Flat Spray Nozzles with ON/OFF Control

**SO-V Series**

**SO-V series (with ceramic orifice inserted)**

- Structure
  - Spray ON/OFF can be regulated by switching the pilot air ON/OFF. The pilot air activates an internal piston to regulate the spray.

- Material
  - Nozzle orifice: ceramic
  - Metal parts: S303

- Mass
  - 150 g

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

**Mounting adaptor (Optional)**

A mounting adaptor is available for fixing SO-V series nozzle onto a pole to spray in the desired direction. Please specify "(with ø10 mounting adaptor)" at the end of the product code to order.

<table>
<thead>
<tr>
<th>Spray capacity code</th>
<th>0.3 MPa</th>
<th>Spray capacity (ℓ/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>115</td>
<td>115</td>
<td>0.22</td>
</tr>
<tr>
<td>90</td>
<td>90</td>
<td>0.30</td>
</tr>
<tr>
<td>80</td>
<td>80</td>
<td>0.40</td>
</tr>
<tr>
<td>65</td>
<td>65</td>
<td>0.60</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
<td>0.70</td>
</tr>
<tr>
<td>40</td>
<td>40</td>
<td>0.80</td>
</tr>
<tr>
<td>25</td>
<td>25</td>
<td>1.00</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
<td>1.50</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>2.00</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>2.20</td>
</tr>
</tbody>
</table>

For the spray angle and spray capacity at pressures other than 0.3 MPa, please see the chart of V series nozzles on pages 13–14.

**Spray pattern**

**Spray distribution**

**Features**
- Flat spray pattern with a mountain-shaped spray distribution having gradually tapered edges.
- Prevents dripping after spraying stops.
- Quick response ON/OFF spray.
- Spray ON/OFF can be regulated by pilot air ON/OFF.

**Standard pressure**
0.3 MPa

**Applications**
- Coating: Release agent, lubricant
- Food additive (seasoning)
- Moisture control: Paper, food

**Example of use**

**Operation time chart**

- Pilot air
  - OFF
  - ON
  - OFF
  - ON
  - OFF

- Liquid
  - Stop
  - Spray
  - Stop
  - Spray
  - Stop

**How to order**

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

(Example) 1/8 SO-V 11503 S303 (with ø10 mounting adaptor)

1/8 SO-V  115  03  S303 (with ø10 mounting adaptor) (Option)

<table>
<thead>
<tr>
<th>Spray angle code</th>
<th>Spray capacity code</th>
</tr>
</thead>
<tbody>
<tr>
<td>115</td>
<td>02</td>
</tr>
<tr>
<td>15</td>
<td>20</td>
</tr>
</tbody>
</table>

**CAUTIONS**
- Supply liquid pressure at 0.5 MPa or less.
- Supply pilot air pressure at between 0.2 and 0.5 MPa.
- Pilot air ON/OFF regulates spray ON/OFF.
- For better shut off and preventing dripping, purge the air inside/between the solenoid valve and SO-V series nozzle at OFF time, using a 3-way solenoid valve.

** ALSO AVAILABLE! **

Solid Stream Jet with ON/OFF Control

**SO-CM series**

See p.107 of this catalog.