Low Flow Rate Fine Fog Nozzles
Flat Spray —Liquid Pressure Type—

- Flat spray pneumatic nozzle producing fine atomization with a mean droplet diameter of 100 μm or less.*1
- Features large turn-down ratio under liquid pressures of 0.1–0.3 MPa.
- Spray angle of 110°, 80°, or 45°.
- Produces two different spray distributions: uniform spray distribution throughout spray pattern area (when spraying at a low air-water ratio), or a mountain-shaped distribution having gradually tapered edges (at a high air-water ratio).

*1) Droplet diameter measured by laser Doppler method

APPLICATIONS
- Spraying: Mold release agent, lubricant, deodorant, oil, surface treatment agent, rust preventive, honey, insecticide, aqueous urea
- Cooling: Dies, gas, glass, steel plates, steel pieces, moldings, automobile bodies, plastic products
- Moisture control: Paper, flue gas, ceramics, concrete
- Cleaning: Printed circuit boards, glass tubes

STRUCTURE
- Comprising four parts: Nozzle tip, core, cap, and adaptor.
- Materials: S303 (Optional material: S316L)
  Adaptors other than T and N types include the parts made of FKM, NBR, and PTFE.

DIMENSIONS
- See pages 26 and 27 for dimensions and pipe connection sizes of BIM series.

ACCESSORIES
- Mounting bracket is available as an option. See page 29.

FLOW-RATE DIAGRAMS
- How to read the chart
  1. The spray capacity shown is for one nozzle.
  2. Red lines (→) represent compressed air pressures Pa in MPa.
     Blue lines (↓) represent liquid pressures Pw in MPa.
     Green lines (←) represent air-water ratio Qa/Qw.
  3. Figures in ovals indicate Sauter mean diameters (μm) measured by laser Doppler method.
  4. These flow-rate diagrams are applicable to adaptors type T and N only.
  5. Flow-rate diagrams for spray angle code of 110 and 45 are available on request.

BIMV8002

BIMV8004

BIMV80075

BIMV8015

BIMV8022

BIMV with SNB-type adaptor

APPLICATIONS
- Spraying: Mold release agent, lubricant, deodorant, oil, surface treatment agent, rust preventive, honey, insecticide, aqueous urea
- Cooling: Dies, gas, glass, steel plates, steel pieces, moldings, automobile bodies, plastic products
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- Comprising four parts: Nozzle tip, core, cap, and adaptor.
- See pages 26 and 27 for details of adaptors.
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DIMENSIONS
- See pages 26 and 27 for dimensions and pipe connection sizes of BIM series.

ACCESSORIES
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FLOW-RATE DIAGRAMS
- How to read the chart
  1. The spray capacity shown is for one nozzle.
  2. Red lines (→) represent compressed air pressures Pa in MPa.
     Blue lines (↓) represent liquid pressures Pw in MPa.
     Green lines (←) represent air-water ratio Qa/Qw.
  3. Figures in ovals indicate Sauter mean diameters (μm) measured by laser Doppler method.
  4. These flow-rate diagrams are applicable to adaptors type T and N only.
  5. Flow-rate diagrams for spray angle code of 110 and 45 are available on request.

BIMV8002

BIMV8004

BIMV80075

BIMV8015

BIMV8022

BIMV with SNB-type adaptor
## PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Spray angle code</th>
<th>Air consumption pressure code</th>
<th>Air consumption (L/h) &amp; Air consumption (L/min, Normal)</th>
<th>Liquid pressure (MPa)</th>
<th>Spray width*3 (mm)</th>
<th>Mean droplet dia. (μm)</th>
<th>Free passage diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Spray capacity</td>
<td>0.1</td>
<td>0.15</td>
<td>0.2</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Air</td>
<td>Liquid</td>
<td>Air</td>
<td>Liquid</td>
</tr>
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<td></td>
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<td></td>
<td>0.4</td>
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<td>25</td>
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<td>04</td>
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<tr>
<td></td>
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<td>2.0</td>
<td>36</td>
<td>4.7</td>
<td>35</td>
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<td>2.8</td>
<td>45</td>
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<td>15.3</td>
<td>245</td>
<td>24.5</td>
<td>238</td>
<td>39.1</td>
</tr>
</tbody>
</table>

*2) Spray angle measured at compressed air pressure of 0.3 MPa and liquid pressure of 0.1 MPa.

*3) Measured at 100 mm from nozzle.

## HOW TO ORDER

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

**Example** BIMV 11002 S303 + N S303

- **BIMV**
  - Spray angle code: 110
  - Air consumption code: 02
- **S303**
  - Material of nozzle tip: Material of nozzle tip
  - Type of adaptor: N
- **N**
  - Material of adaptor: Material of adaptor

See pages 26 and 27 for details of adaptors.
Low Flow Rate Fine Fog Nozzles
Made of Polypropylene — Liquid Pressure Type —

**BIM-PP**

- Excellent chemical resistance with polypropylene construction.
- Two types, BIMV (flat spray pattern) and BIMJ (full cone spray pattern) are available.
- Liquid pressure type with approx. 0.1 to 0.3 MPa.

### APPLICATIONS
- Spraying: Deodorant, germicide, disinfectant
- Moisture control: Paper, textile, printing
- Cleaning: Printed circuit boards, electrical components

### PERFORMANCE DATA

**BIMV80075** (Flat spray): See pages 13 and 14 for spray performance details of BIMV80075.


### HOW TO ORDER
Please inquire or order for a specific nozzle using these product codes.

**Flat spray type**
BIMV 80075 PP + TPP-IN

**Full cone spray type**
BIMJ 2004 PP + TPP-IN
Spray header equipped with BIMV series nozzles (liquid pressure type) producing fine atomization with a mean droplet diameter of 100 μm or less.*

Combines two pipes for air and water into one rectangular spray header. Compact and easy to install and maintain.

Provides a uniform spray distribution across the entire spray area.

* Droplet diameter measured by laser Doppler method

**APPLICATIONS**

- Spraying: Oil, surface treatment agent
- Cooling: Moldings, steel plates, glass plates, plastic film
- Cleaning: Printed circuit boards

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Header length L2 (mm)</th>
<th>Total length L1 (mm)</th>
<th>Nozzle quantity (Number of BIM nozzles equipped)</th>
<th>Spacing (mm)</th>
<th>Pipe connection size</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nozzle code</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Air L3 Liquid L4 Air</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R3/8 R1/4 R3/8 R1/4</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>1,000</td>
<td>1,100</td>
<td>100</td>
<td>10 900 50</td>
<td>R3/8 R1/4 R3/8 R1/4</td>
<td>S303</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200</td>
<td>5 800 100</td>
<td>R1/2 R3/8 R1/2 R3/8</td>
<td>S304</td>
</tr>
<tr>
<td>2,000</td>
<td>2,100</td>
<td>100</td>
<td>20 1,900 50</td>
<td>R3/8 R1/4 R3/8 R1/4</td>
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<td></td>
<td>200</td>
<td>10 1,800 100</td>
<td>R3/8 R1/4 R3/8 R1/4</td>
<td></td>
</tr>
</tbody>
</table>

**DRAWING**

Air/Liquid inlet position type [A]

Air/Liquid inlet position type [B]

Mounting plate type [None, F, or S]

F: To install facing perpendicular from a wall.
S: To install facing parallel along a wall edge.
**PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Nozzle code</th>
<th>Nozzle quantity</th>
<th>Air pressure (MPa)</th>
<th>Air consumption (L/min, Normal)</th>
<th>Spray capacity (L/hr) at liquid pressure of 0.1 MPa</th>
</tr>
</thead>
<tbody>
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<td>100</td>
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<td>200</td>
<td>10.0</td>
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<tr>
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<td>400</td>
<td>20.0</td>
</tr>
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<td>10.0</td>
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<tr>
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<td></td>
<td>740</td>
<td>40.0</td>
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<tr>
<td></td>
<td>20</td>
<td></td>
<td>1,480</td>
<td>80.0</td>
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</tbody>
</table>

Note: Total air consumption and spray capacities shown in the above table are calculated from the number of nozzles used, based on each air consumption and spray capacity described on page 14.

**SPRAY DISTRIBUTION**

**BIMV11004S303**
- Nozzle spacing: 100 mm
- Compressed air pressure: 0.3 MPa
- Liquid pressure: 0.1 MPa
- Offset angle (nozzle tip angle to axis of header): 15°

**BIMV11004S303**
- Nozzle spacing: 200 mm
- Compressed air pressure: 0.3 MPa
- Liquid pressure: 0.1 MPa
- Offset angle (nozzle tip angle to axis of header): 15°

**HOW TO ORDER**

To determine the specifications, please specify a nozzle code, nozzle quantity, nozzle spacing, and header length etc., using this coding system.

*Example* BIMV11002S303 + 10 (P100) A1000F (Pre-setting 15°, L=1100)

**BIMV11002**
- Nozzle code
- Nozzle quantity
- Nozzle spacing
- Inlet position type
- Header length
- Mounting plate type
- Offset angle
- Total length

**BIMV11004**
- Nozzle code
- Nozzle quantity
- Nozzle spacing
- Inlet position type
- Header length
- Mounting plate type
- Offset angle
- Total length

**BIMV110075**
- Nozzle code
- Nozzle quantity
- Nozzle spacing
- Inlet position type
- Header length
- Mounting plate type
- Offset angle
- Total length

Note: For details of BIMV nozzles, see pages 13 and 14.

For details of BIM Header, please ask for our inquiry drawing.
Adaptors for BIM series Fine Fog Nozzles

The following eight types of adaptors are available for BIM series Low Flow Rate Fine Fog Nozzles: BIMV, BIMV-S, BIMK, BIMK-S, and BIMJ, which are introduced on pages 13 to 22.

See page 27 for dimensions and pipe connection sizes of each adaptor.

Drawings with parts list (each description and material) are available upon request.

**TYPES OF ADAPTORS**

**Type N**

Liquid and air enter into adaptor from both sides.

- **Material:** S303

![Diagram](image1)

**Type NDB**

Spray capacity is adjustable with needle valve.

- **Material:** S303, FKM, PTFE, and NBR

![Diagram](image2)

**Type UNDB**

Besides the features of the NDB-type adaptor, spray direction can be adjusted within +/- 15° by means of a ball joint. It is ideal for fine-tuning of spray direction after pipe assemblies have been completed.

- **Material:** S303, FKM, PTFE, and NBR

![Diagram](image3)

**Type SNB**

Spray ON/OFF can be regulated by turning compressed air ON/OFF, which actuates an internal piston, to open or close the nozzle. Compressed air pressure over 0.2 MPa starts the spray.

- **Material:** S303, FKM, PTFE, and NBR

![Diagram](image4)

**Type USNB**

Besides the features of the SNB-type adaptor, spray direction can be adjusted within +/- 15° by means of a ball joint. It is ideal for fine-tuning of spray direction after pipe assemblies have been completed.

- **Material:** S303, FKM, PTFE, and NBR

![Diagram](image5)

*1) Hole ø1 is for air relief.
Adaptors for BIM series Fine Fog Nozzles

**Adaptors for BIM series Fine Fog Nozzles**

Spray ON/OFF can be regulated by switching the pilot air ON/OFF. The pilot air actuates an internal piston to regulate the spray. (Pilot air pressure more than 0.2 MPa required)

This type of adaptor is suitable for applications to avoid scattering droplets of fog.

Besides the features of the SPB-type adaptor, spray direction can be adjusted within +/- 15° by means of a ball joint. It is ideal for fine-tuning of spray direction after pipe assemblies have been completed.

**Material:** S303, FKM, PTFE, and NBR

**CAUTIONS** for NDB, UNDB, SNB, USNB, SPB, and USPB adaptors

Thin-walled nozzle adaptor tends to deform easily if installed directly by itself.

First assemble Core, Nozzle tip, Cap and Nozzle adaptor by hand with light pressure, then attach them to Connector (or UT Ball). Use a well-fitting hexagon socket wrench instead of a regular spanner (wrench), as a spanner may deform the unit.

**TYPES OF ADAPTORS**

**SPB Type**

Pipe connection sizes

- **Compressed air:** L6
- **Liquid:** ø1*1
- **Pilot air:** 29.5

**Dimensions**

- **Adaptor type:** SPB
- **Air consumption code:** 02, 04, 075
- **Pipe connection sizes:** Rc1/8
- **Mass (g):** 146

**USPB Type**

Pipe connection sizes

- **Compressed air:** L6
- **Liquid:** ø1*1
- **Pilot air:** 29.5

**Dimensions**

- **Adaptor type:** USPB
- **Air consumption code:** 02, 04, 075
- **Pipe connection sizes:** Rc1/8
- **Mass (g):** 167

**STRUCTURE OF SPB ADAPTOR**

This exploded view shows a structure of SPB adaptor as an example. Structure and components varies according to adaptor types.

- **Cap**
- **Nozzle tip**
- **Core**
- **Connector**
- **Nozzle adaptor**
- **Backup ring**
- **Lock nut**
- **Sleeve**
- **Piston**
- **Y-packing**
- **Spring**
- **Spring cap**

**PIPE CONNECTION SIZES AND MASS**

<table>
<thead>
<tr>
<th>Adaptor type</th>
<th>Air consumption code</th>
<th>Pipe connection sizes</th>
<th>Compressed air</th>
<th>Liquid</th>
<th>Pilot air</th>
<th>Mass (g)</th>
</tr>
</thead>
<tbody>
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<td>02, 04, 075</td>
<td>Rc1/8</td>
<td>Rc1/8</td>
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<td></td>
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<td>T</td>
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<td>Rc1/4</td>
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<td></td>
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<td>Rc1/8</td>
<td>Rc1/8</td>
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<td></td>
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<tr>
<td>USNB</td>
<td>15, 22</td>
<td></td>
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<td></td>
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<tr>
<td>SPB</td>
<td>02, 04, 075</td>
<td>Rc1/8</td>
<td>Rc1/8</td>
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<tr>
<td>USPB</td>
<td>15, 22</td>
<td></td>
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<td></td>
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<td></td>
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</tbody>
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**DIMENSIONS**

<table>
<thead>
<tr>
<th>Air consumption code</th>
<th>Dimensions (mm)</th>
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<tbody>
<tr>
<td>L1</td>
<td>L2</td>
</tr>
<tr>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>02</td>
<td>25.3</td>
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<tr>
<td>04</td>
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<tr>
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<td>15</td>
<td>39.1</td>
</tr>
<tr>
<td>22</td>
<td>41.3</td>
</tr>
</tbody>
</table>

*1) Hole ø1 is for air relief.
How to Use Spray ON/OFF Control Adaptors

**SNB adaptor** (CSN, SN adaptors)
Spray ON/OFF can be regulated by turning compressed air ON/OFF.
Compressed air pressure must be 0.2 MPa or higher in order to start the spray.
Adaptor types **CSN** (see page 30) and **SN** (page 35) are used in the same way.

**Function chart**

<table>
<thead>
<tr>
<th>Compressed air</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF ON OFF ON OFF</td>
<td>Stop Spray Stop Spray Stop</td>
</tr>
</tbody>
</table>

**Connection example**

**SPB adaptor** (CSP, SP adaptors)
Spray ON/OFF can be regulated by switching the pilot air ON/OFF.
The pilot air actuates an internal piston to regulate the spray. (Pilot air pressure must be 0.2 MPa or higher.)
As even low pressure atomizing air can be used, production of a range of fine to coarse fog is possible.
Best-suited for when there is concern about scattering droplets.
Adaptor types **CSP** (see page 30) and **SP** (page 35) are used in the same way.

**Function chart**

<table>
<thead>
<tr>
<th>Compressed air</th>
<th>Pilot air</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF ON ON ON OFF</td>
<td>OFF ON ON ON ON OFF</td>
<td>Stop Spray Stop Spray Stop</td>
</tr>
</tbody>
</table>

**Connection example**
Mounting Bracket (product code: MBW)
Mounting bracket enables easy fixing of a nozzle on a pole (metal rod) with desired spray direction.
Available in two size for pipe diameters of 8 mm or 10 mm.
Available for the adaptor types T, NDB, UNDB, SNB, USNB, SPB, and USPB (not available for N-type adaptor).

Spray Gun Unit with BIM nozzles: BIM-GUN
Liquid siphon type with 250 ml bottle. Air capacity adjustability (as standard equipment).
Suitable for chemical spraying, etc.
*500 ml bottle is available as an option.

Pressure gauge kit including pressure reducing valve and two couplers.
Note: When using BIM**04S types, this item is necessary.
Max. operating pressure: 0.5 MPa
Structure: 1) BIM nozzle, 2) Air duster gun, 3) Plastic bottle
Materials: S303, S304, PP, PE, etc.
Liquid contacting parts: PE (bottle) and Stainless steel 303 (nozzle)
Some kinds of chemical may not be suitable for use.
**List of Nozzle Tip Interchangeability**

Nozzle tips with ○ are interchangeable with each other to change spray angle and spray pattern.

<table>
<thead>
<tr>
<th>BIM series</th>
<th>Liquid pressure type</th>
<th>BIMV</th>
<th>BIMK</th>
<th>BIMJ</th>
<th>BIMV-S</th>
<th>BIMK-S</th>
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<td>11002</td>
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<td>11006</td>
<td>11008</td>
<td>11010</td>
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Note: ○ indicates interchangeability.