

Air blow nozzles

Energy saver

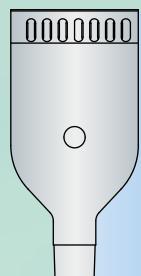
BNE Series



Metal flat type renewed to be compact and lightweight!

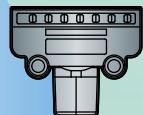


- Energy-saving Air Blow Nozzle **Reduces** flow consumption **by approx. 45%**
- Available in two jet types (flat and round) and two materials (**resin/metal**) available.
- **Silent design** for a quiet work environment.



Conventional model

While maintaining performance, **73% reduction in weight**
61% reduction in overall length



BNE-8S10FS

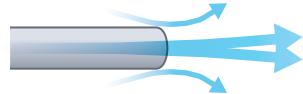
Can be mounted even in tight spaces.



Energy saving

Reduces consumption flow rate by about 45% to contribute to carbon neutrality

With an open pipe



With an energy-saving-type (flat-type)
The nozzle pulls in surrounding air from both the inside and the outside to create a more powerful, amplified airflow.



Uniformity

Adopts a special structure that enables uniform force along the width of the injection



Flat Type

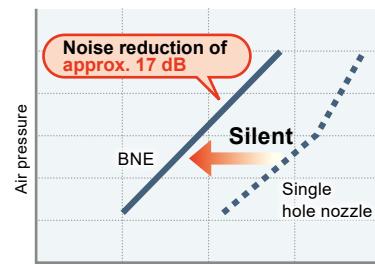


Round-type



Low noise

A work environment-friendly silent design





Air Blow Nozzle (Energy-saving Type)

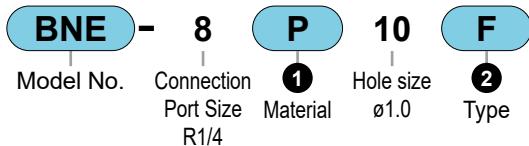
BNE Series

● Connection Port Size: R1/4



- An energy-saving air nozzle that amplifies airflow by drawing in ambient air.
- A flat type for a uniform blow across a wide area, and a round type for a targeted, pinpoint blow are available. The evenly distributed air jet provides high blow efficiency and reduces air consumption.
- Both resin and metal types are available, allowing selection based on the application and environment.
- Low-noise design for a quiet work environment.

Model No. Notation Method



① Material

Code	Content
P	Resin
S	Metal

② Type

Code	Content
F	Flat type (P resin)
FS	Flat type (S For metal)
R	Round-type

Specifications

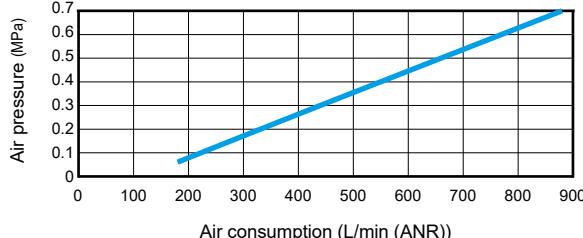
Item	BNE-8P10F	BNE-8S10FS	BNE-8P10R	BNE-8S10R
Maximum Operating Pressure MPa	0.7	1.0	0.7	1.0
Heat resistance temperature °C	120	400	60	400
Connection Port Size R		1/4		
Weight g	9	38	2	12
Hole diameter mm			1.0	
Number of holes Individual	16	16	8	8
Air consumption *1 L/min (ANR)	440			245

*1: Air consumption is the reference value of atmospheric pressure conversion when the standard pressure is 0.3 MPa.

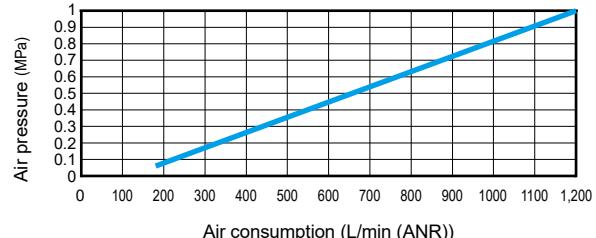
Air consumption characteristics *The air consumption characteristics graph gives reference values but does not guarantee the values.

Flat Type

● BNE-8P10F

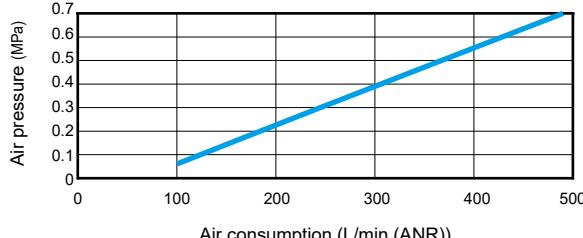


● BNE-8S10FS

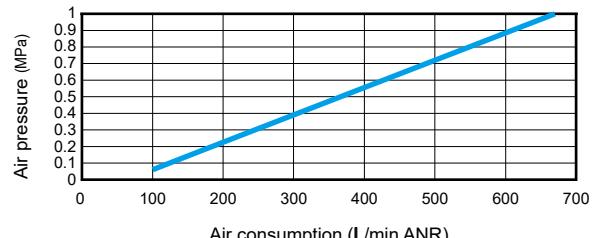


Round-type

● BNE-8P10R



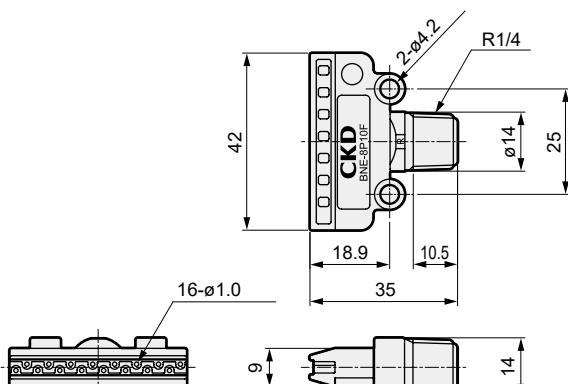
● BNE-8S10R



External Dimension Drawings

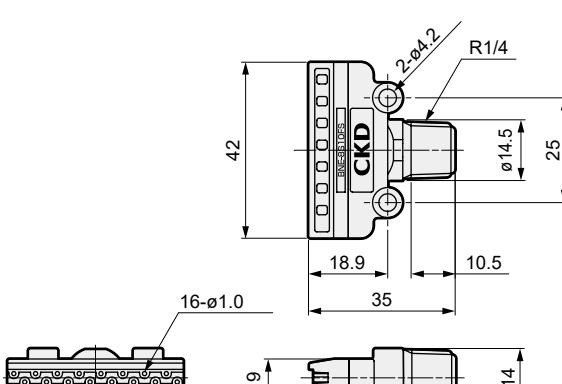
■ Flat Type

●BNE-8P10F



Material: PPS

●BNE-8S10FS

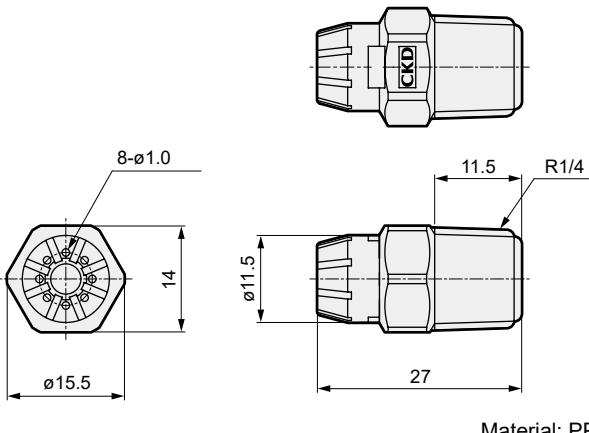


Material: Stainless steel 316L

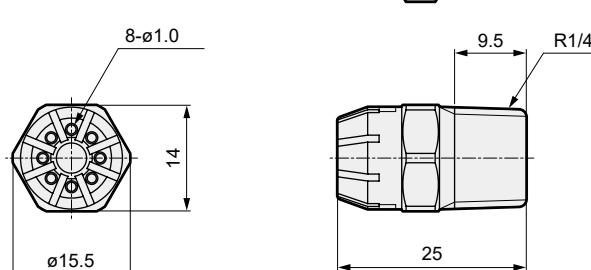
■ Round-type

●BNE-8P10R

●BNE-8S10R

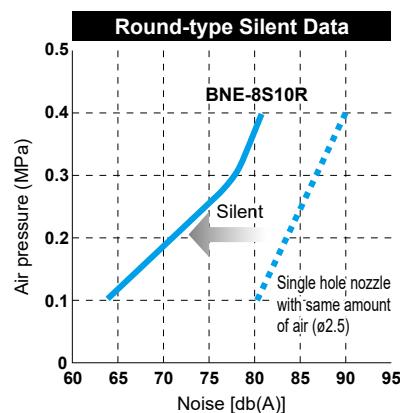
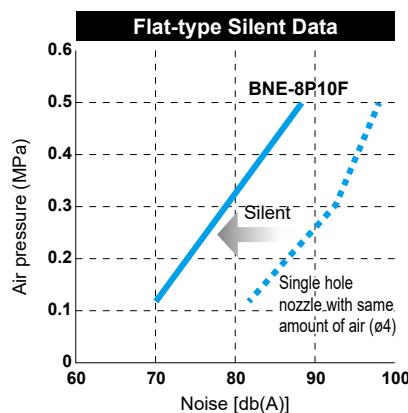
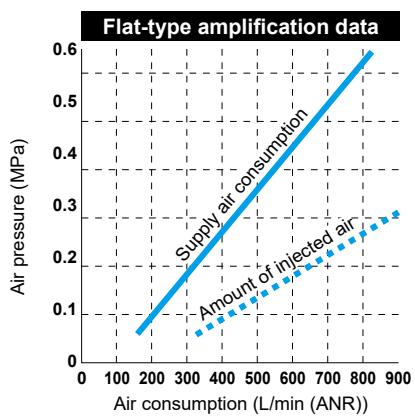


Material: PP



Material: Stainless steel 316L

(Reference) Amplification effect characteristic (Reference) Silent effect characteristic



●Measurement position: 1 m ahead of nozzle (1 m high)

●Background noise value: 58 dB (A)

⚠ Read the "Safety precautions" and "Instruction Manual" on the CKD Components Product Site (<https://www.ckd.co.jp/en/>) before use.



Related Products

Pulsed blow valve BNP Series

- Reduces compressed air by 75% compared to continuous blow
*A reference value under our test conditions.
- Available in two types: unit type and gun type
Can be used selectively according to the application.
- Easy adjustment
Frequency can be adjusted with one turn of the adjustment knob.
- Thin design allows for installation even in narrow spaces
A mounting plate is also available as an option (BNP-U).
- No electrical wiring required



Catalog No.CC-1640AA



Compact air blow valve EXA Series

- Achieves large flow rate and low power consumption
By adopting a pilot system that uses a low power consumption (0.6 W) 3-port valve for the actuator, both high flow and low power consumption have been achieved. (Direct PC drive possible)
- Compact and Lightweight
Weight has been reduced by optimizing materials. Furthermore, the volume has been reduced by up to 30% and the weight by approximately 70% compared to previous CKD models.
- Easy Piping Connection
The adoption of a body with one-touch fittings contributes to a reduction in man-hours. Threaded fittings are also supported.
- Oil-free Specifications (option)
Ideal for environments where oil is prohibited.
- Manifold Type
Achieves diverse piping layouts and contributes to space saving.



Needle valve with adjusting dial DVL Series

- Linear flow characteristics
- Numerical control of flow rate is possible visually
- Use as a speed controller
- Oil prohibited available
- Unrestricted mounting



For details, refer to CKD components product site (<https://www.ckd.co.jp/kiki/jp/en/>) → "Model No."

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