPa)	Noise level (dBA)	Orifice code	Pressure (MPa)	Noise level (dBA)
8-010	0.1	72	8-016	0.1	80
	0.3	83		0.3	91
	0.5	86		0.5	97

Blowing Impact Distribution at 100 mm from the nozzle orifice

Blowing impact distributions below are measured in the directions of A and B indicated in the Blowing Pattern diagram on page 34.

Model: TF-M5R 8-010

Distribution in direction A**Distribution in direction B****Air Consumption****HOW TO ORDER**

To inquire about or order a specific nozzle please refer to this coding system.

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

3/8F TF-M5R 8-010 S303

Orifice Code

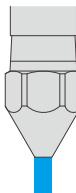
- 8-010 ● 8-012
- 8-014 ● 8-016

This nozzle series is made-to-order.

For details of the orifice code, see page 31.



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 $\varnothing 1.0$ to $\varnothing 2.5$ mm in orifice diameters.
- Cost effective nozzle for use in large quantities.

Material
S303

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

Max. operating pressure
1.0 MPa (140 psi)

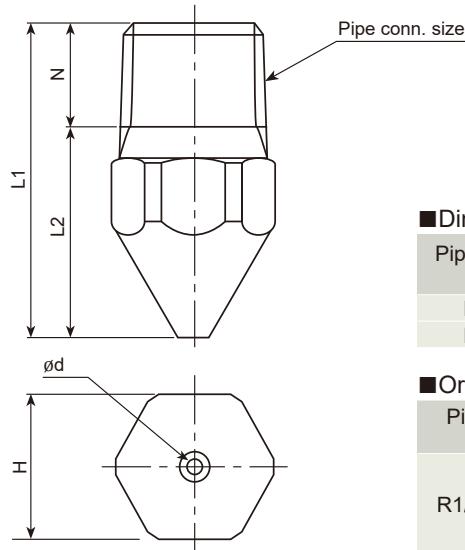
Max. temperature
400°C (750°F)

Noise level
66–84 dBA at 0.3 MPa

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

Drawing

- 1/8M CCP $\varnothing***A$ S303
 - 1/4M CCP $\varnothing***A$ S303
- [*** = 1.0, 1.5, 2.0, or 2.5]



3D CAD models

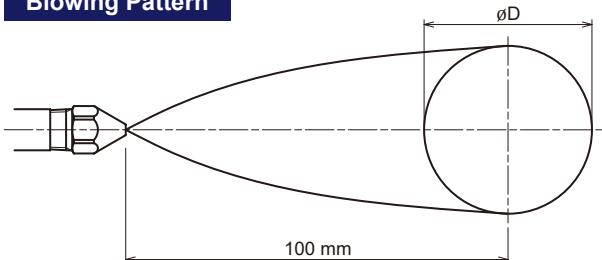
Dimensions and weight

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 $\varnothing d$ (mm)
R1/8 or R1/4	$\varnothing 1.0A$	1.0
	$\varnothing 1.5A$	1.5
	$\varnothing 2.0A$	2.0
	$\varnothing 2.5A$	2.5

Blowing Pattern

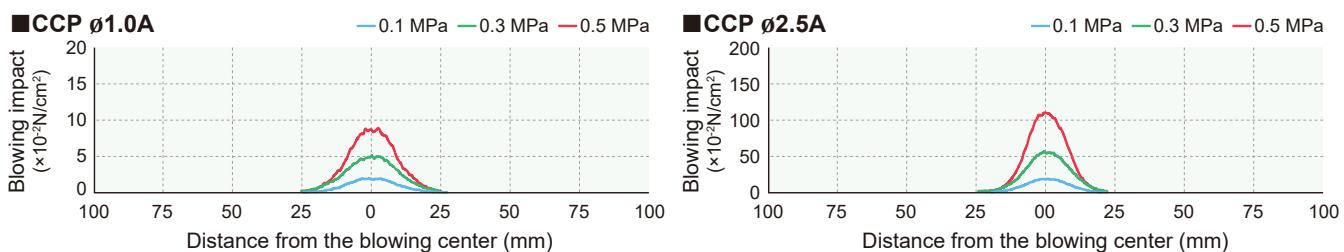
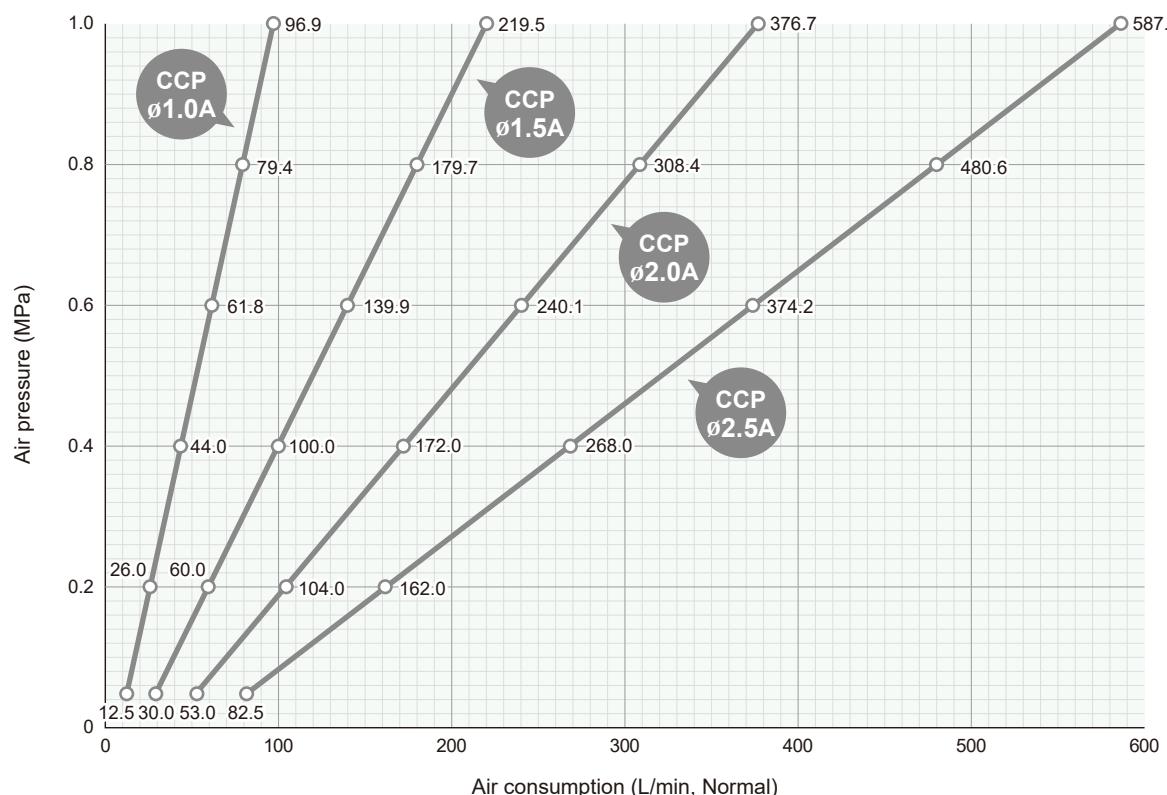


Orifice diameter code	Blowing width $\varnothing D$ (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa
$\varnothing 1.0A$	40	40	40
$\varnothing 2.5A$	30	30	30

Noise Level at a distance of 1,000 mm

Background noise: 46 dBA

Orifice diameter code	Pressure (MPa)	Noise level (dBA)	Orifice diameter code	Pressure (MPa)	Noise level (dBA)
ø1.0A	0.1	55	ø2.5A	0.1	72
	0.3	66		0.3	84
	0.5	71		0.5	89

Blowing Impact Distribution at 100 mm from the nozzle orifice**Air Consumption****HOW TO ORDER**

To inquire about or order a specific nozzle please refer to this coding system.

<Example> 1/8M CCP ø1.0A S303

1/8M CCP ø1.0A S303

Pipe Conn. Size*

- 1/8M
- 1/4M

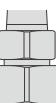
Orifice Diameter Code

- ø1.0A
- ø1.5A
- ø2.0A
- ø2.5A

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



For compressors



Blow pattern

- 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)



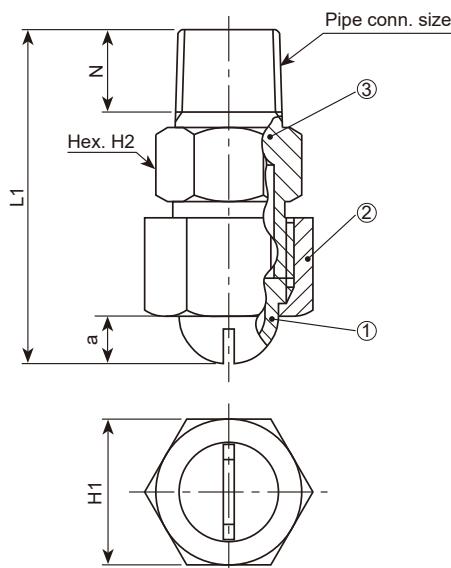
Noise level
70–94 dBA at 0.3 MPa



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

Drawing

Complete Assembly

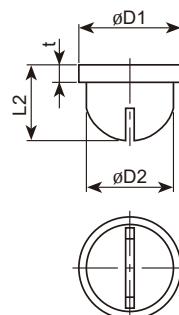


1. Nozzle tip
2. Cap
3. Adaptor



3D CAD models

Nozzle Tip



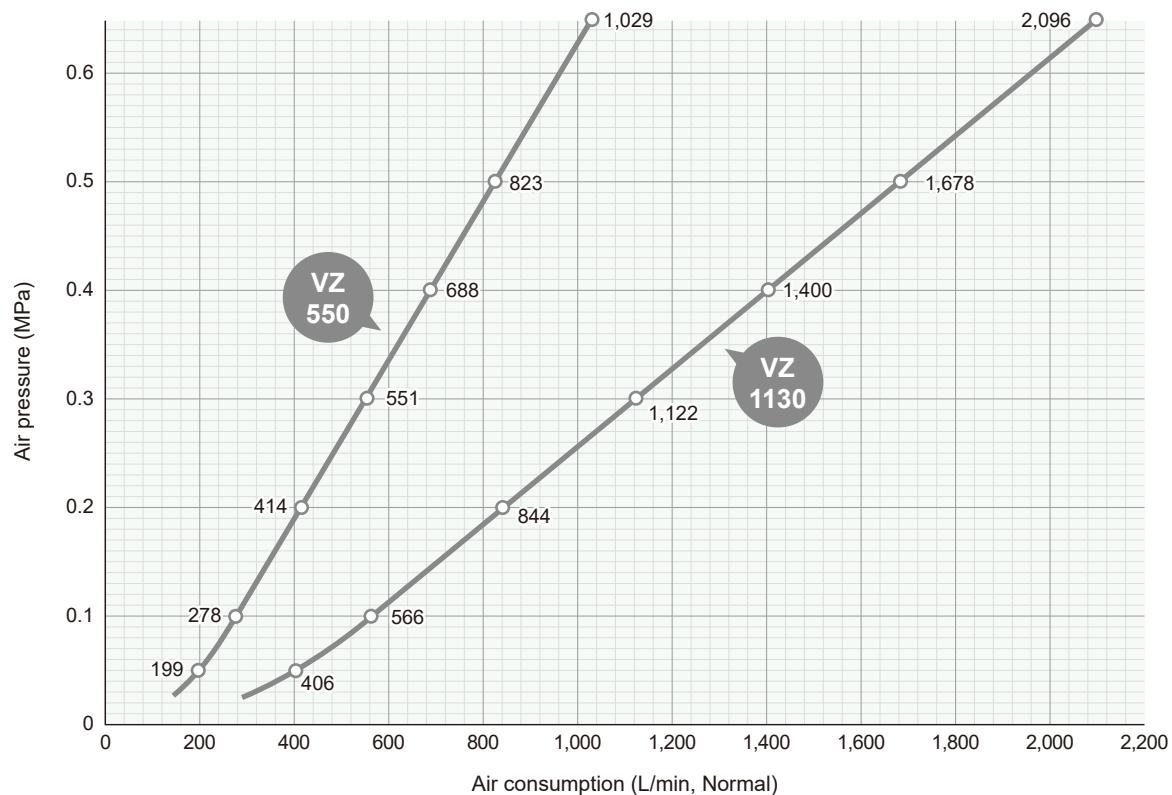
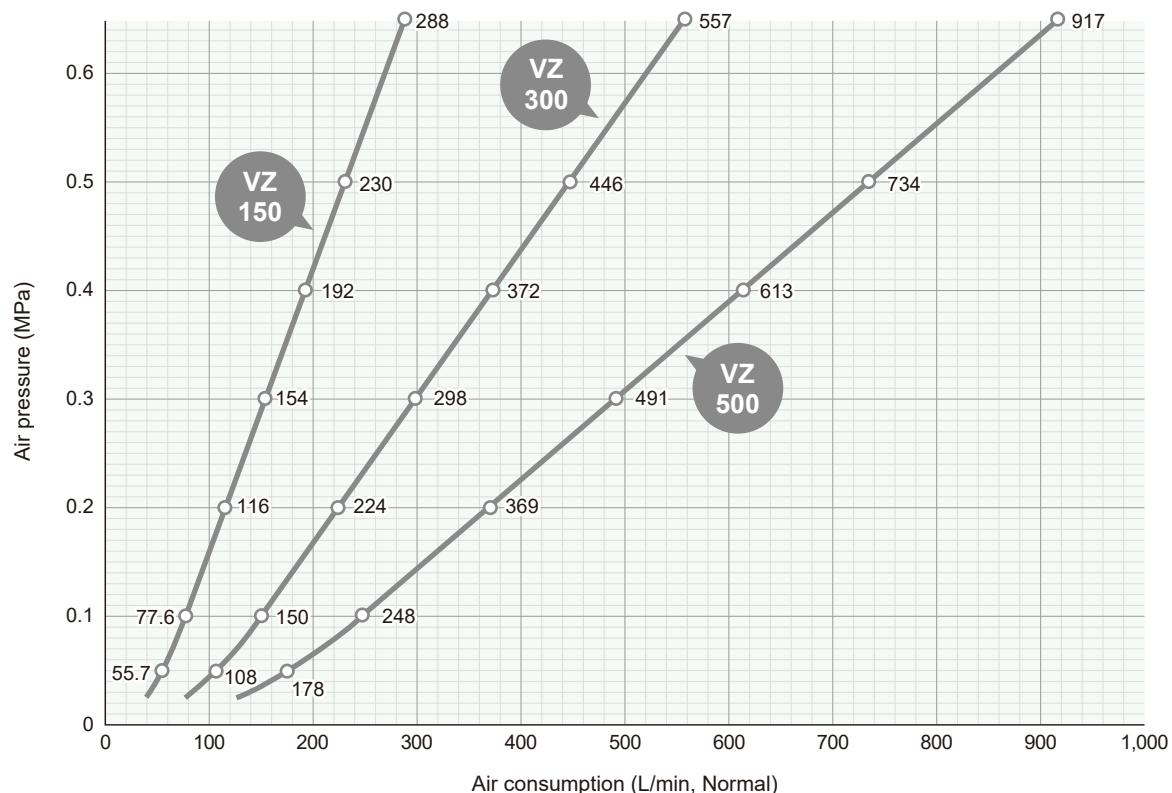
Complete Assembly

Pipe conn. size ¹	Outer dimensions (mm)					Weight (g)	Nozzle Tip				
	L1	H1	H2	N	a		L2	øD1	øD2	t	Weight (g)
R1/4 (150–500)	43.0	19.0	17.0	10.5	6.5	41	11.0	14.5	12.5	2.5	5.1
R3/8 (550–1130)	48.5	23.0	21.0	11.0	9.5	69	14.0	18.0	16.0	2.5	8.0

¹ Numbers after the pipe connection size indicate the capacity code (see page 40).

Air Consumption

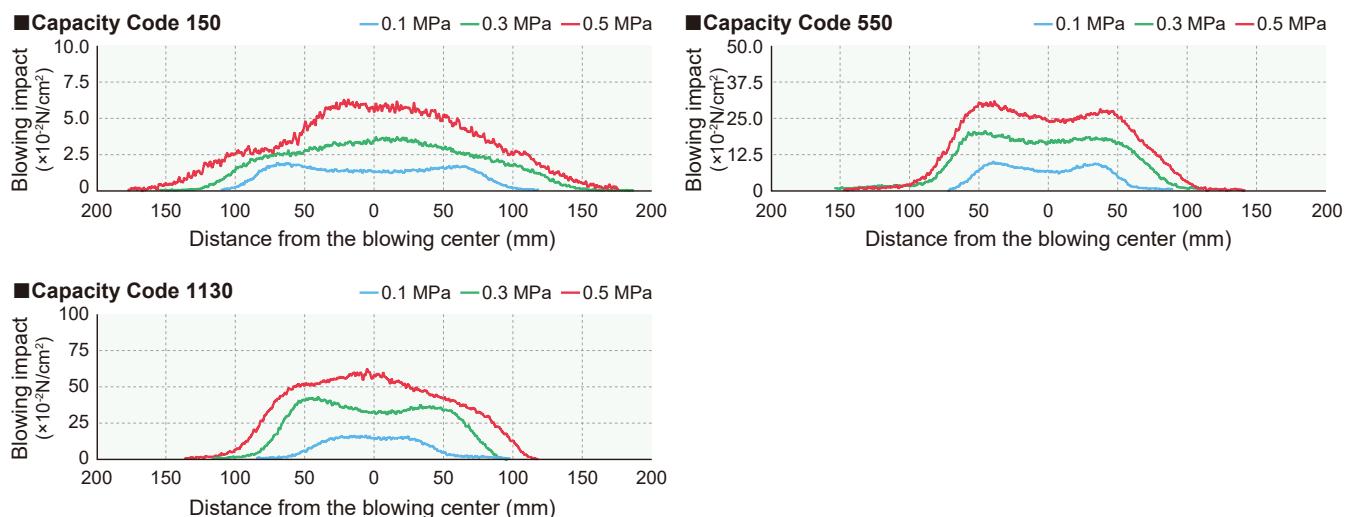
See Performance Data on page 40 for the other VZ series models and their air consumption.



Noise Level at a distance of 1,000 mm

Background noise: 34 dBA

Capacity code	Pressure (MPa)	Noise level (dBA)	Capacity code	Pressure (MPa)	Noise level (dBA)	Capacity code	Pressure (MPa)	Noise level (dBA)
150	0.1	59	550	0.1	74	1130	0.1	87
	0.3	70		0.3	84		0.3	94
	0.5	74		0.5	90		0.5	100

Blowing Impact Distribution at 100 mm from the nozzle orifice**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

To inquire about or order a specific nozzle please refer to this coding system.

Complete Assembly

<Example> 1/4M VZ 150 S303

1/4M VZ 150 S303Pipe Conn. Size¹²

- 1/4M ● 150–500
- 3/8M ● 550–1130

Nozzle Tip (only)

<Example> 1/4 VZ 150 S303

1/4 VZ 150 S303Pipe Conn. Size¹³

- 1/4 ● 150–500
- 3/8 ● 550–1130

¹²"M" indicates male thread ("R" of the ISO standard), e.g. 1/4M = R1/4.¹³Pipe connection size of the complete assembly

Long slit jet

Made-to-Order

SLNHA-H

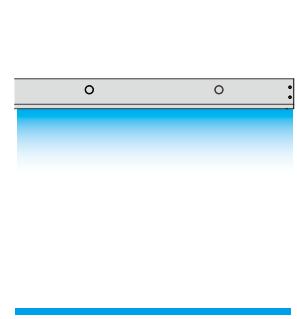
Compressed air



Lightweight type (Contact us for details)



For compressors



- Long slit jet producing 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.

Main material

Plastic: PVC, Metal: S304



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)



Air consumption

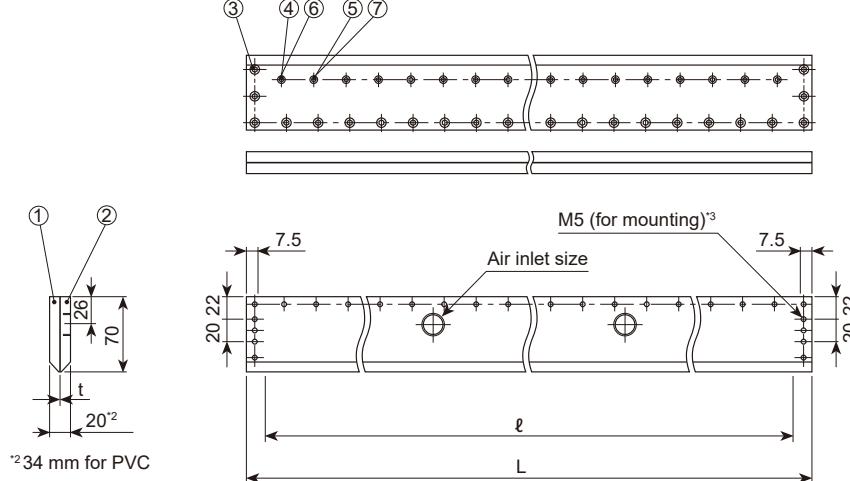
656–1,733 L/min, Normal at 0.05 MPa

Drawing

This drawing is of stainless steel SLNHA-H series.



3D CAD models



1. Body A (S304)
2. Body B (S304)
3. Bolt M5 × 10 (S304 equiv.)
4. Bolt M4 × 8 (S304 equiv.)
5. Bolt M4 × 10 (S304 equiv.)
6. O-ring P4 (FKM)
7. O-ring (FKM)

³M5 depth 8 mm for S304,
M5 depth 10 mm for PVC

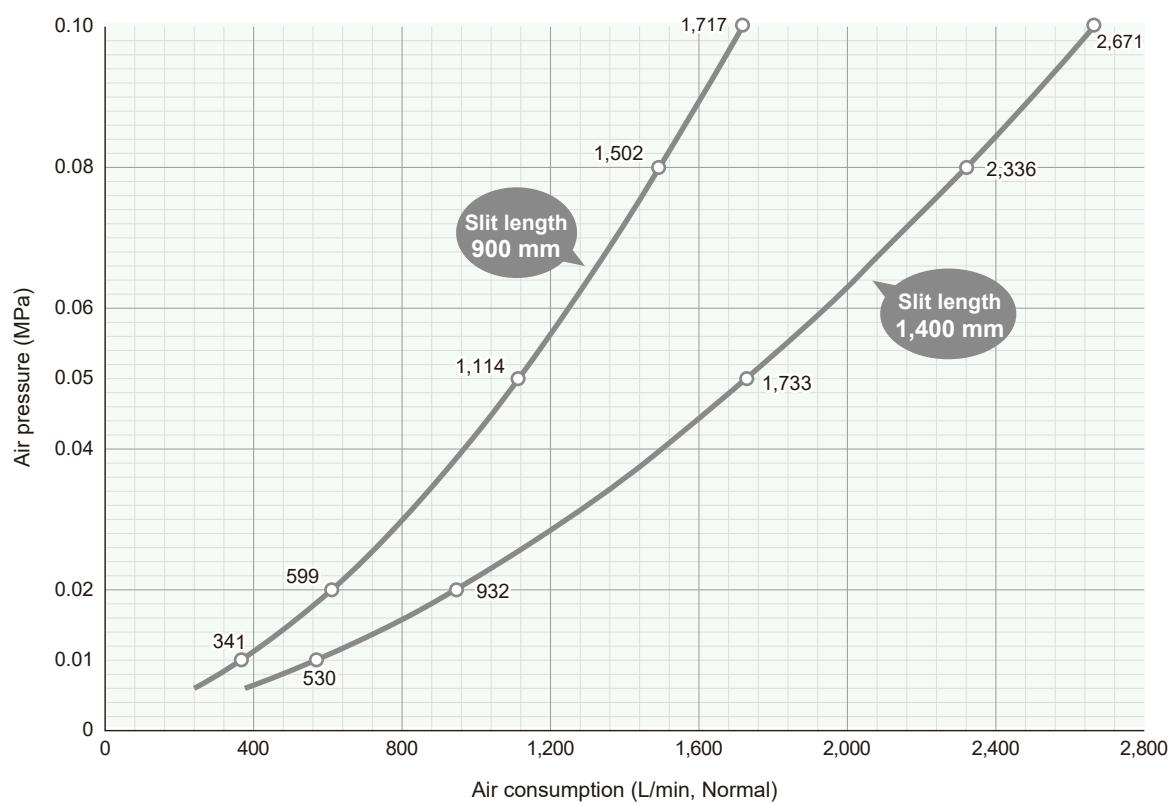
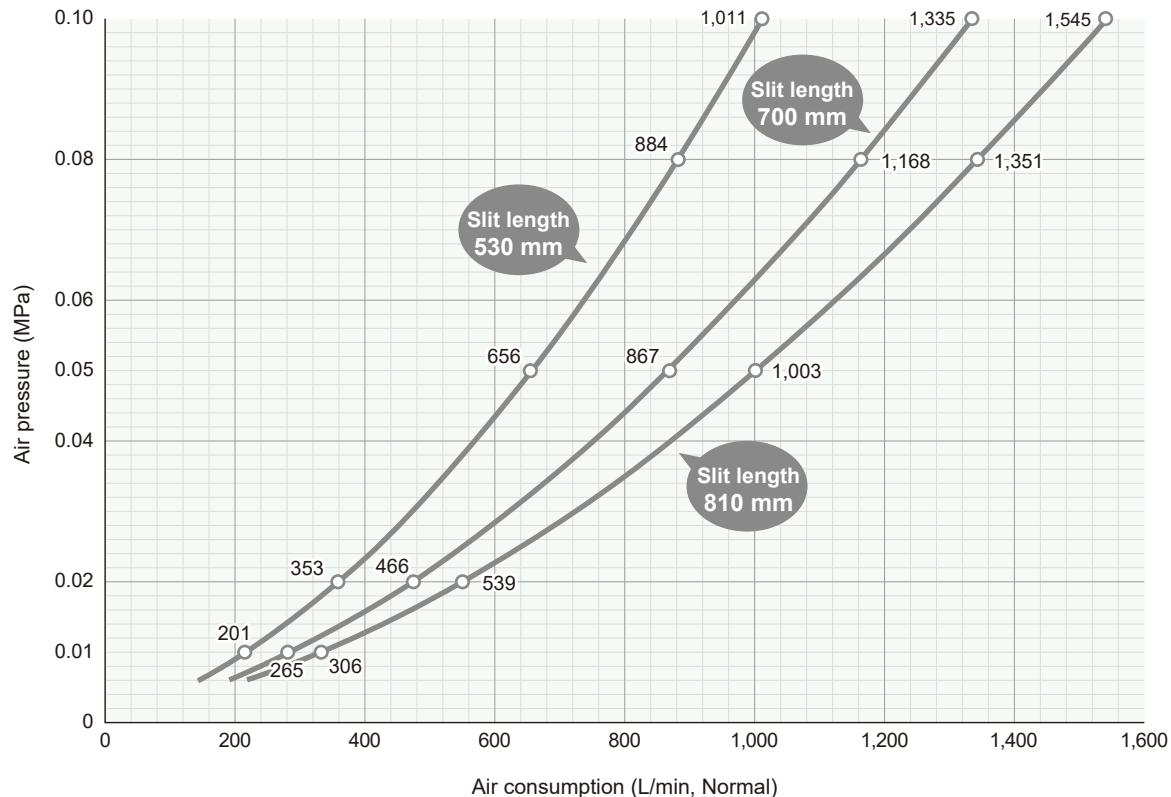
Dimensions and weight

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		3	Rc1/2	840	7.5	2.2
900			Rc1/2	930	8.0	2.5
1,400				1,430	12.0	4.0

¹S304: 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.

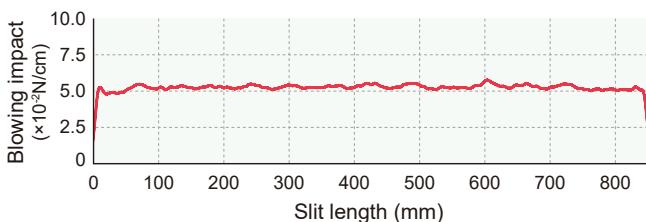
Air Consumption

Blowing Impact Distribution

Measured 5 mm from 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)

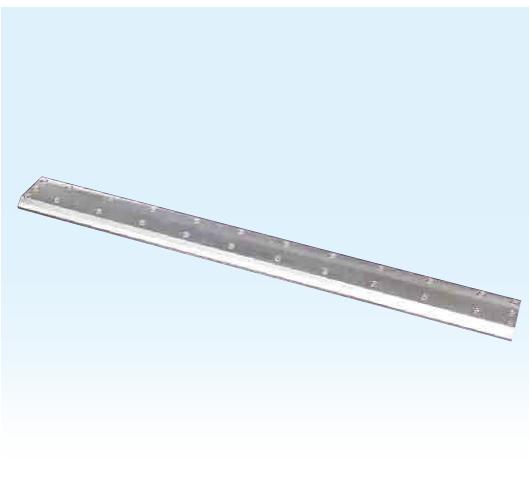


Deviation from median: +/-6.5%

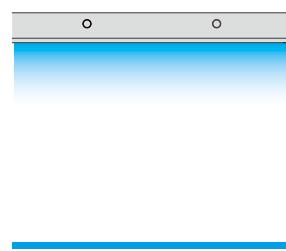
HOW TO ORDER

This nozzle series is made-to-order.

Total length can be tailored to your needs within the customizable range (see *1 on page 41).
Inquiry drawing forms are available to verify dimensional specifications.
Contact us for details.



For compressors



- Long slit jet producing 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

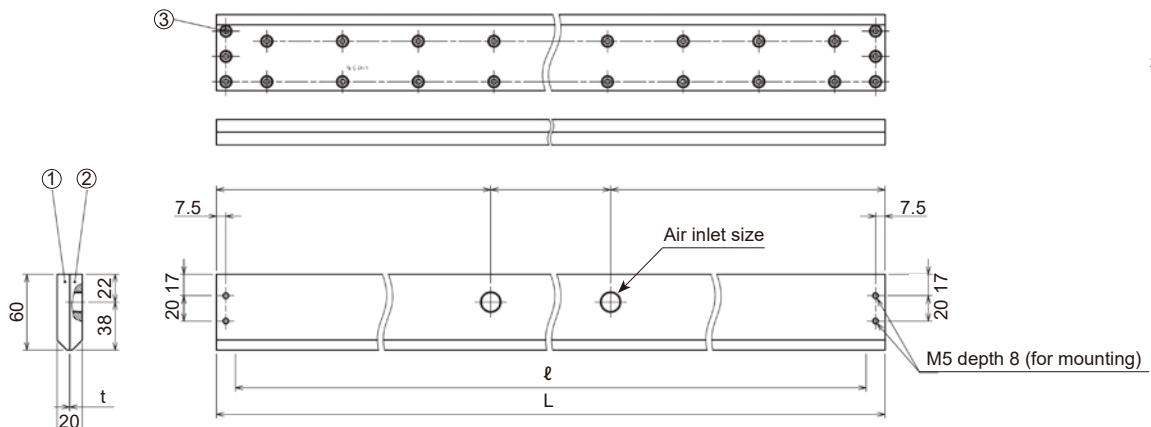
Max. operating pressure
0.1 MPa (14 psi)

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



3D CAD models

Drawing



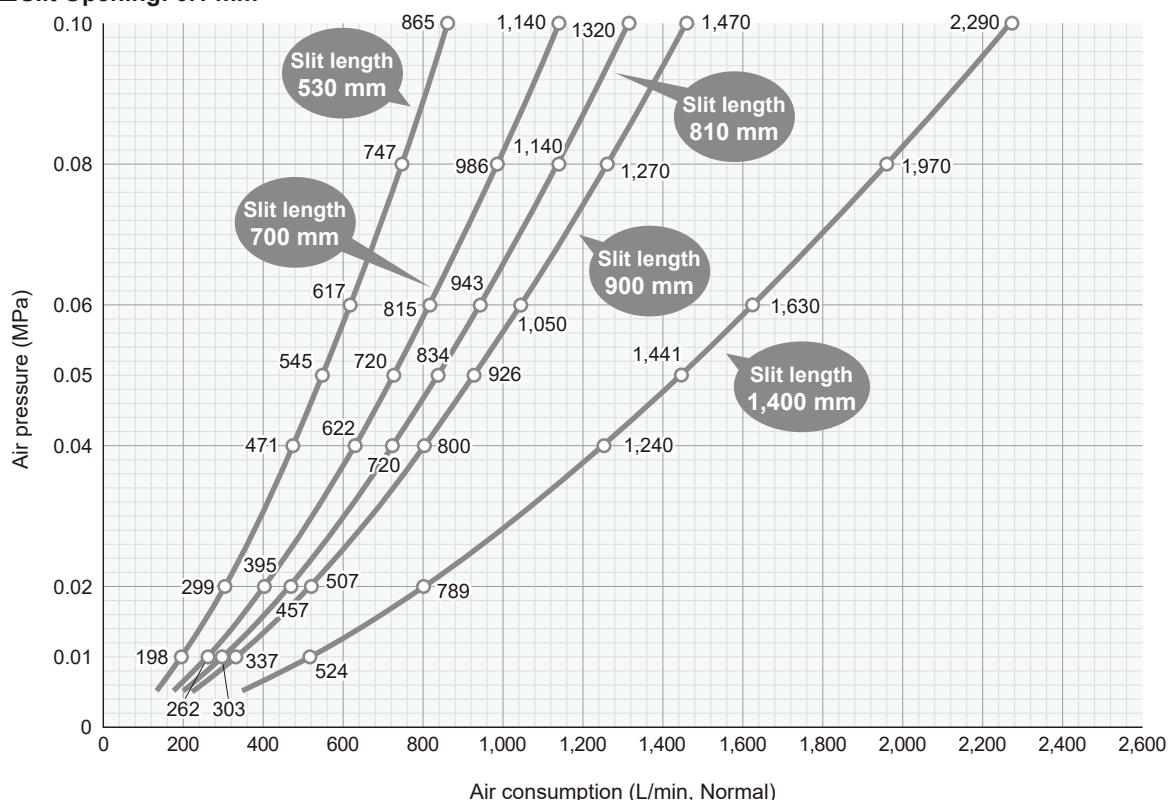
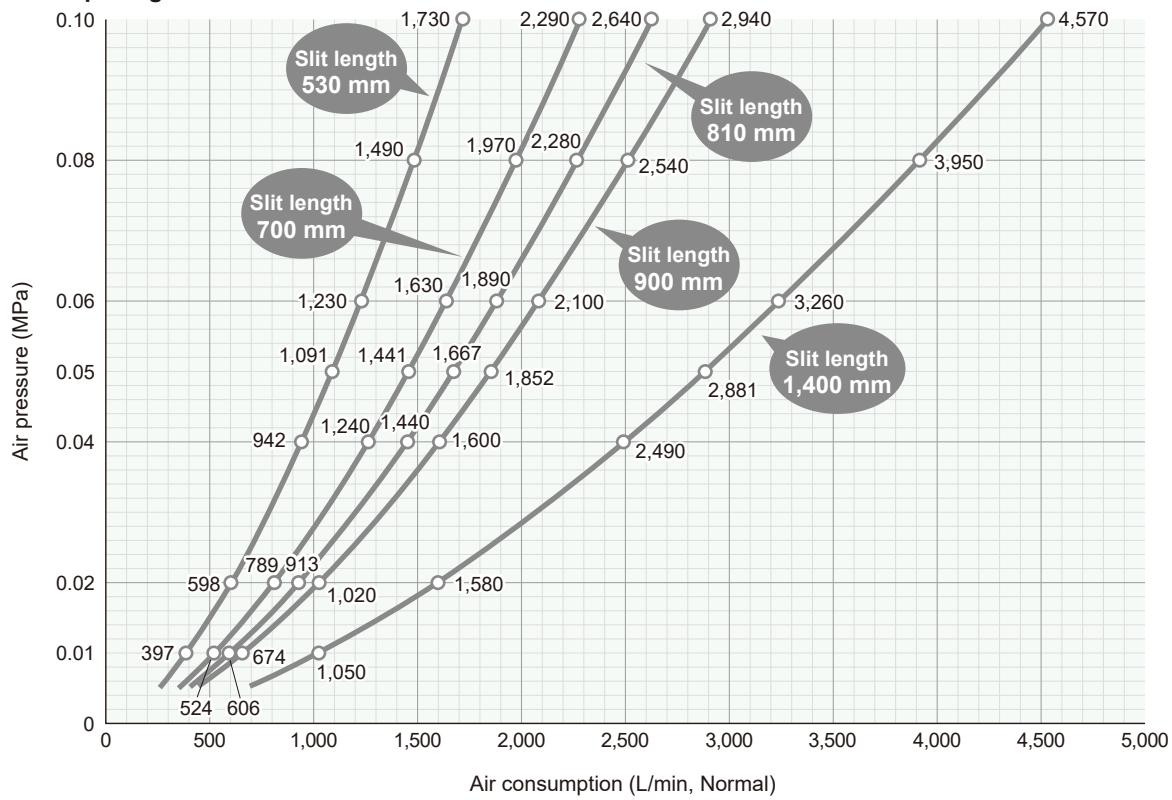
1. Body A (S304)
2. Body B (S304)
3. Bolt M5×10 (S304 equiv.)

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	2 or 3	Rc3/8	560	4.6	S304
700		3 to 5		730	6.0	
810		5 to 7		840	6.9	
900		5 to 7		930	7.7	
1,400		5 to 7		1,430	12.0	

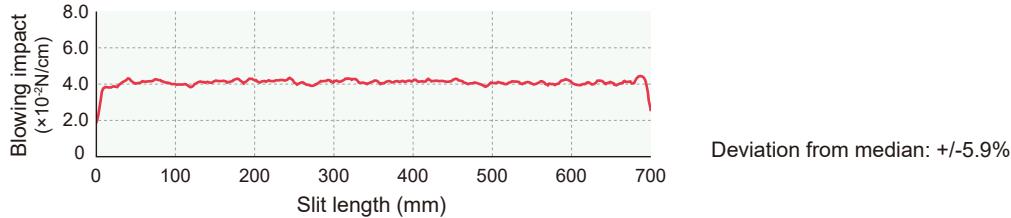
¹Customizable total length from 250 mm to 2,300 mm with slit opening of 0.1–0.2 mm.

²The 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 from the nozzle orifice and at an air pressure of 0.05 MPa

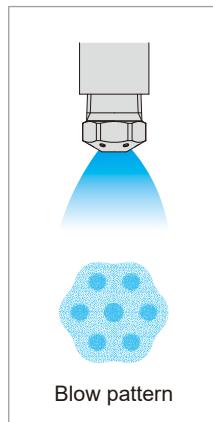
■ SLNHA-NA 700×0.1
(Slit length: 700 mm, slit opening: 0.1 mm)**HOW TO ORDER**

This nozzle series is made-to-order.

Total length can be tailored to your needs within the customizable range (see *1 on page 44).
Inquiry drawing form is available to verify dimensional specifications.
Contact us for details.



For compressors



- Air nozzle with a full cone air blow pattern.
- A single nozzle covers a wide area with a blow width of 135 mm at 0.3 MPa.
- The compact design of only 2 cm in length fits easily in a tight space.
- Suitable for blowing air over circular-shaped workpieces, cooling, and gas purging.
- Available with orifice diameters of 0.5, 1.0, or 1.5 mm.

Material
S303

Weight
13 g

Max. operating pressure
1.0 MPa (140 psi)

Max. temperature
400°C (750°F)

Noise level
57–82 dBA at 0.3 MPa

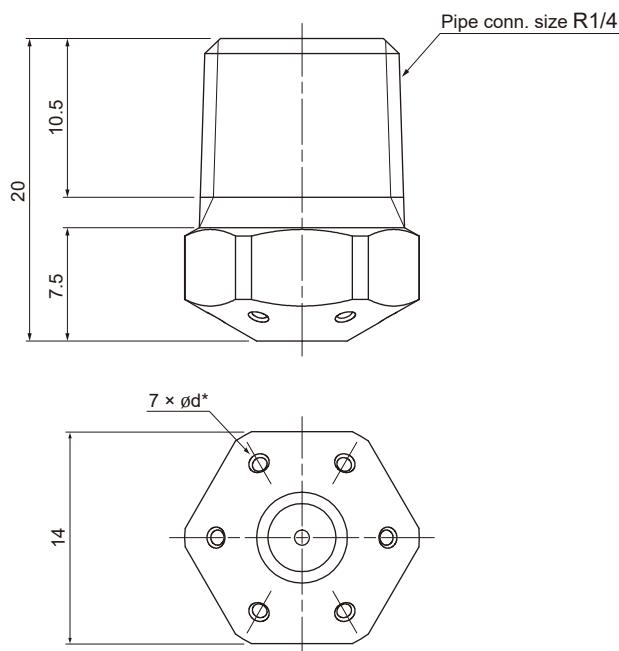
Air consumption
49–456 L/min, Normal at 0.3 MPa

Drawing

- 1/4M JAN 7-005 S303
- 1/4M JAN 7-010 S303
- 1/4M JAN 7-015 S303

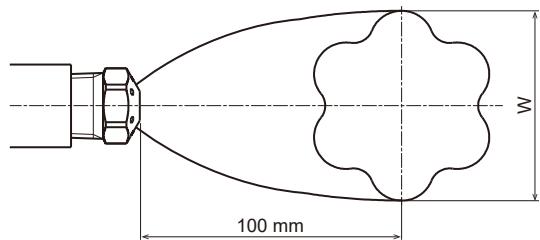


3D CAD models



Unit: mm

*Ød = Orifice Diameter (OD): Ø0.5, Ø1.0, or Ø1.5 mm.

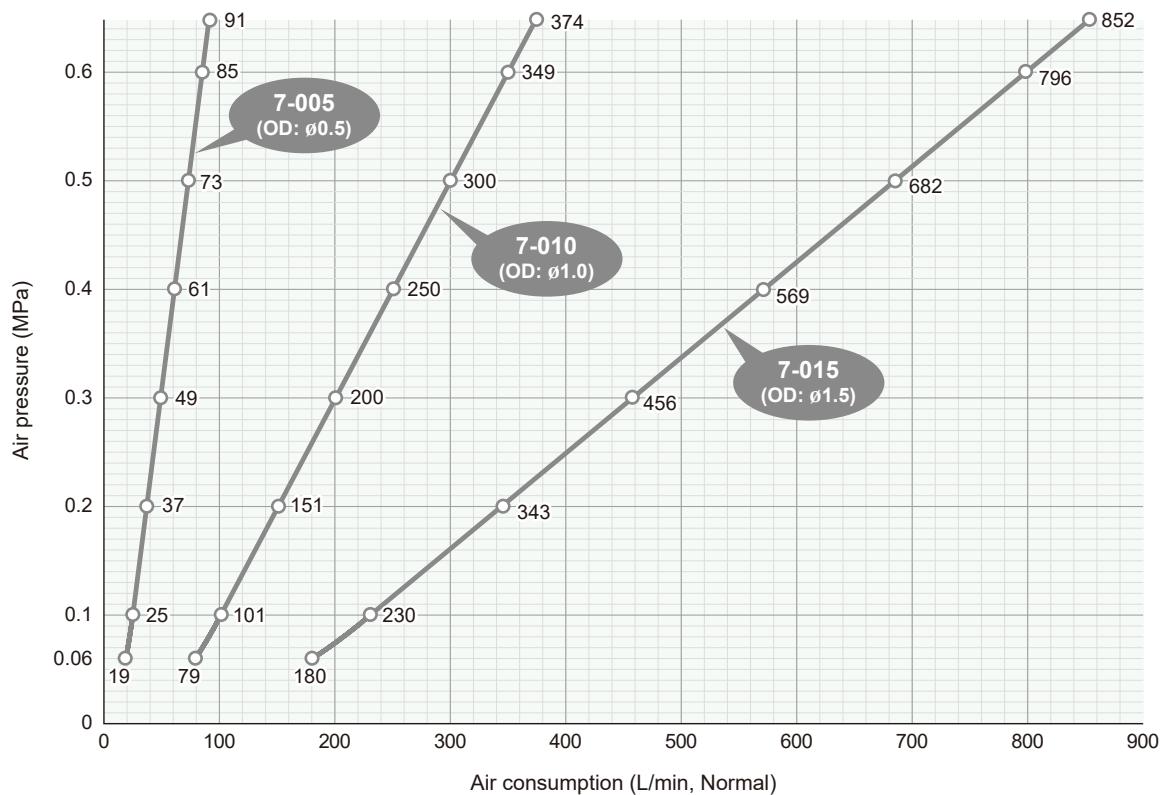
Blowing Pattern

Orifice code	Blowing width W (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa
7-005			
7-010	125	135	140
7-015			

Noise Level at a distance of 1,000 mm

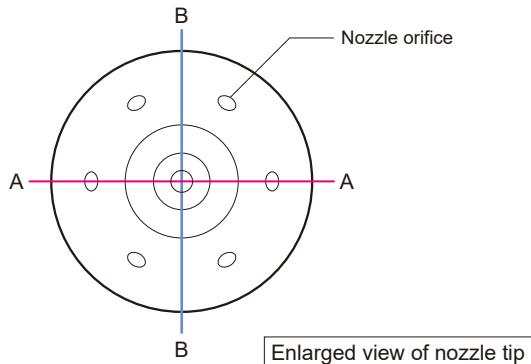
Background noise: 47 dBA

Orifice code	Pressure (MPa)	Noise level (dBA)	Orifice code	Pressure (MPa)	Noise level (dBA)	Orifice code	Pressure (MPa)	Noise level (dBA)
7-005	0.1	50	7-010	0.1	61	7-015	0.1	71
	0.3	57		0.3	72		0.3	82
	0.5	63		0.5	78		0.5	87

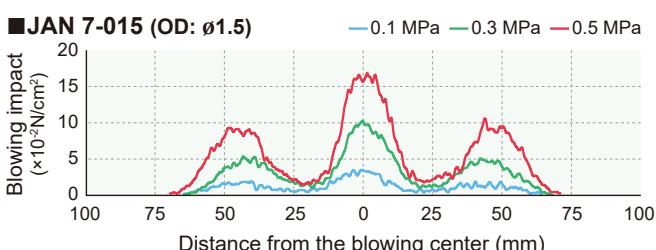
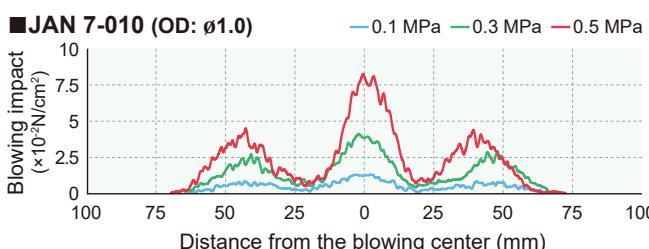
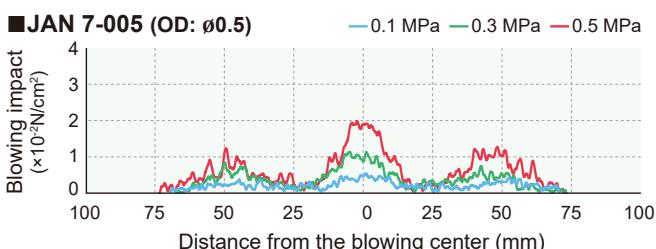
Air Consumption

Blowing Impact Distribution

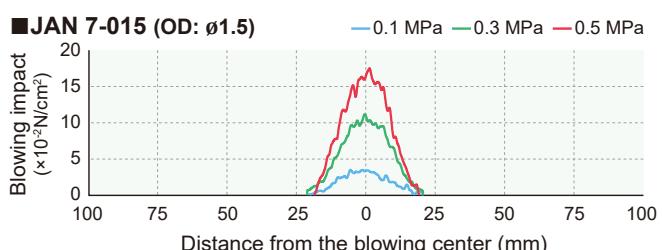
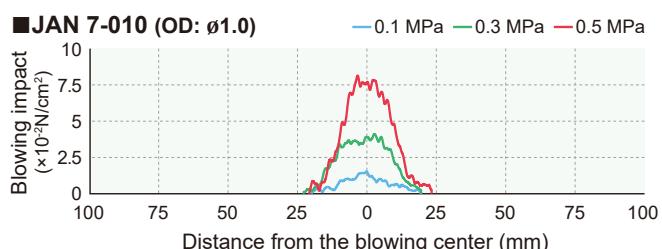
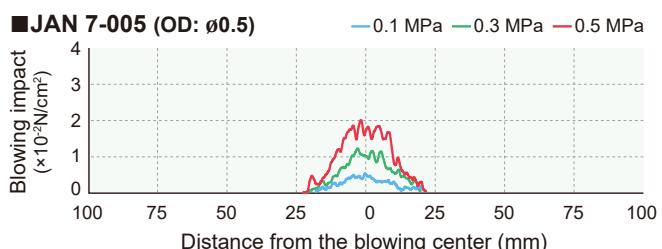
Blowing impact distributions below are measured at 100 mm from the nozzle in directions A and B.



Blowing Impact Distribution in Direction A



Blowing Impact Distribution in Direction B



(OD = Orifice Diameter)

HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system.

<Example> 1/4M JAN 7-005 S303

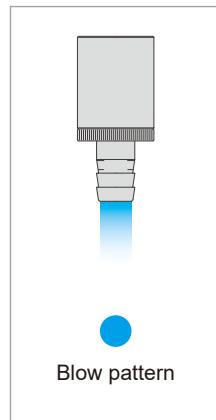
1/4M JAN 7-005 303

Orifice Code

- 7-005
- 7-010
- 7-015



For compressors



- By adding ambient air to supplied air, the air output is amplified by $\times 10^*$, 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 54 for details.

Material
S303

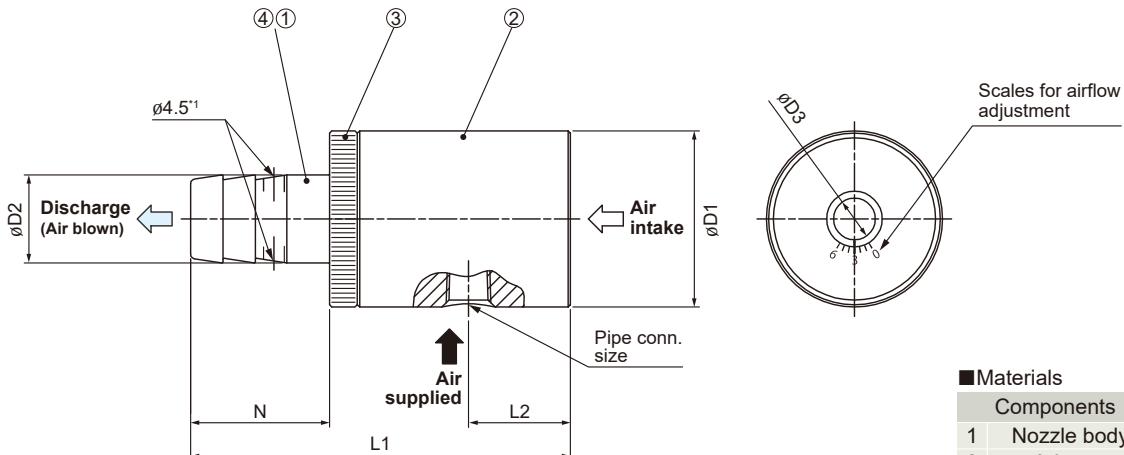
Weight
405–2,370 g

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

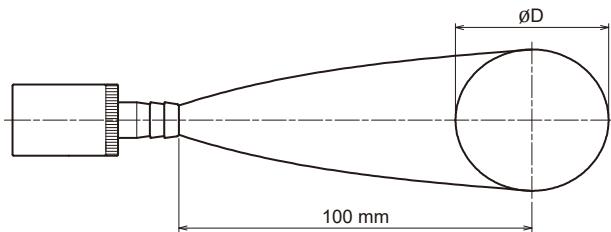
¹Holes for securing the nozzle body with a Ø4.0 rod for air flow adjustment.

EJA750 has holes of Ø6.5 for a Ø6.0 rod.

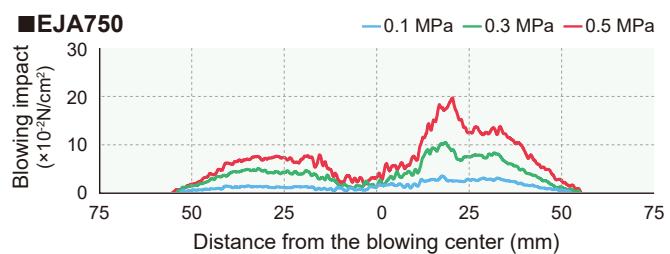
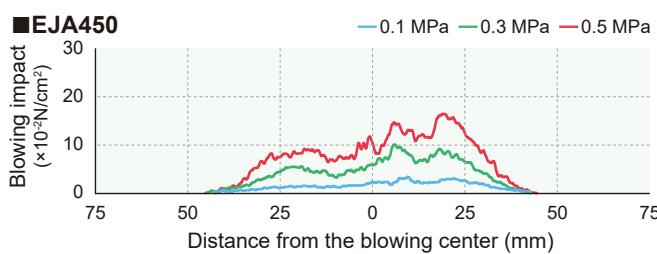
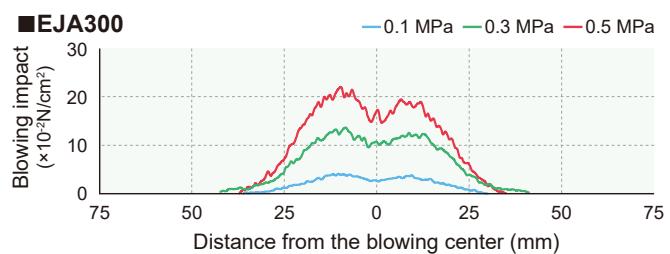
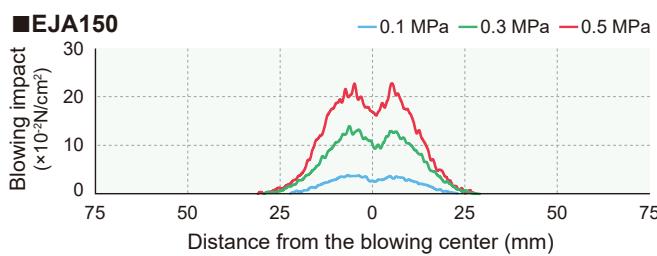
Noise Level at a distance of 1,000 mm

Background noise: 35 dBA

Capacity code	Pressure (MPa)	Noise level (dBA)	Capacity code	Pressure (MPa)	Noise level (dBA)
EJA300	0.1	70	EJA750	0.1	70
	0.3	81		0.3	83
	0.5	86		0.5	89

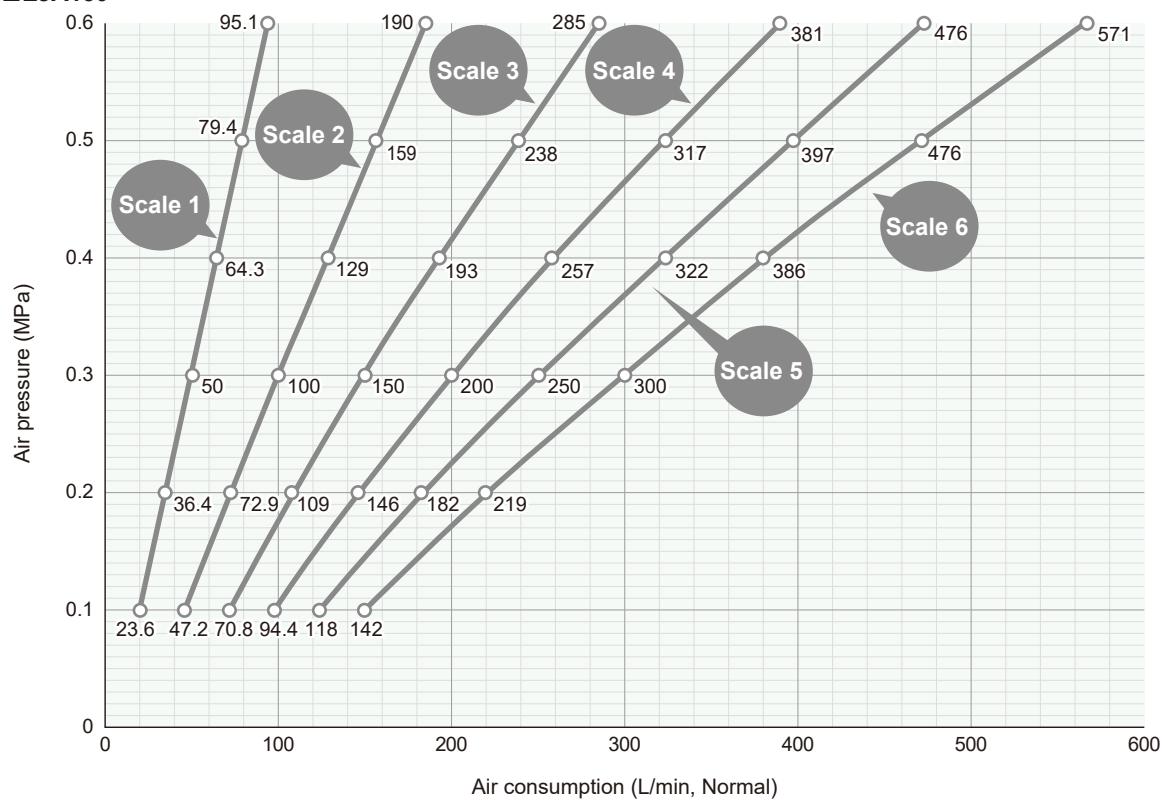
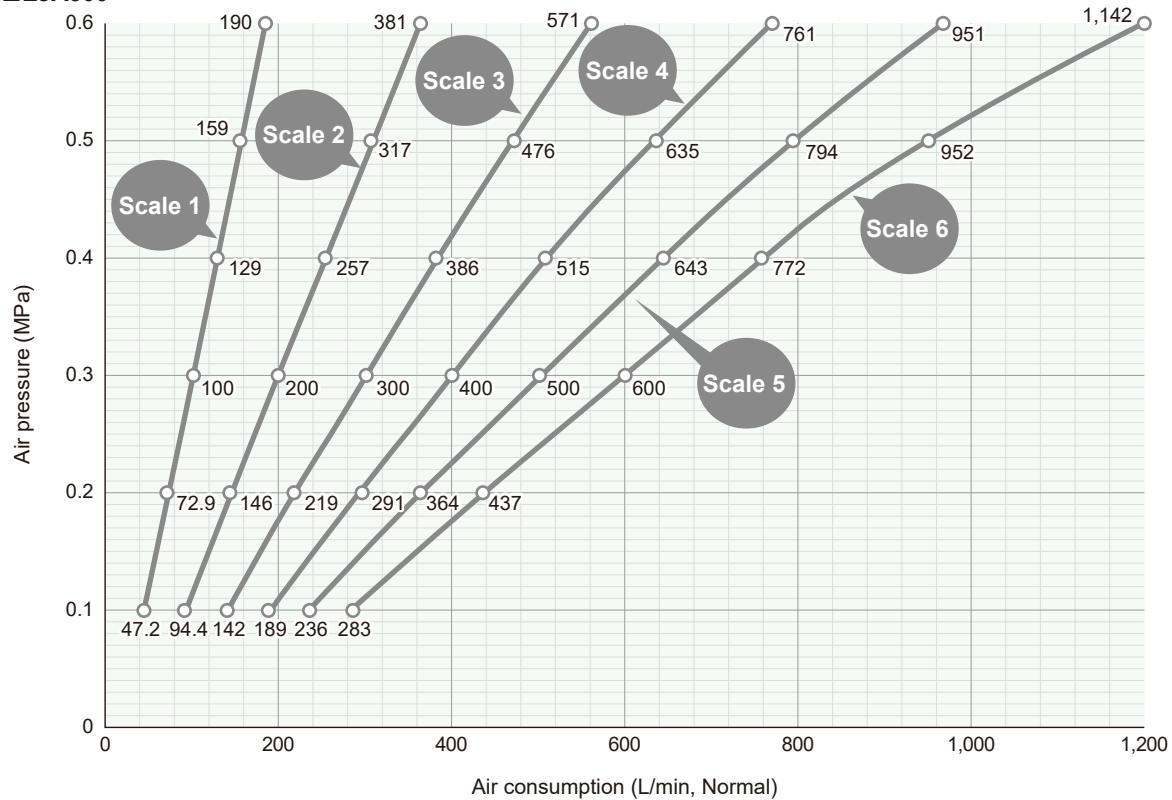
Blowing Pattern

Capacity code	Blowing width ϕD (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa
EJA150	30	30	30
EJA300	50	50	50
EJA450	70	70	70
EJA750	100	100	100

Blowing Impact Distribution at 100 mm from the nozzle orifice, measured with the air flow adjustment dial set to 3

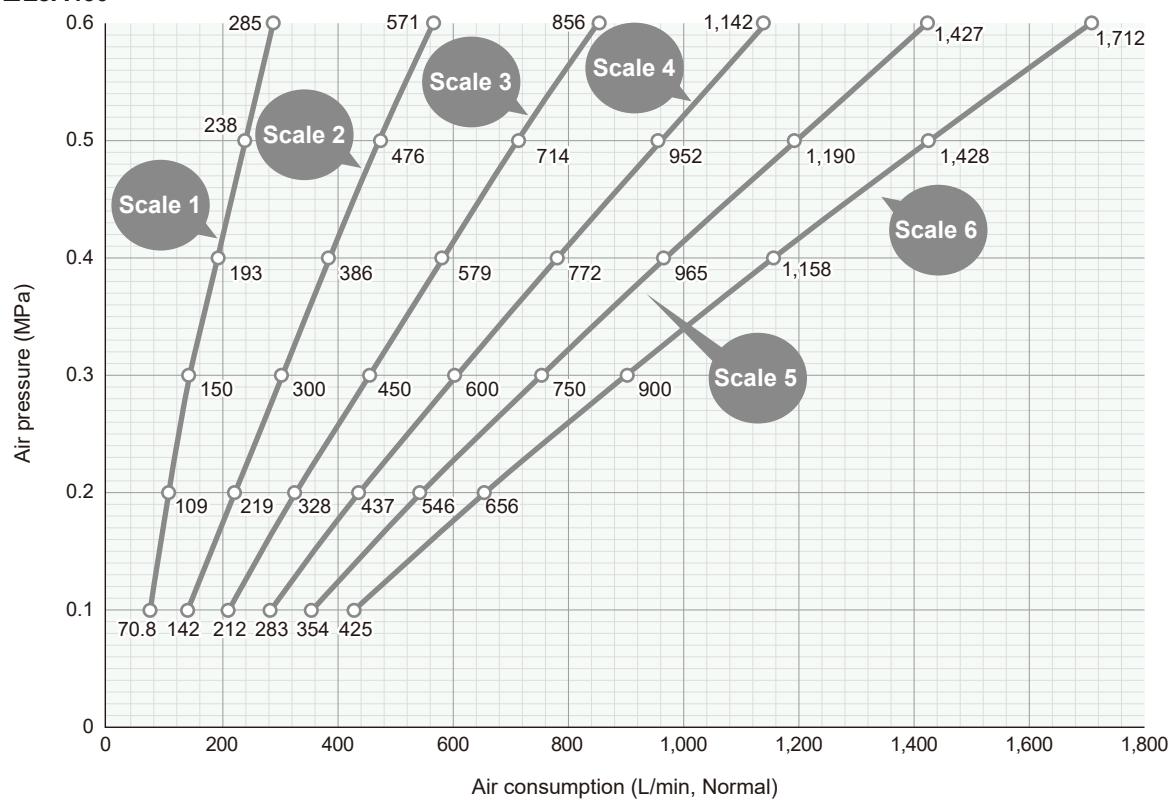
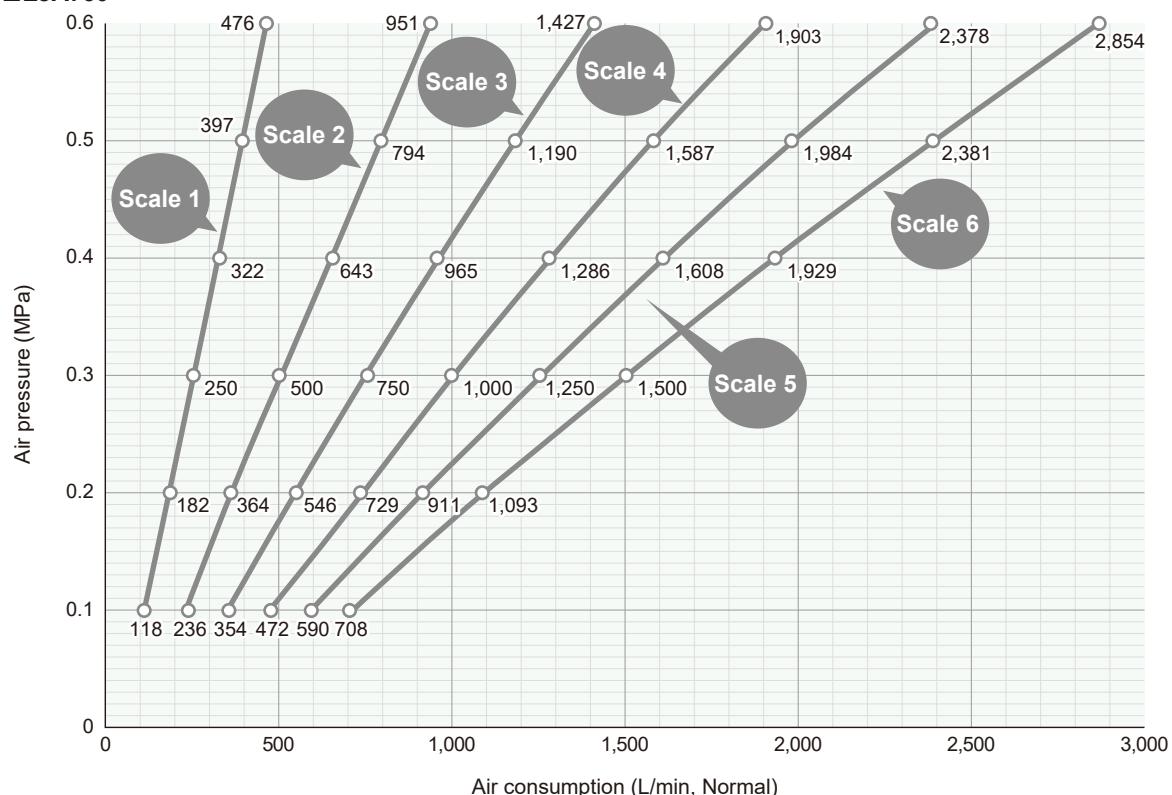
Air Consumption

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

EJA150**EJA300**

Air Consumption

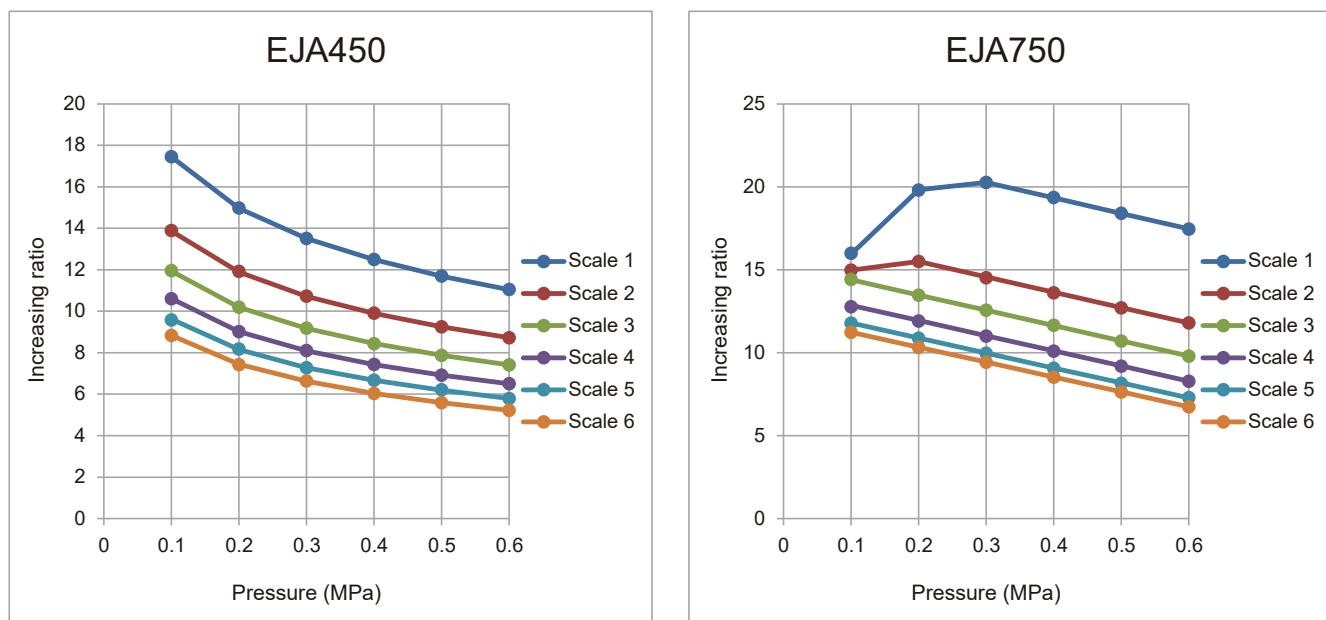
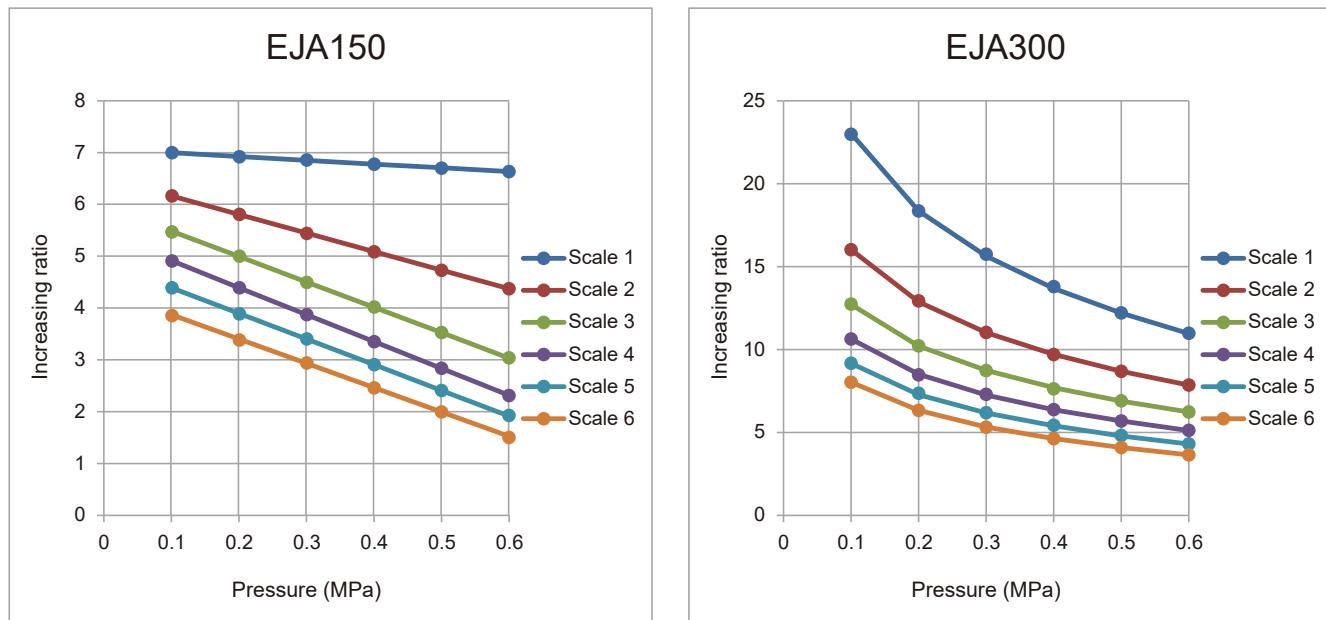
Scales 1–6 are the dial markings on the nozzle for air flow adjustment.

EJA450**EJA750**

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.

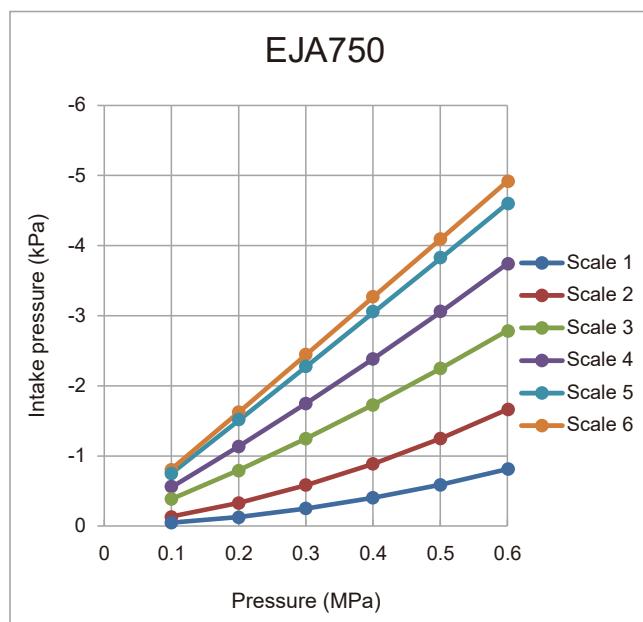
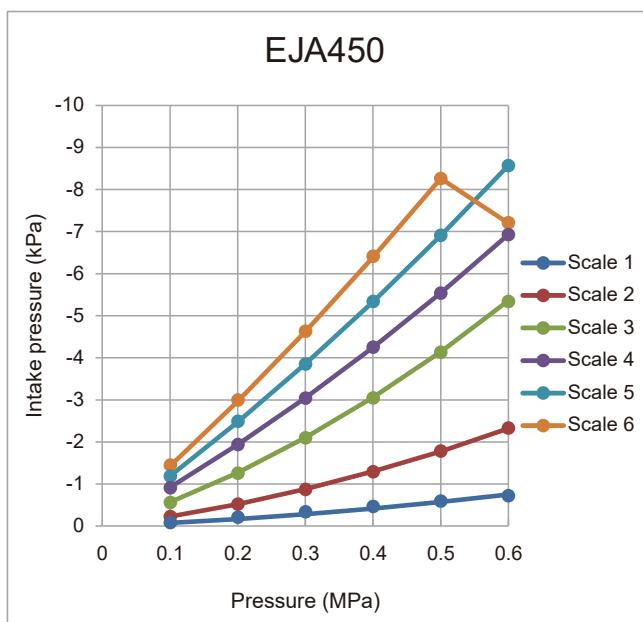
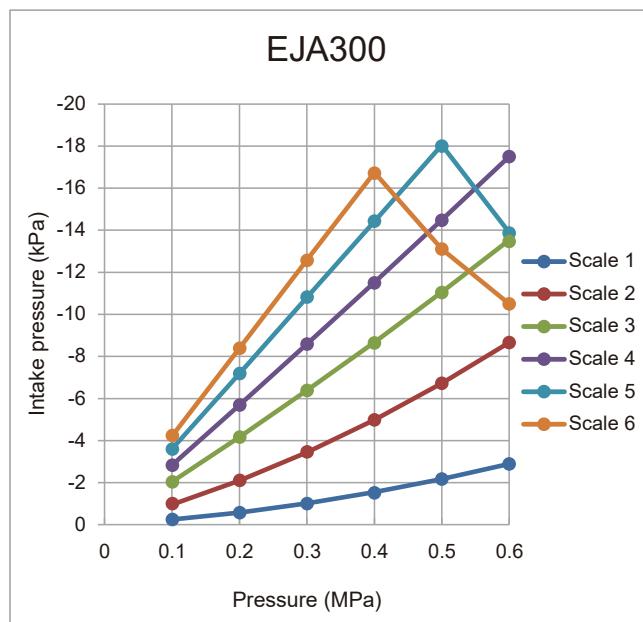
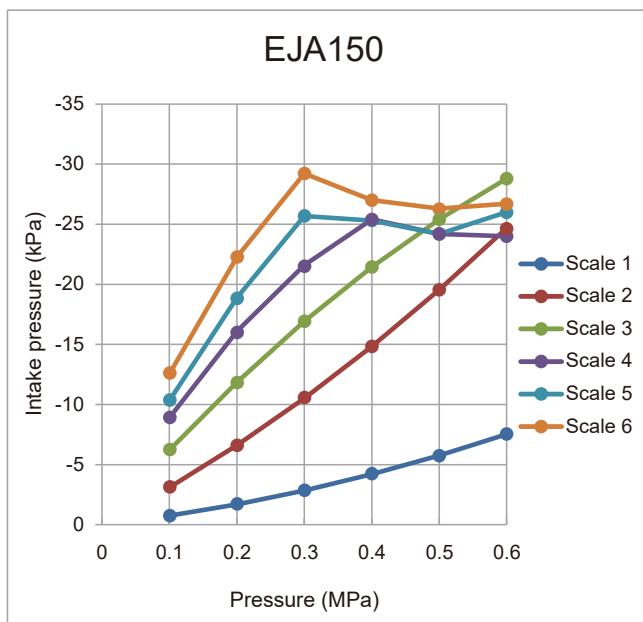


Intake Air Pressure

Intake air pressure is the pressure applied to the intake port of the nozzle (see page 50).

If using the nozzle for an air intake application like powder transfer, set the flow adjustment dial to 3 or 4.

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

**HOW TO ORDER**

To inquire about or order a specific nozzle please refer to this coding system.

<Example> 1/4F EJA 300 S303

1/4F

Pipe Conn. Size*

- 1/8F EJA150
- 1/4F EJA300
- 3/8F EJA450

EJA 300

Capacity Code

- EJA150
- EJA300
- EJA450
- EJA750

S303

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



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: 94 g
TF-GUN with TF-F24: 97 g
TF-GUN with TF-F42: 121 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)

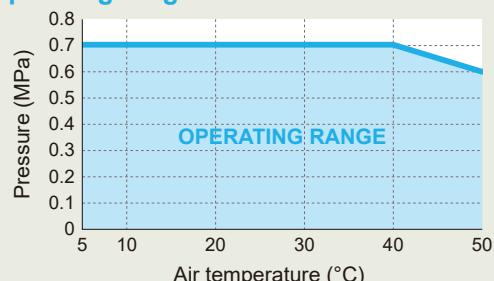


Air consumption at 0.3 MPa (with air flow valve set to Max.)
TF-GUN with TF-R: 225 L/min, Normal
TF-GUN with TF-F24: 200 L/min, Normal
TF-GUN with TF-F42: 350 L/min, Normal



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

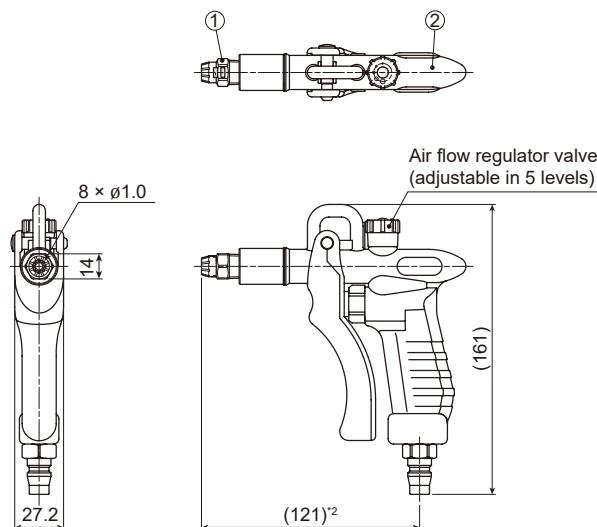
Operating range of TF-GUN with TF-F42



^{*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



Unit: mm

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



3D CAD models

Note:

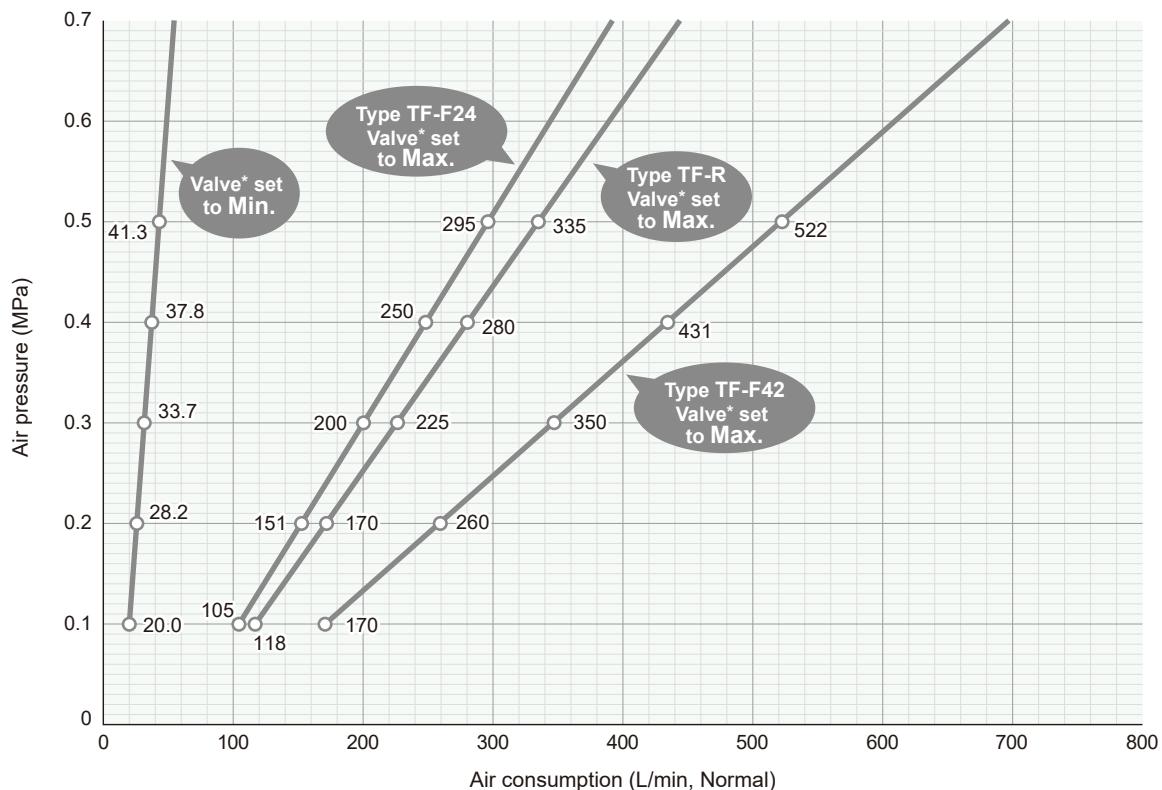
Technical drawings for other models available upon request:
1/8M TF-F 24-8-010 PPS-IN + Air duster TD-30H
1/4M TF-F 42-16-010 PPS + Air duster TD-30H

1. Nozzle
2. Air duster gun

^{*2}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.

Air Consumption



*Air flow regulator valve (built-in)

HOW TO ORDER

Please use these product codes for inquiries and orders.

Round jet nozzle TF-R + blow gun:

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

Compact flat jet nozzle TF-F24 + blow gun:

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

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

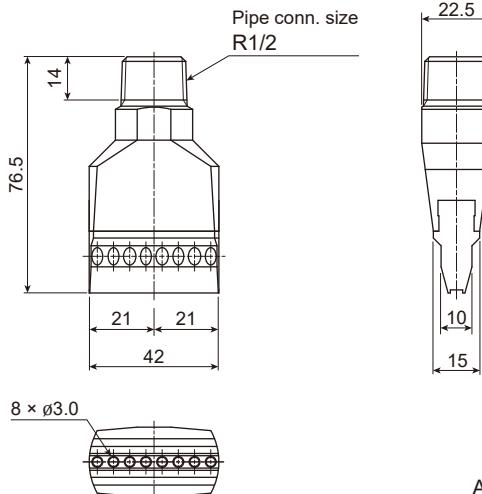


Air consumption

0.565 m³/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



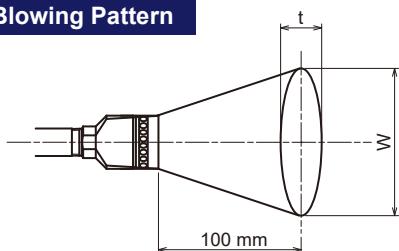
Unit: mm



3D CAD models

Adhesive is used for assembly of some parts.

Blowing Pattern

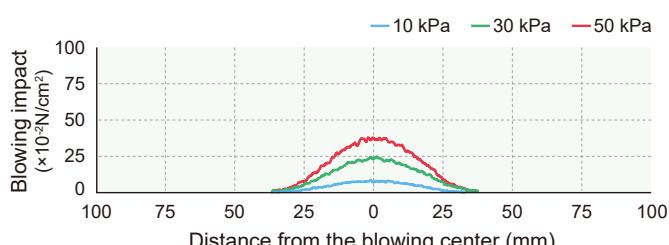
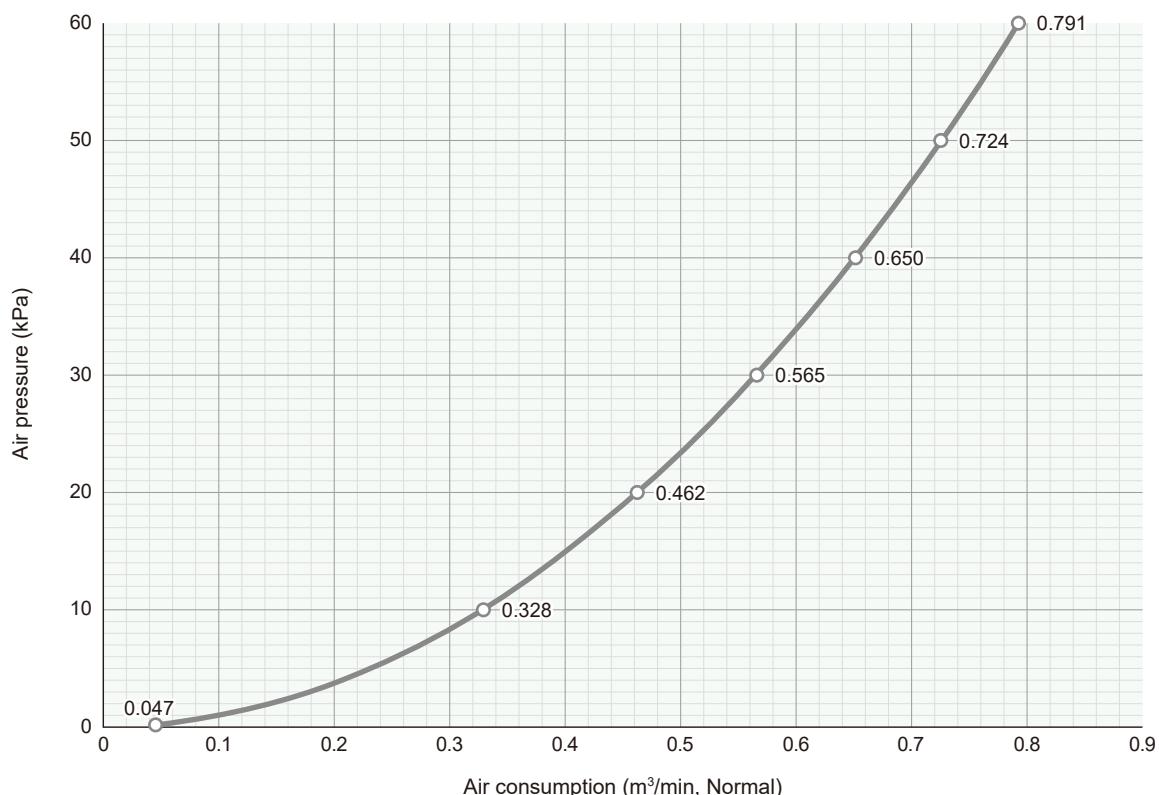


Air pressure (kPa)	Blowing width W (mm)	Thickness t (mm)
10	50	50
30	55	50
50	55	50

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 from 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

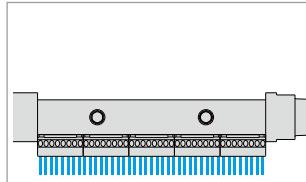
Plastic



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



Weight¹
Plastic: 220–4,360 g



Max. operating pressure
Plastic²: 100 kPa (14 psi), Metal: 100 kPa (14 psi)
[100 kPa = 0.1 MPa]



Max. temperature
Plastic²: 80°C (170°F), Metal: 150°C (300°F)



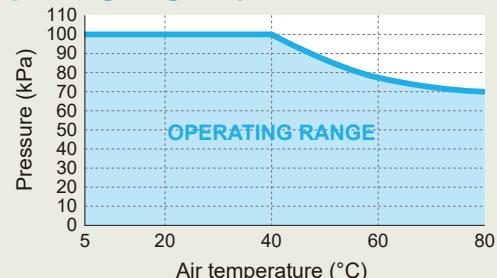
Noise level
106 dBA at 30 kPa (for plastic TF-BPF 420-80-030)



Air consumption
2.94–14.1 m³/min [2,940–14,100 L/min], Normal at 30 kPa

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

Operating range of plastic model



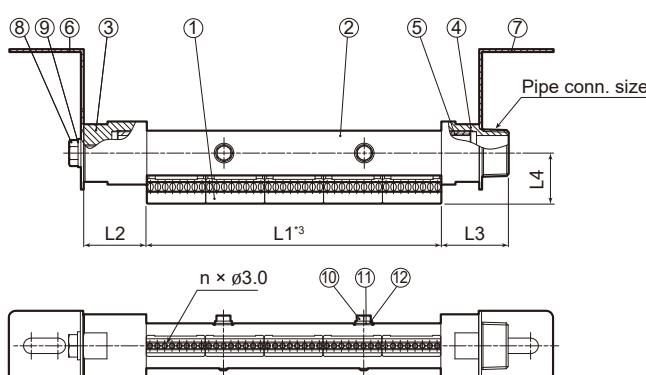
²Heat resistance varies depending on the pressure applied.
Blue colored area indicates the operating range of plastic TF-BPF series.



3D CAD models

Drawing

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



³L1 = Length of nozzle tips
(42 mm x number of nozzle tips)
Contact us for blowing width.

Configuration may differ.

Materials

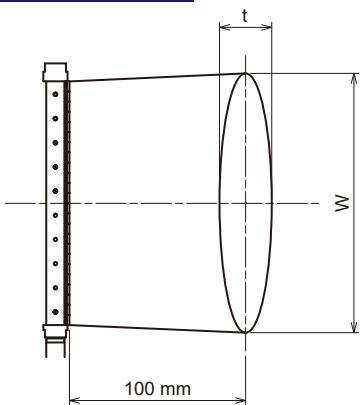
Components		Materials	Remarks
1	Nozzle tip	PPS	
2	Pipe	HTPVC	
3	Cap	HTPVC	PPS for 2 1/2"
4	Adaptor	HTPVC	PPS for 2 1/2"
5	Sleeve	HTPVC	
6	Plate (fixed)	S304	Optional
7	Plate (loose)	S304	Optional
8	Bolt (M10)	S304 equiv.	Optional
9	Washer (10)	S304 equiv.	Optional
10	Bolt (M6)	S304 equiv.	
11	Packing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

- Sealing materials are used for assembly of some parts.
- Optional plates come unassembled.

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

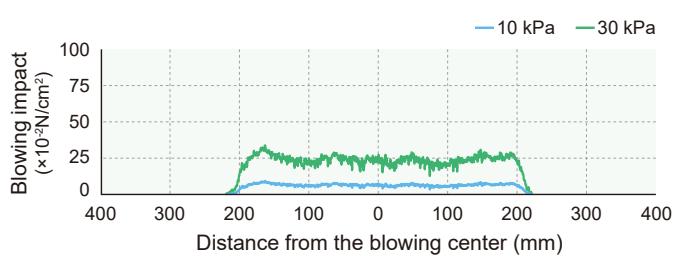
■Model: 1*1/2M TF-BPF 420-80-030 PPS+HTPVC

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

Blowing Impact Distribution

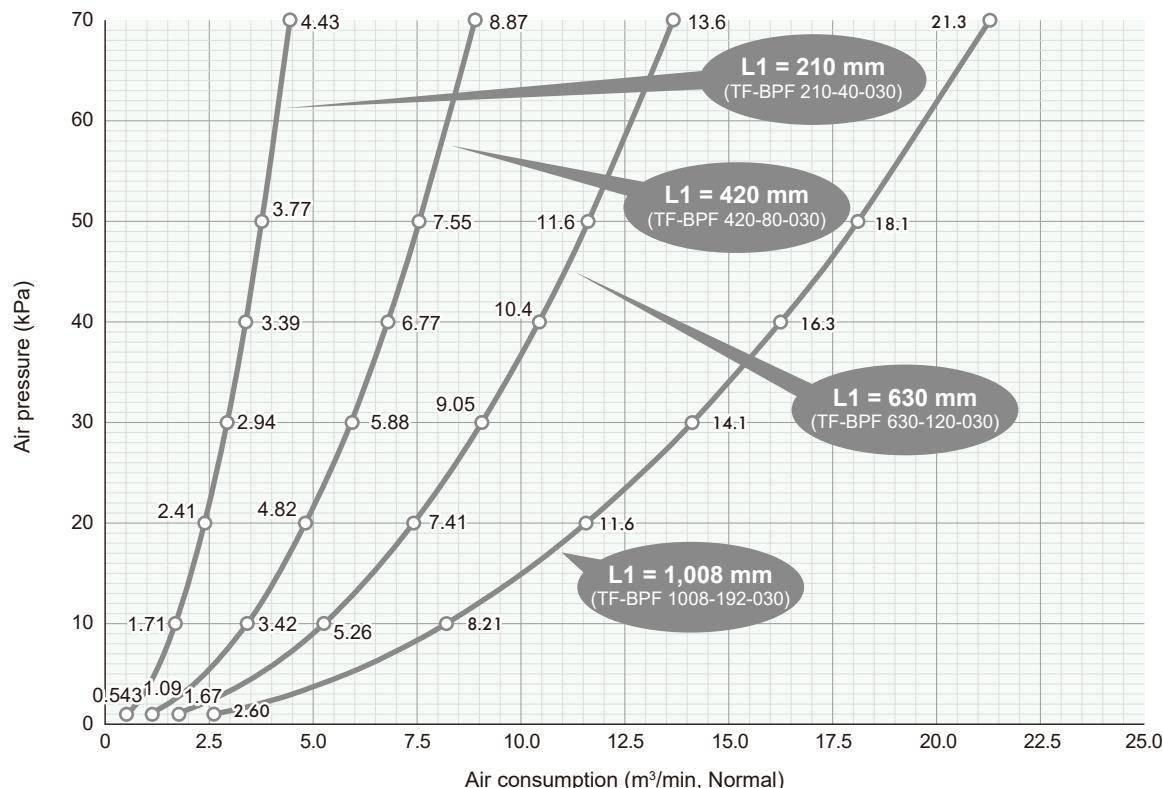
at 100 mm from the nozzle orifice

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



Air Consumption

L1 = Length of nozzle tips (see page 60)



Blower air

HOW TO ORDER

Please let us know the required length of nozzle tips when inquiring or placing an order.
Inquiry drawing form is available to verify dimensional specifications.

Blower air nozzle: Round jet

TAIFUJet
TF-BR

Blower air

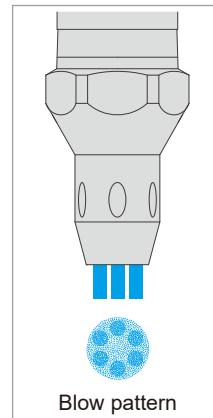
Plastic



Metal



For blowers



- 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



Weight
Plastic: 8 g, Metal: 20 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)



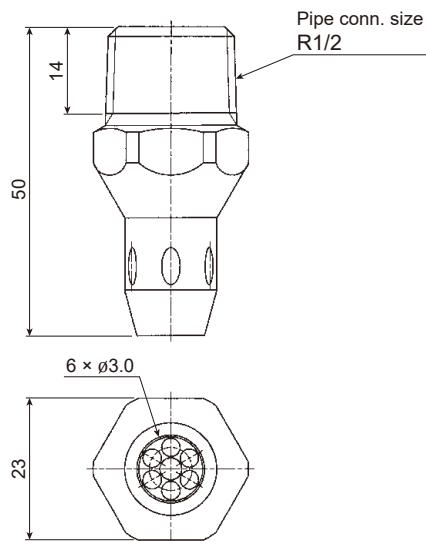
Noise level
86 dBA at 30 kPa



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

Drawing

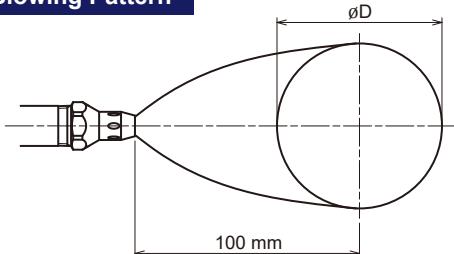
- 1/2M TF-BR 6-030 ABS
- 1/2M TF-BR 6-030 A5052



3D CAD models

Unit: mm

Blowing Pattern



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

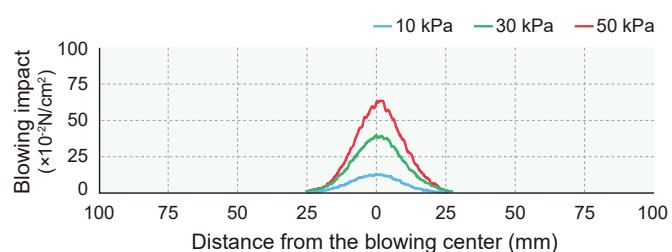
Noise Level at a distance of 1,000 mm

Background noise: 46 dBA

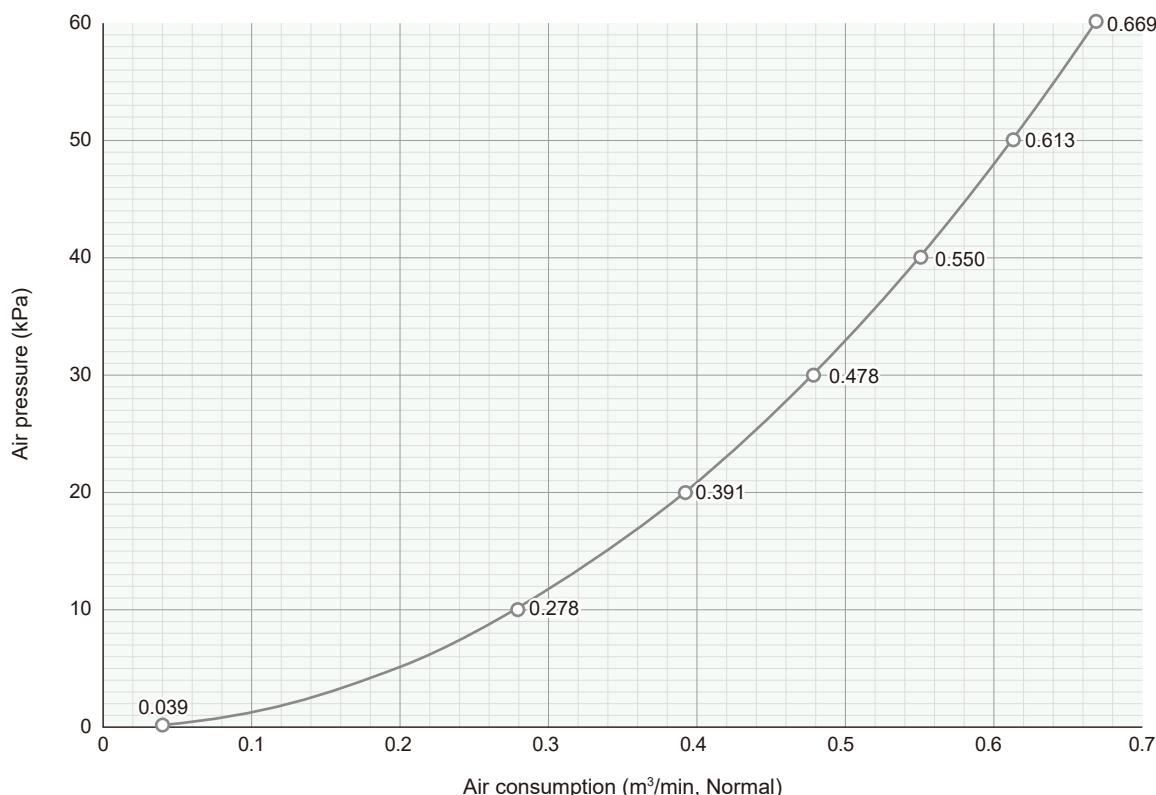
Pressure (kPa)	Noise level (dBA)
10	83
30	86
50	88

Blowing Impact Distribution

at 100 mm from 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

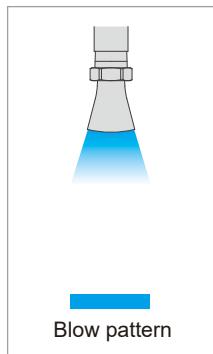
Material

- ABS
- A5052



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
0.7 MPa (100 psi)

Max. temperature
400°C (750°F)

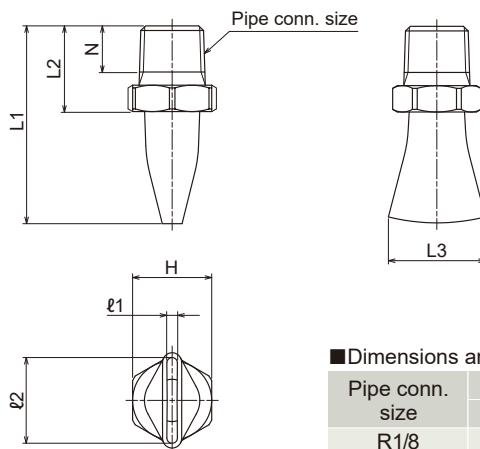
Noise level* (at 30 kPa)
Size R1/8: 75 dBA, Size R1/4: 76 dBA

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. Contact us for compressor use.

Drawing

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

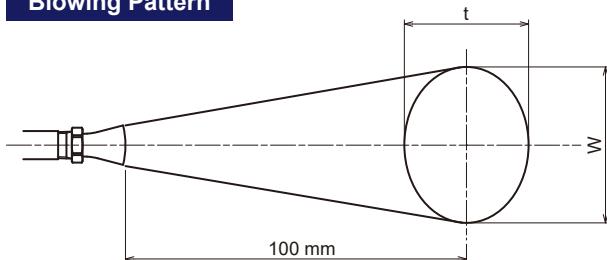


3D CAD models

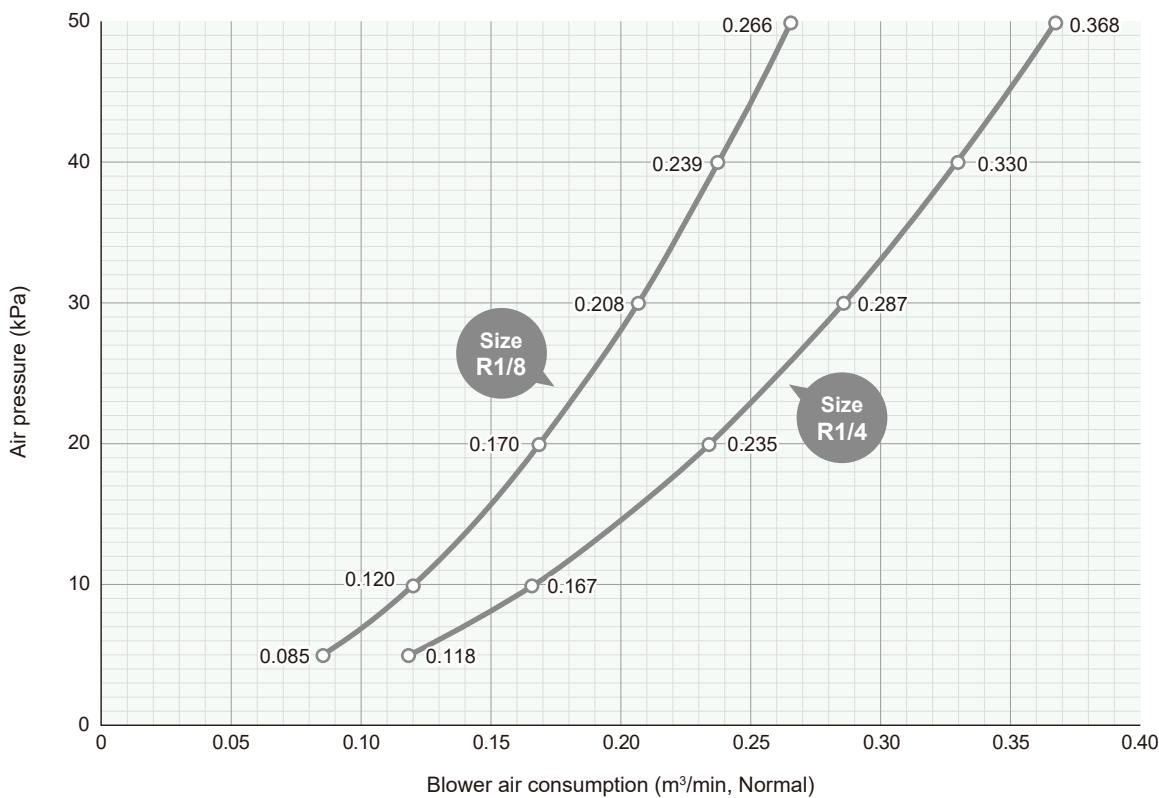
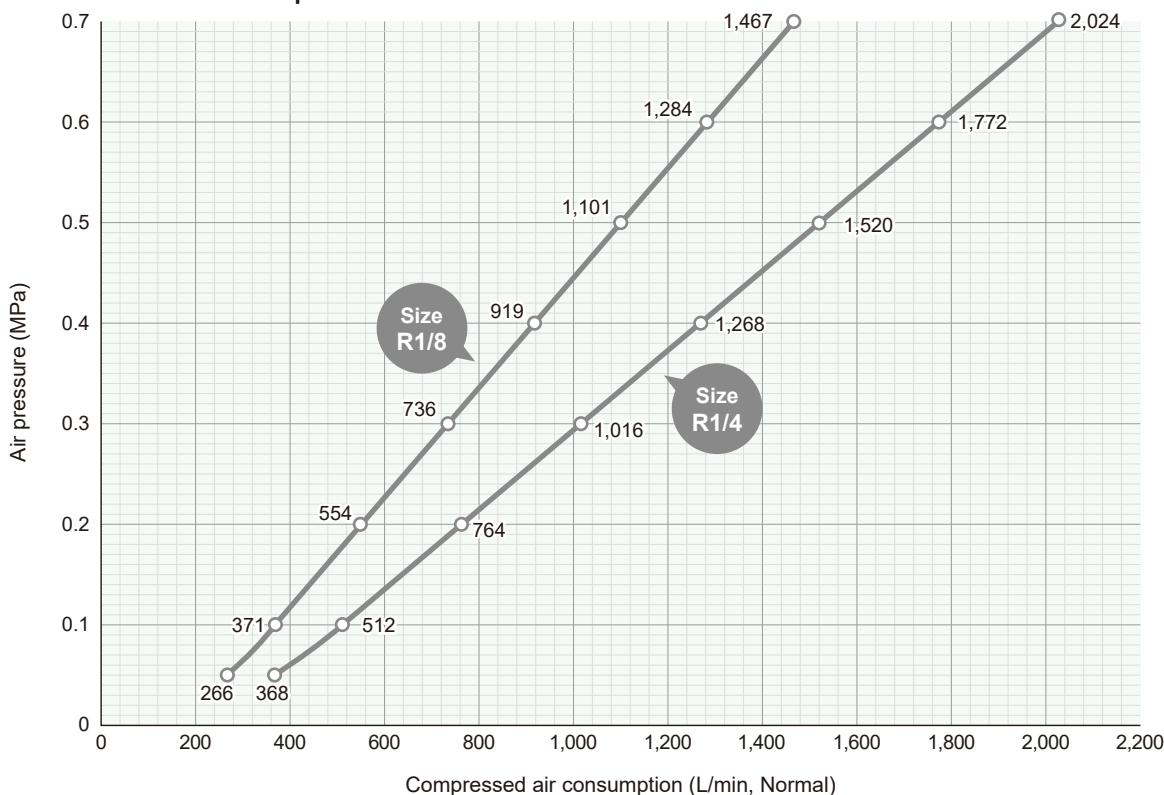
Dimensions and weight

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

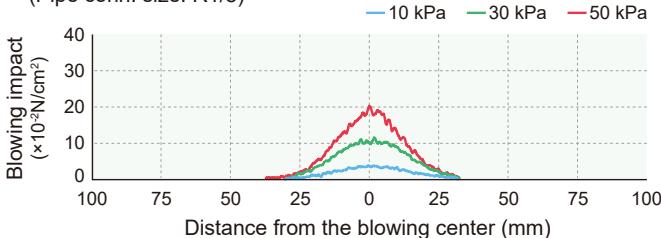
Background noise: 46 dBA

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

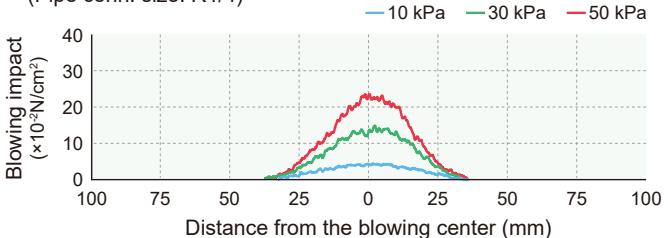
Pipe conn. size	Pressure (kPa)	Noise level (dBA)
R1/4	10	75
	30	76
	50	79

Blowing Impact Distribution at 100 mm from 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**

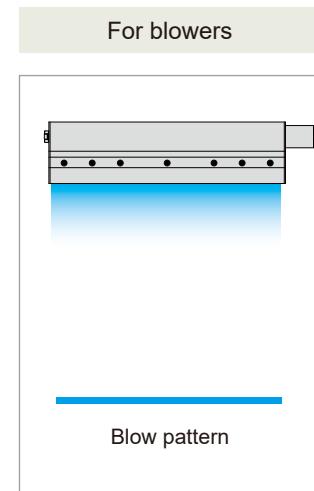
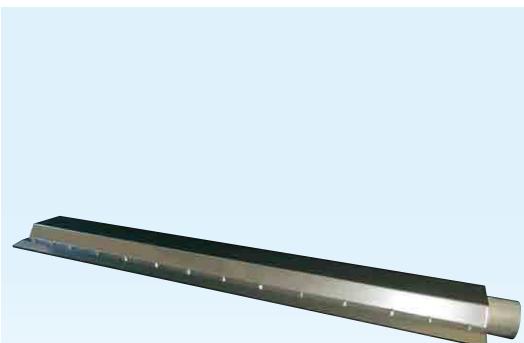
Please use these product codes for inquiries and orders.

Pipe connection size: R1/8

1/8M SAP 13-15 S304

Pipe connection size: R1/4

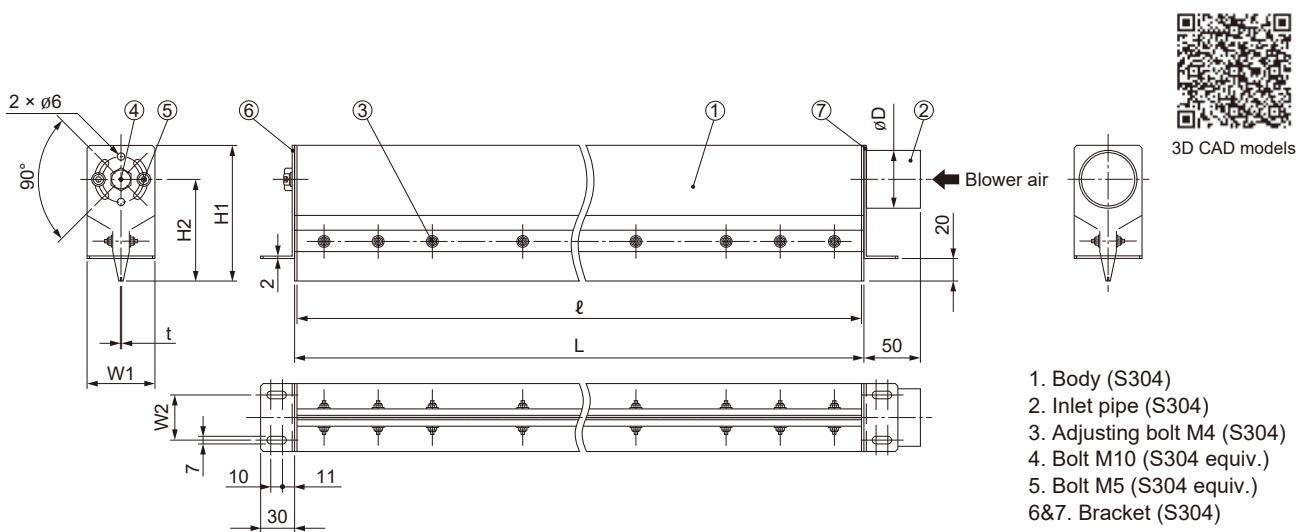
1/4M SAP 17-15 S304



- 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

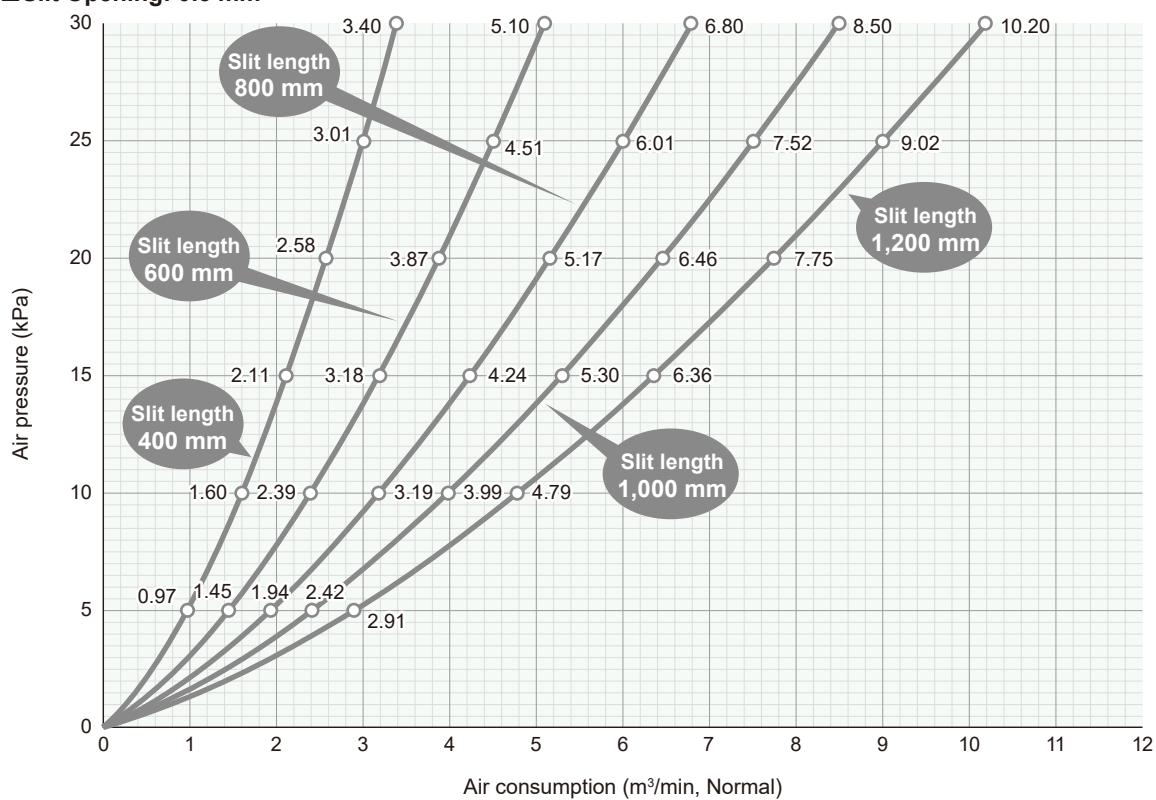
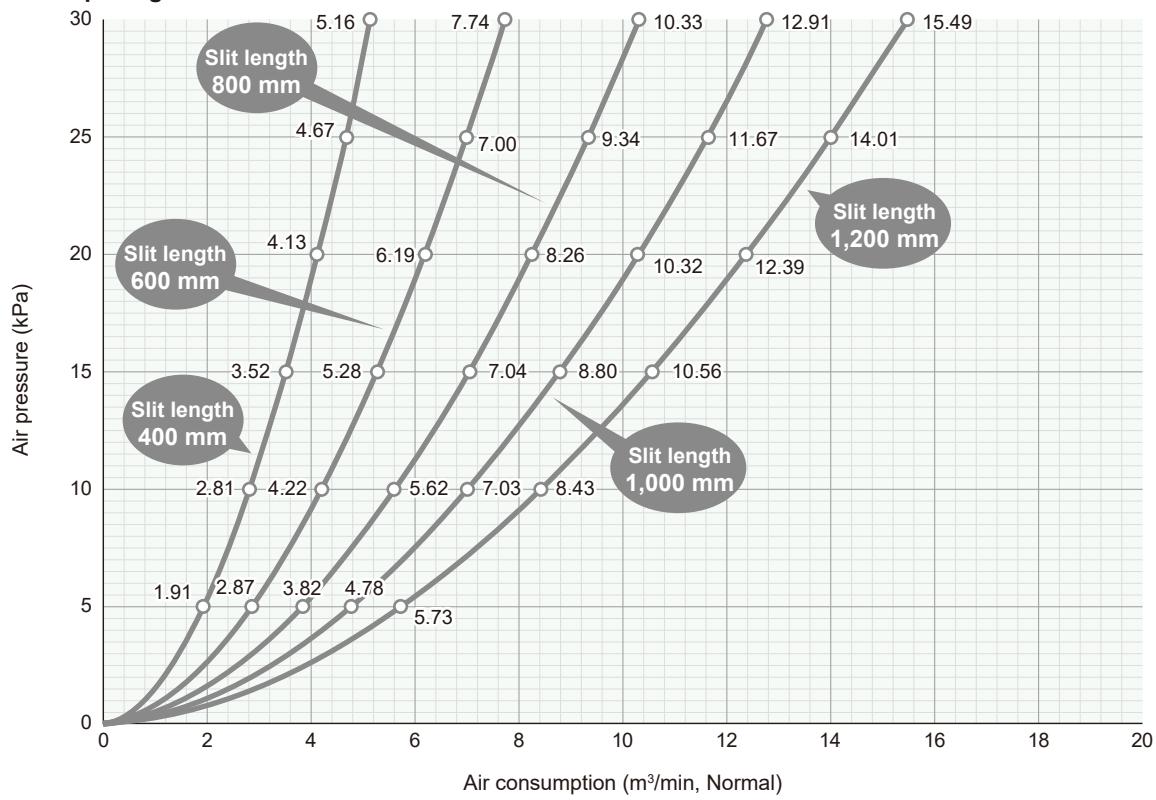
Drawing



Dimensions and weight

Air inlet type	Slit length ℓ (mm)	Slit opening t (mm)	Outer dimensions (mm)						Weight ² (kg)
			L ¹	H1	H2	W1	W2	ϕD	
D38	400	0.5	404						1.9
	600		604						2.7
	800		804						3.5
	1,000		1,004						4.3
D50	1,200		1,204						5.9
D38	400		404						1.9
D50	600		604						3.2
	800		804						4.1
D65	1,000		1,004						6.2
	1,200		1,204						7.4

¹ Customizable total length from 250 to 1,950 mm. ²The 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

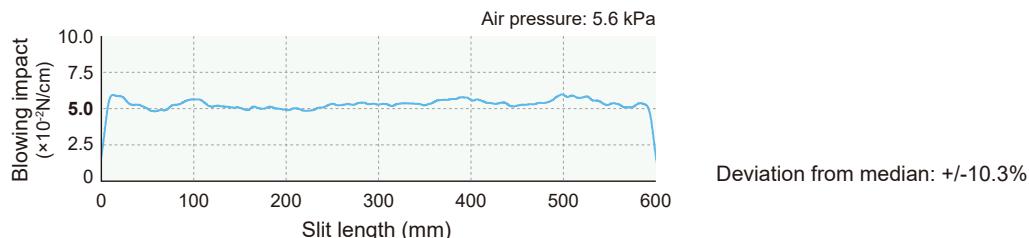
■SLNB 800×1.0

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

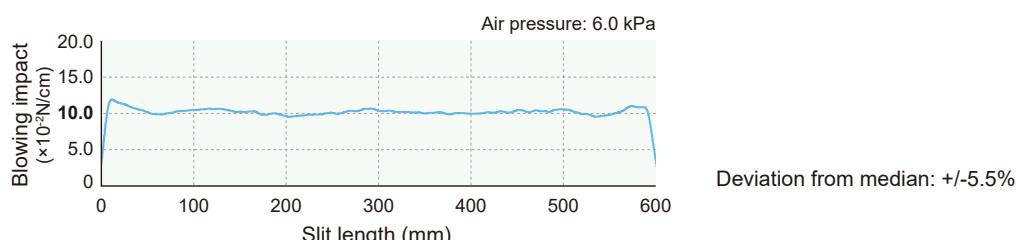
Pressure (kPa)	Noise level (dBA)
5	82
10	87
15	90
20	90

Blowing Impact Distribution at 5 mm from the nozzle orifice**■SLNB 600×0.5**

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

**■SLNB 600×1.0**

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

**HOW TO ORDER**

Total length can be tailored to your needs within the customizable range (see *1 on page 68).

Inquiry drawing form is available to verify dimensional specifications.

Contact us for details.

Note: SLNB Series with dimensions other than those listed on page 68 and any optional heat-resistant types will be made-to-order.

Universal ball joint adaptor

UT

Plastic



Metal



Materials:

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

Materials:

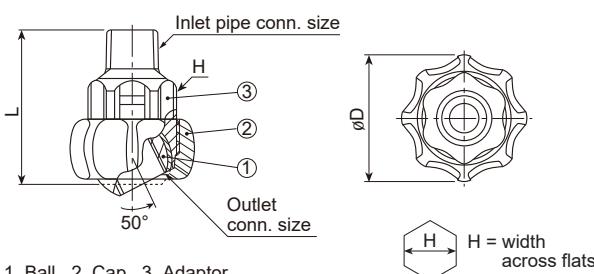
S303 or B (brass)
Optional material: S316 or others

- Allows for precise alignment and adjustment of the nozzle direction within a 50° range after installation.
- 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).

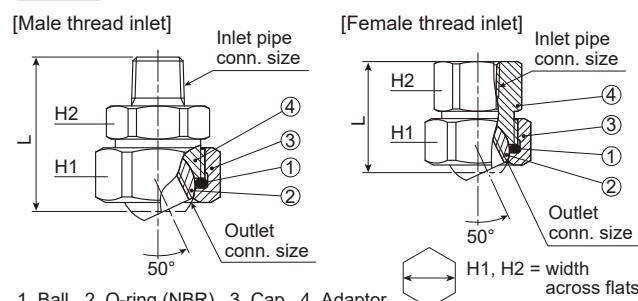
Photo is a UT Ball Joint with a nozzle attached.

Drawing

Plastic



Metal



Dimensions and weight

Ball joint code (Inlet × Outlet)	Inlet pipe conn. size	Outlet 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



3D CAD models

Dimensions and weight

Ball joint code (Inlet × Outlet)	Inlet pipe conn. size	Outlet 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

To inquire about or order a specific ball joint please refer to this coding system.

Plastic

<Example> UT 1/4M × 1/8F FRPP-IN

UT

1/4M

×

1/8F

FRPP-IN

Inlet Pipe
Connection Size*

- 1/8M
- 1/4M
- 3/8M

Outlet
Connection Size*

- 1/8F
- 1/4F

Metal

<Example> UT 1/4M × 1/4F S303

UT

1/4M

×

1/4F

S303

Inlet Pipe
Connection Size*

- 1/8M
- 1/4M
- 3/8M
- 1/2M
- 3/4M

Outlet
Connection Size*

- 1/8F
- 1/4F
- 3/8F
- 1/2F
- 3/4F

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 4.0 MPa.

Plastic UT Use UT-FRPP only at pressures below 1.0 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.

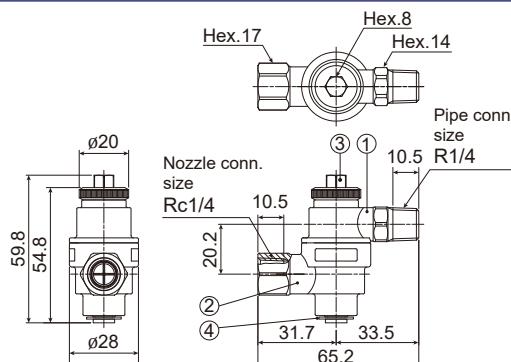
Drawing

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

O-ring (NBR)

Weight: 146 g

Unit: mm



HOW TO ORDER

Use this product code for inquiries/orders.

WUT 1/4M × 1/4F SCS13

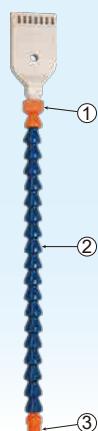


- Bolt may loosen due to vibration, if not securely tightened with a torque-wrench at 6 N m.
- Max. operating pressure: 3 MPa • Max. temperature: 90°C (190°F)

Flexible tubes

FT

Photo is FT series tube with TAIFUJet attached.



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)

Number of segments:
18 EA.¹

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

Dimensions and weight

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

¹Total 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.



3D CAD models

HOW TO ORDER

To inquire about or order a specific tube, please refer to 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 Nozzle³

- 1/8F
- 1/4F

Total Length - Number of Segments

- 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

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 - Number of Segments

- 71-2 ● 131-6
- 190-10 ● 249-14
- 309-18

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.



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).

Reference Data

Conversion of Units

Length	mm	cm	m	in	ft	Weight 1 kg (1,000 g) ≈ 2.205 lb 1 lb ≈ 0.454 kg (454 g)
	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}	
	1,000	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	

Area	cm ²	m ²	in ²	ft ²
	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

Volume	L (Liter)	m ³ (kL)	ft ³	Imperial gal.	U.S. gal.
	1	0.001	3.53×10^{-2}	0.220	0.264
	1,000	1	35.3	220	264
	28.3	2.83×10^{-2}	1	6.23	7.48
	4.55	4.55×10^{-3}	0.16	1	1.2
	3.79	3.79×10^{-3}	0.134	0.833	1

Pressure	MPa	kPa	bar	kg/cm ²	psi (lb/in ²)	atm	mmH ₂ O (mmAq)
	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

Flow rate	L/min	m ³ /min	m ³ /hr	in ³ /hr	ft ³ /hr	Imperial gal./min	U.S. gal./min
	1	0.001	0.06	3.66×10^3	2.12	0.22	0.264
	1,000	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



Digital Catalogs

Scan here to access
all our digital catalogs.



“The Fog Engineers”

H. IKEUCHI & CO., LTD.



ISO9001: 2015 certified
(H. IKEUCHI & CO., LTD., Japan only)

Global Network



Headquarters

Daiichi kyogyo Bldg., 1-15-15, Awaza, Nishi-ku, Osaka 550-0011, Japan
Tel: 81-6-6538-4015 Fax: 81-6-6538-4022
Email: overseas@kirinoikeuchi.co.jp
URL: <https://www.dry-fog.com/en/>

Overseas network

IKEUCHI USA, INC.

4722 Ritter Avenue, Blue Ash, OH 45242, USA
Tel: 1-513-942-3060
sales@ikeuchi.us
<https://www.dry-fog.com/en/>

PT. IKEUCHI INDONESIA

Ruko Rodeo Drive, Jl. Hollywood Boulevard Blok B6 No. 18 & 19,
Jababeka, Bekasi, Jawa Barat 17530 Indonesia
Tel: 62-21-8938-4201 (or 4202)
sales@ikeuchi.id
<https://www.ikeuchi.id/>

IKEUCHI (SHANGHAI) CO., LTD.

Room C, 21F, Electrical & Mechanical Bldg.,
600 Hengfeng Road, Shanghai 200070, P.R.China
Tel: 86-21-6140-9731
mist@kirinoikeuchi.com
<http://www.kirinoikeuchi.com/>

Tianjin Branch Tel: 86-22-2320-1676
Shenzhen Branch Tel: 86-755-8525-2221
Wuhan Branch Tel: 86-27-8558-8299

IKEUCHI EUROPE B.V.

Merwedeweg 6, 3621 LR, Breukelen, The Netherlands
Tel: 31-20-820-2175
info@ikeuchi.eu
<https://www.ikeuchi.eu/>

SIAM IKEUCHI CO., LTD.

909 Ample Tower Bldg. 8FL., Unit 8/2, 8/3, Debaratana Road,
Bangna Nuea, Bangna, Bangkok 10260 Thailand
Tel: 66-2-348-3801 Fax: 66-2-348-3802
thai@ikeuchi.co.th
<https://www.ikeuchi.co.th/>

IKEUCHI TAIWAN CO., LTD.

11F-1, No.27, Sec.1, Chung Shan N. Road, Taipei 10441,
Taiwan, R.O.C.
Tel: 886-2-2511-6289 Fax: 886-2-2541-6392
sales@ikeuchi.com.tw
<http://www.ikeuchi.com.tw/>