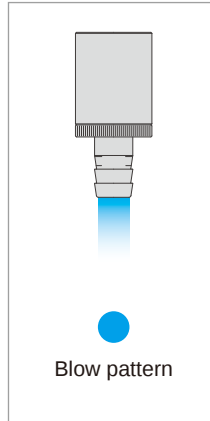




For compressors



- 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)

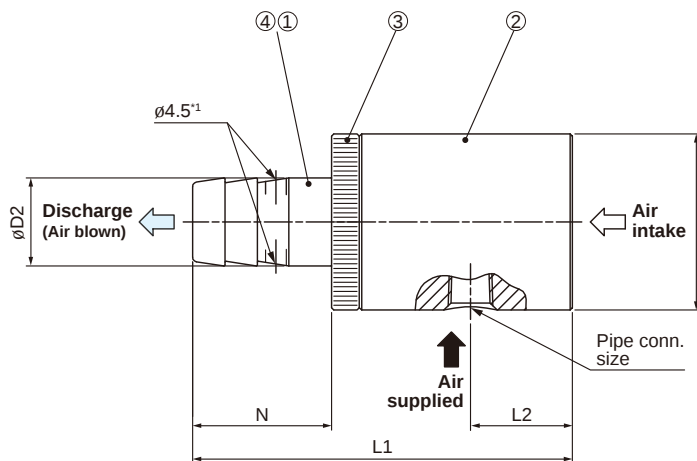


Noise level
83 dBA or less at 0.3 MPa

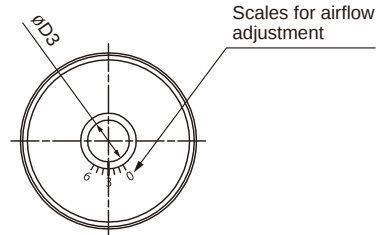


Air consumption
150–750 L/min, Normal at 0.3 MPa (with air flow dial set to 3)

Drawing



3D CAD models



Materials

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

Dimensions and weight

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

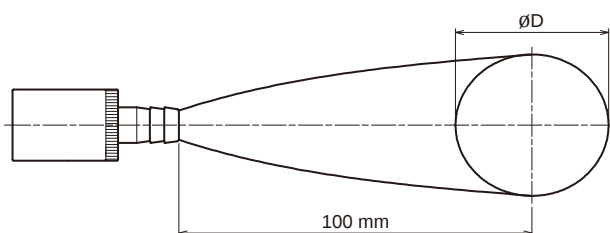
*1 Holes for securing the nozzle body with a $\phi 4.0$ rod for air flow adjustment.
EJA750 has holes of $\phi 6.5$ for a $\phi 6.0$ rod.

Noise Level at a distance of 1,000 mm

Background noise: 35 dBA

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

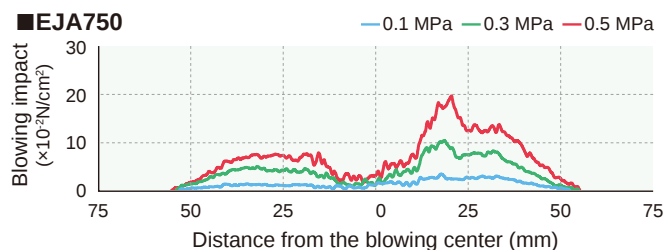
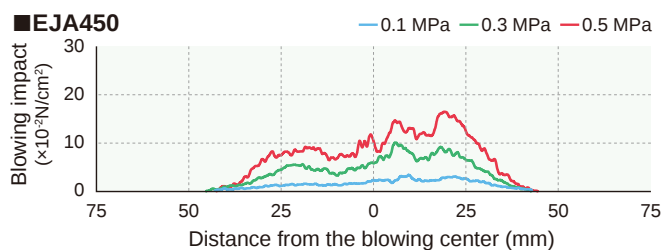
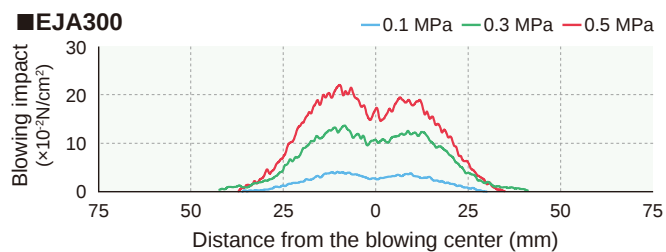
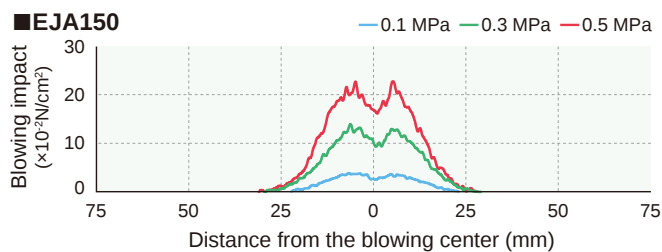
Capacity code	Pressure (MPa)	Noise level (dBA)
EJA750	0.1	70
	0.3	83
	0.5	89

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

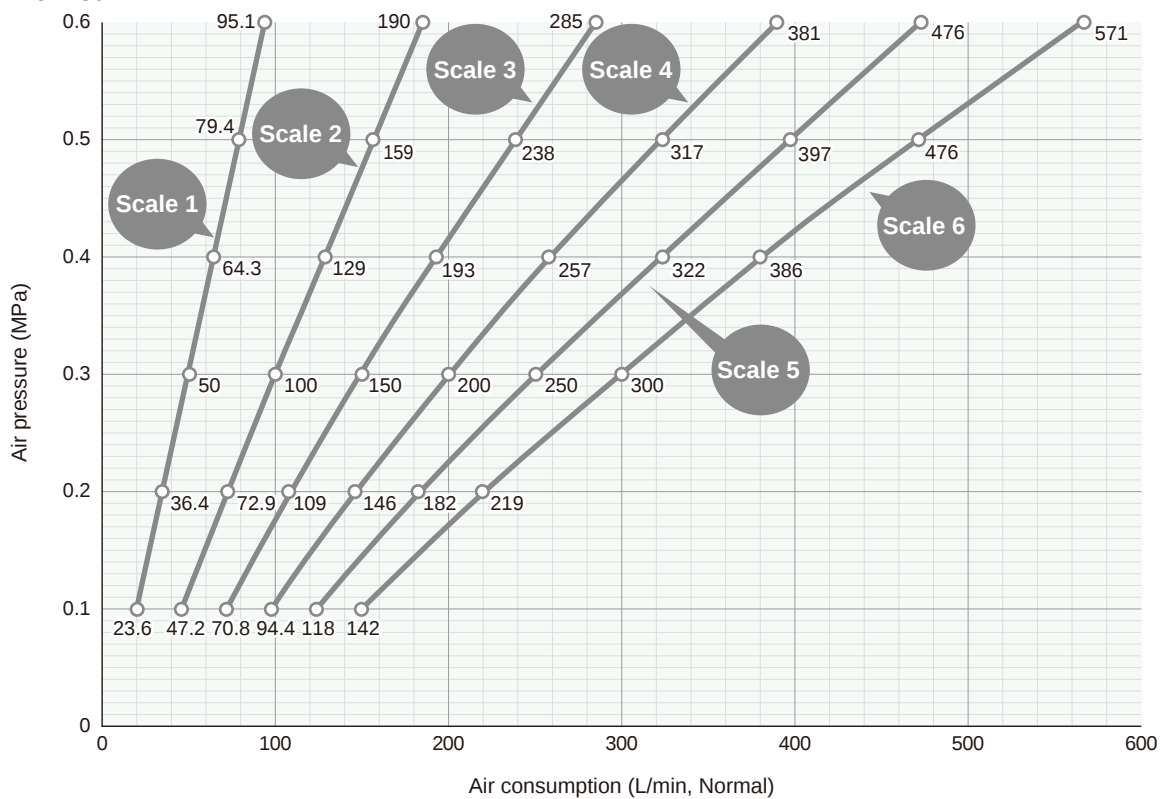
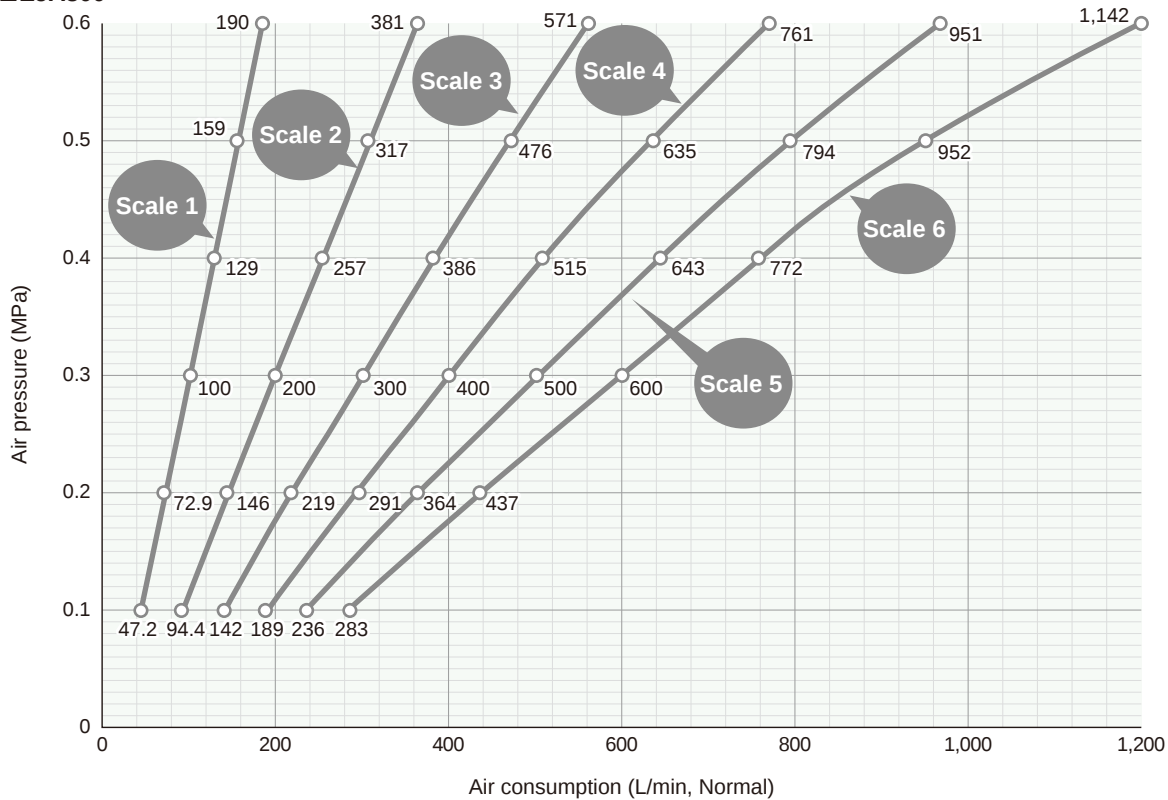
at 100 mm from the nozzle orifice, measured with the air flow adjustment dial set to 3



Air Consumption

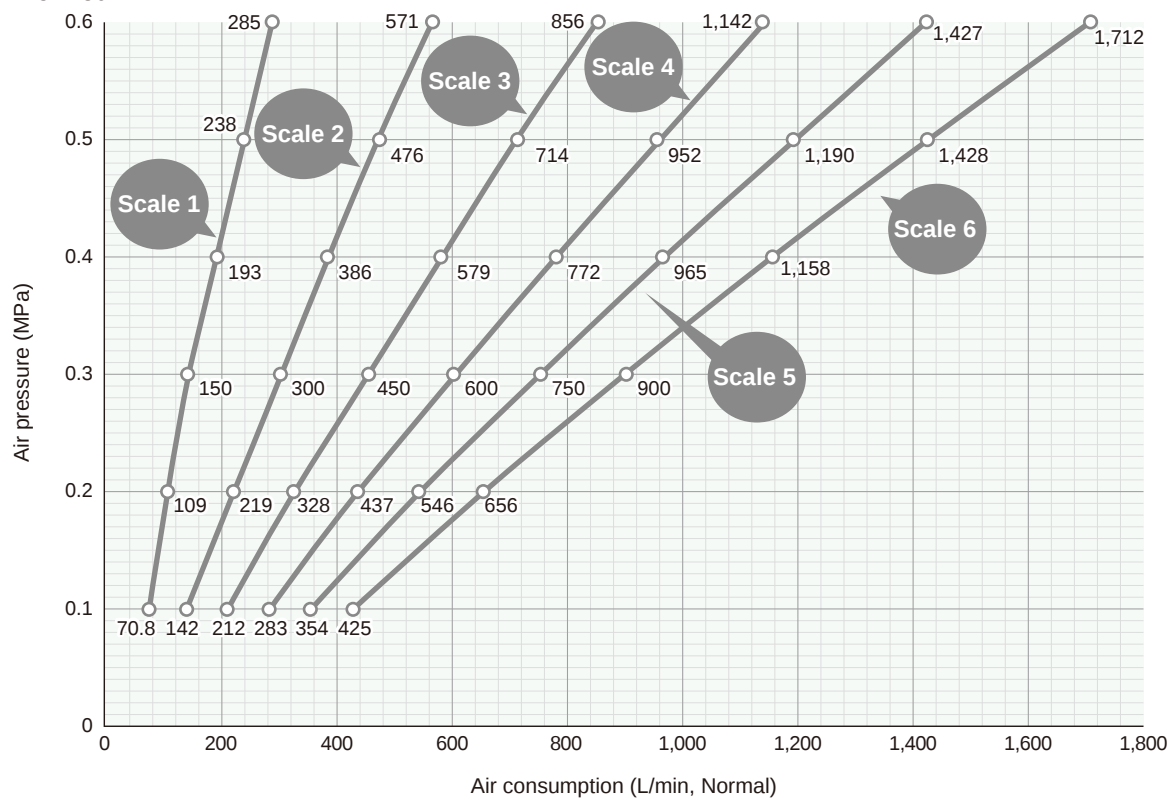
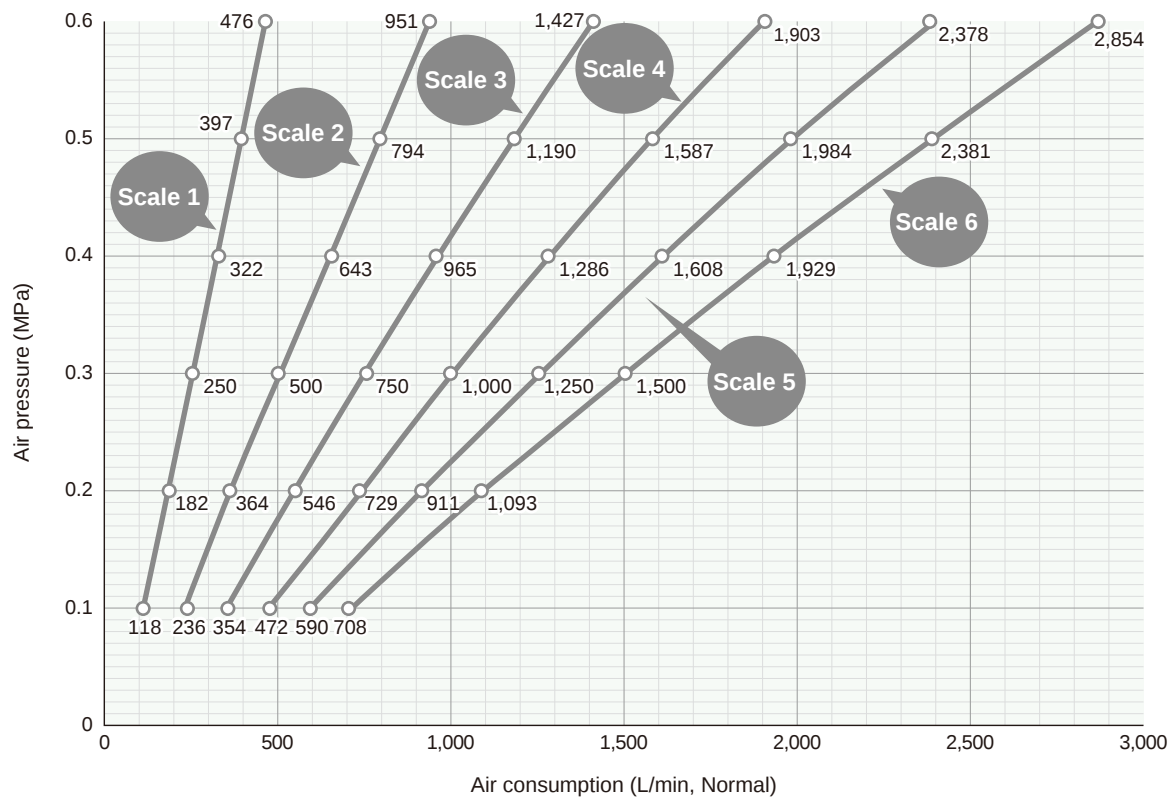
Scales 1–6 are the dial markings on the nozzle for air flow adjustment.

Compressed air

EJA150**EJA300**

Air Consumption

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

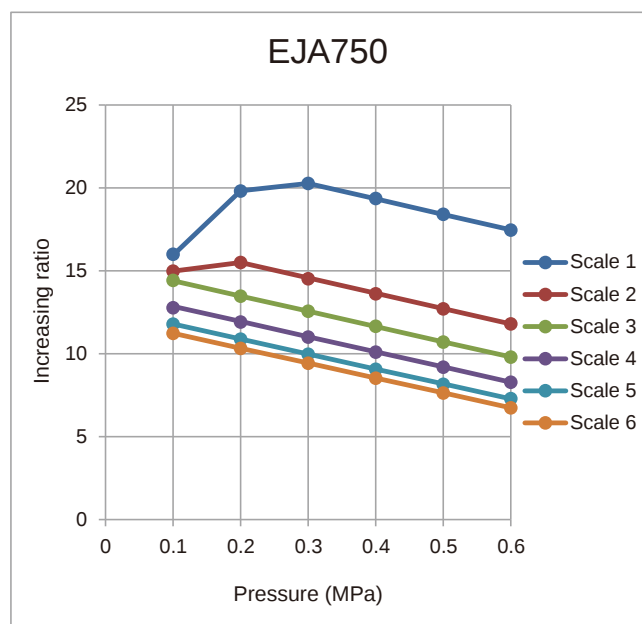
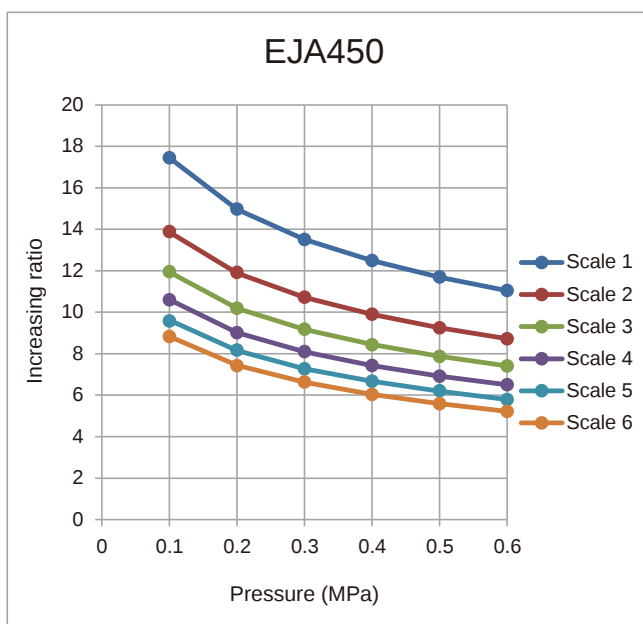
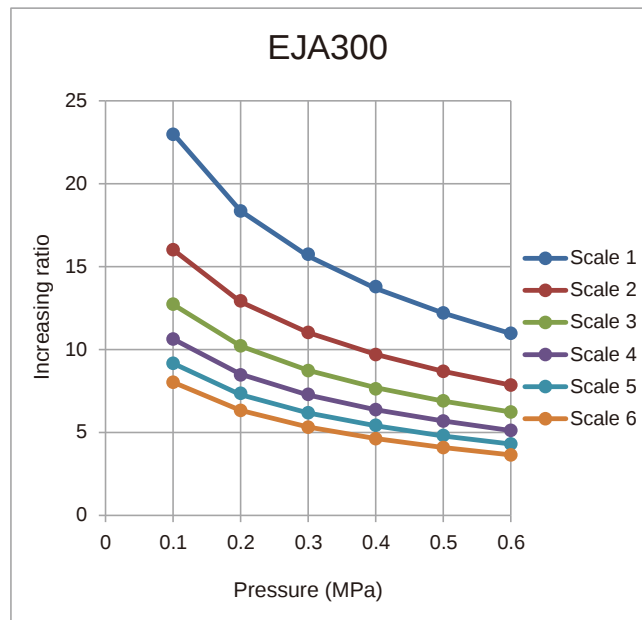
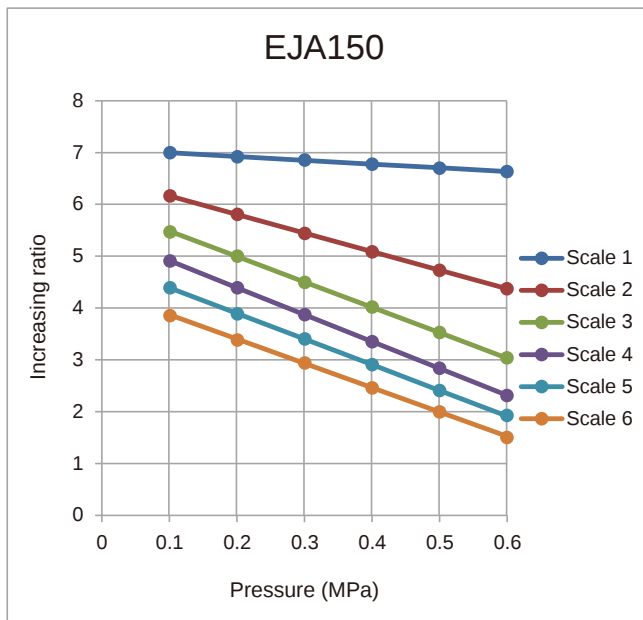
EJA450**EJA750**

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.

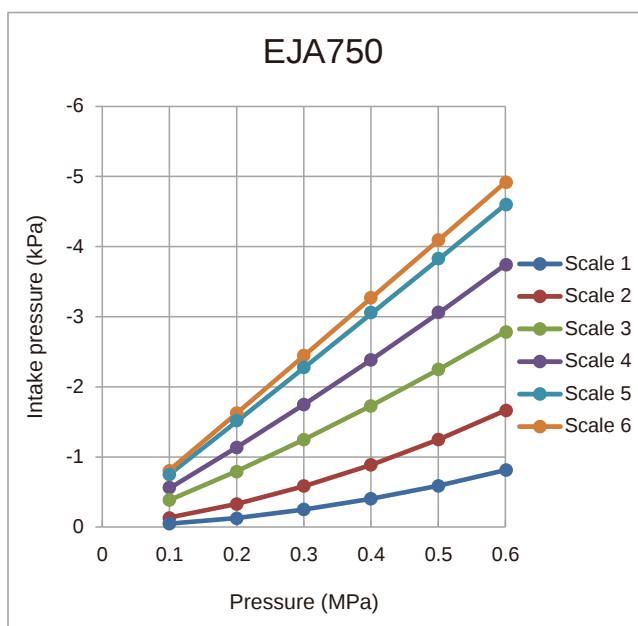
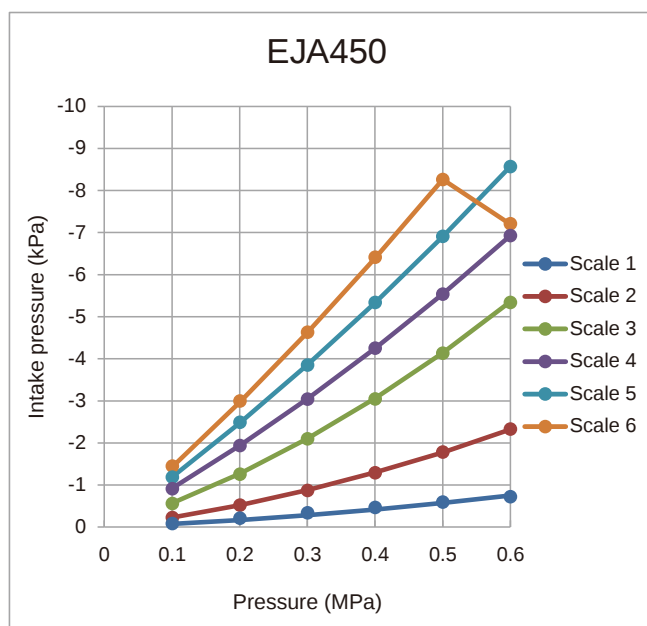
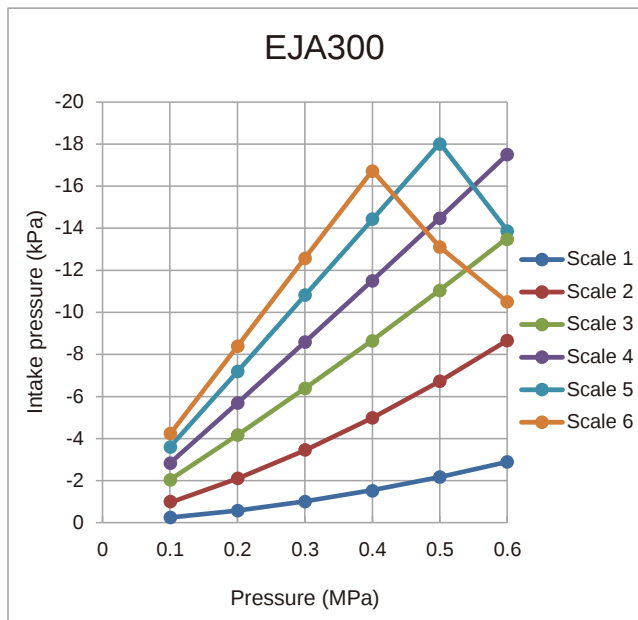
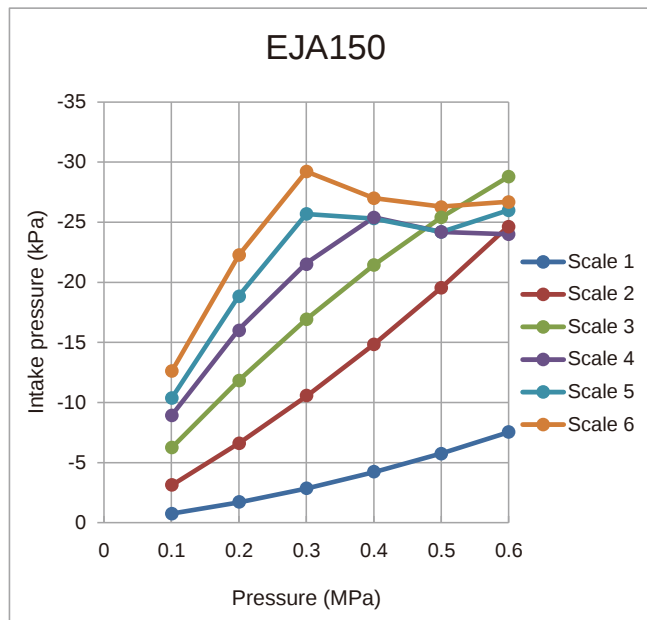


Intake Air Pressure

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

EJA 300

S303

Pipe Conn. Size*

Capacity Code

- 1/8F ● EJA150
- 1/4F ● EJA300
- 3/8F ● EJA450 ● EJA750

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

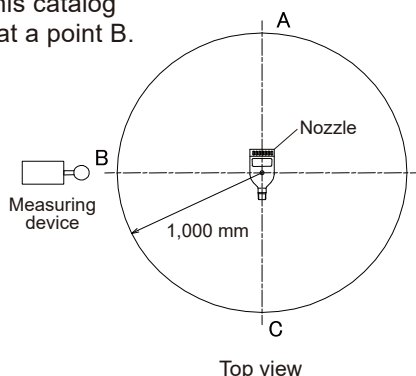
Technical Information

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.

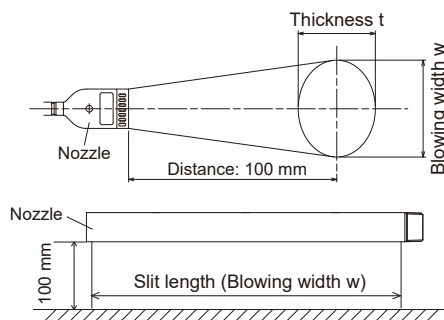


Blowing Pattern Measurement

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.



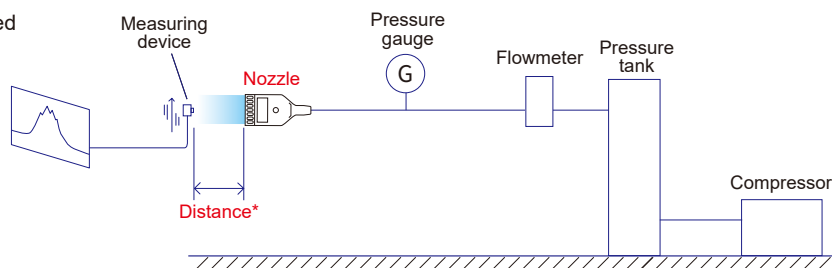
Blowing Impact Measurement

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.

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

	Material code	Material
Metals	S303	Stainless steel 303
	S304	Stainless steel 304
	S316	Stainless steel 316
	S316L	Stainless steel 316L
Rubbers	B	Brass C3604
	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

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	PPS
Weight	4 g	9 g	38 g	30 g	140 g	62 g
Max. operating pressure	0.7 MPa	0.7 MPa	1.0 MPa	0.7 MPa	1.0 MPa	0.7 MPa
Max. temperature	120°C [240°F]	80°C ² [170°F]	400°C [750°F]	80°C ² [170°F]	400°C [750°F]	80°C ² [170°F]
Noise level at 0.3 MPa ¹	76 dBA	79 dBA	60–82 dBA	77 dBA	82 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	1,250 NL/min
Features	• Compact • Low noise level • Uniform impact distribution			• 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	Aluminum A5052
Weight	2 g	7 g or 12 g	800 g	7.5 g or 19 g	8 g	20 g
Max. operating pressure	0.7 MPa	1.0 MPa	1.0 MPa	1.0 MPa	100 kPa [0.1 MPa]	100 kPa [0.1 MPa]
Max. temperature	60°C [140°F]	400°C [750°F]	216°C [420°F]	400°C [750°F]	80°C [170°F]	150°C [300°F]
Noise level at 0.3 MPa ¹	78 dBA	71–87 dBA	83–91 dBA	66–84 dBA	86 dBA	86 dBA
Air consumption at 0.3 MPa ¹	245 NL/min	157–627 NL/min	1,151–2,632 NL/min	35–215 NL/min	478 NL/min	478 NL/min
Features	• Low noise level • Powerful, high impact air stream		• Low noise level • High volume and powerful air flow	• Targeted, high impact solid air stream	• Low noise level • Powerful, high impact air stream • Minimal air use	

Type	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	

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	Blower
	PVC	S304	S304	S304	S303	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
	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]
	*3	*3	*3	90 dBA at 20 kPa ⁴	70–94 dBA	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
	• 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

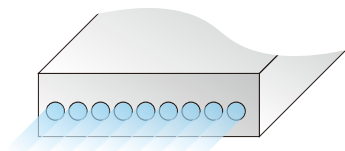
¹ The blower type (nozzle using blower air) was measured at 30 kPa. ² Heat resistance depends on the pressure applied. ³ Inquire with us.

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

Type of Nozzle Orifices

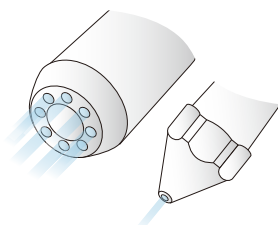
Flat Jet

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.

