Additional Nozzles and Products
## Additional Nozzles and Products

<table>
<thead>
<tr>
<th>Product name</th>
<th>Model</th>
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<td><strong>Ball Joint</strong></td>
<td>BJHC</td>
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<td>MJ</td>
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<td>KSME</td>
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<td></td>
<td>H. 4</td>
</tr>
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<td></td>
<td>H. 5</td>
</tr>
</tbody>
</table>
Ball Joint

- Feature
  - The ball can be fixed in a desired position by loosening or tightening the cap.

- Materials
  - 303 Stainless steel
  - Brass

- Maximum service pressure
  - 1 MPa

Shapes and dimensions

- BJHC
- BJHC F

Model and Model Number representing

- B J H C
- 1/4
- 1/4
- SUS
- Material
  - SUS - Stainless steel
  - BSBM - Brass

Standard type model number list

<table>
<thead>
<tr>
<th>Model</th>
<th>Class</th>
<th>Connecting thread</th>
<th>Dimension [mm]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pipe end</td>
<td>Nozzle end</td>
<td>L</td>
</tr>
<tr>
<td>1/8 x 1/8</td>
<td>R 1/8</td>
<td>Rc1/8</td>
<td>Rc1/8</td>
<td>24</td>
</tr>
<tr>
<td>1/4 x 1/4</td>
<td>R 1/4</td>
<td>Rc1/4</td>
<td>Rc1/4</td>
<td>29</td>
</tr>
<tr>
<td>1/4 x 1/4</td>
<td>R 1/4</td>
<td>Rc1/4</td>
<td>Rc1/4</td>
<td>29</td>
</tr>
<tr>
<td>1/2 x 1/2</td>
<td>Rc1/2</td>
<td>Rc1/2</td>
<td>Rc1/2</td>
<td>35</td>
</tr>
<tr>
<td>1/4 x 1/2</td>
<td>Rc1/2</td>
<td>Rc1/2</td>
<td>Rc1/2</td>
<td>39</td>
</tr>
<tr>
<td>1/2 x 3/4</td>
<td>R 1/2</td>
<td>Rc1/2</td>
<td>Rc1/2</td>
<td>46</td>
</tr>
<tr>
<td>1 x 3/4</td>
<td>R 1</td>
<td>Rc1</td>
<td>Rc1</td>
<td>46</td>
</tr>
<tr>
<td>1 x 1</td>
<td>R 1</td>
<td>Rc1</td>
<td>Rc1</td>
<td>60</td>
</tr>
</tbody>
</table>
Installation example

Nozzle tip can be adjustable for any angle by installing a ball joint at the edge of the inlet tube. (see below sample picture)

Swivel type Pipe Joint

Features

- The spring built-in joint angle can be freely adjusted without any special tools.

Materials

- 303 Stainless steel
- Brass

Maximum service pressure

- 1 MPa

Shapes and dimensions

Model and Model Number representing

\[
\frac{1}{4} \times \frac{1}{4}
\]

Thread size (pipe end) \times Thread size (nozzle end)

Standard type model number list

<table>
<thead>
<tr>
<th>Class</th>
<th>Connecting thread Pipe end</th>
<th>Connecting thread Nozzle end</th>
<th>Dimension [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{1}{4}) (\times) (\frac{1}{4})</td>
<td>R(\frac{1}{4})</td>
<td>R(\frac{1}{4})</td>
<td>40</td>
</tr>
<tr>
<td>(\frac{1}{8}) (\times) (\frac{1}{8})</td>
<td>R(\frac{1}{8})</td>
<td>R(\frac{3}{8})</td>
<td>50</td>
</tr>
<tr>
<td>(\frac{1}{8}) (\times) (\frac{1}{4})</td>
<td>R(\frac{1}{2})</td>
<td>R(\frac{1}{2})</td>
<td>50</td>
</tr>
<tr>
<td>(\frac{1}{4}) (\times) (\frac{3}{8})</td>
<td>R(\frac{3}{4})</td>
<td>R(\frac{3}{4})</td>
<td>60</td>
</tr>
<tr>
<td>1 (\times) 1</td>
<td>R1</td>
<td>R1</td>
<td>70</td>
</tr>
</tbody>
</table>
**Inline Check Valve**

### Feature and Application
- The spray can be instantly injected and shut in a short time, even in continuous pump on/off operations, with the valves installed between the nozzle and oil supply pipe end.

### Materials
- 303 Stainless steel

### Shapes and dimensions

*Dimensions and connecting threads depend on the specified specifications.*

### Model and Model Number representing

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{3}{4})</td>
<td>(\frac{3}{4})</td>
</tr>
<tr>
<td>Thread size (pipe end)</td>
<td>Thread size (nozzle end)</td>
</tr>
<tr>
<td>I. C. V</td>
<td></td>
</tr>
</tbody>
</table>

### Ordering tips

1. Nozzle model number
2. Working pressure
3. Starting pressure
4. Connecting threads
5. Dimensions

*We will design and propose with specified specifications.*
### Features
- Cooling by vaporization heat of fine particles of about 20 µm.
- Large range of cooling is possible with large air volume fan.

### Applications
- Product cooling
- Measures against heat
- Dustproof, greening the park

### Shapes and Dimensions

#### MJ-600-20
- Pressure: 6 MPa
- Flow rate: 1 L/min
- Connecting thread: Rc ¼
- Power supply: 200 V, 1.5 kW
- Weight: About 70 kg
- No. of nozzles: 20
  - A separate pump is required for spraying.
  - Please specify 50 Hz or 60 Hz.
  - With power code of 10 m. (No plug)
  - Option: Air volume regulating mechanism

#### MJ-300-12
- Pressure: 6 MPa
- Flow rate: 0.8 L/min
- Connecting thread: Rc ¼
- Power supply: 100 V, 550 V
- Weight: About 16 kg
- No. of nozzles: 12
  - A separate pump is required for spraying.
  - Please specify 50 Hz or 60 Hz.
  - With power code of 3 m. (With plug)

### Performance Data

#### Example of temperature change

**Spray specification**
- Model number: MJ-600-20
- Pressure: 6 MPa
- Flow rate: 1 L/min

**Measurement position**
- Center of spray

#### Measurement condition
1. Temperature: 31.5 °C
   - Humidity: 62 %
2. Temperature: 34.0 °C
   - Humidity: 58 %

<table>
<thead>
<tr>
<th>Item</th>
<th>Changes in temperature and humidity at following spray distance [m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Temp.</td>
</tr>
<tr>
<td></td>
<td>26.1°C</td>
</tr>
<tr>
<td></td>
<td>28.5°C</td>
</tr>
<tr>
<td>2</td>
<td>Temp.</td>
</tr>
<tr>
<td></td>
<td>27.5°C</td>
</tr>
<tr>
<td></td>
<td>30.0°C</td>
</tr>
</tbody>
</table>

https://www.everloy-spray-nozzles.com
**Moya Atomizing System**

**Features**
- No need to inject expensive compressor air.
- An internal check valve inside prevents dripping form nozzles.
- An internal small filter inside minimizes clogging.
- Safe and clean mist.

**Applications**
- Measures against heat, product cooling, dustproof.
- Greening of the park, humidification.

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**Shapes and dimensions**

**KSME (Moya Atomizing Nozzle)**

*See “Moya Atomizing Nozzle” page G4 for details of Nozzle specifications.*

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**Configuration example of this system**

**Basic model**
- System component: A pump unit, header and nozzles
- Option: Timer

[Diagram of the basic model]

**Automatic control model**
- System component: A pump unit, header, nozzles, and control panel (including sensors)

[Diagram of the automatic control model]

*Estimated nozzle pitch is 500 mm to 1000 mm.*

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**EVERLOY**

[Website: https://www.everloy-spray-nozzles.com]