The spray valve **DAS 100 EV** is designed to obtain micro-spraying of various kinds of fluid. Its threaded inlet allows the feeding of products of medium to high viscosity, such as greases and lubricating pastes. The valve allows to obtain uniform coverage of the areas without going to affect the surrounding parts. For this reason it is ideal to be mounted on robot, arms etc. The spray caps are available in various shapes depending on the effect required.

**FEATURES:**

- Fine adjustment of the flow rate
- Needle and nozzle in stainless steel
- Operation mode normally closed with safety spring
- Micro-spray on parts with minimum size of 8-10 mm
- Do not create mist or unwanted drips
- Easy maintenance and cleaning of the valve.

**FIELDS OF APPLICATION:**

- Grease micro-spraying
- Lubricants micro-spraying
- Primer micro-spraying
- Vinilic glues micro-spraying

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**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>DAS 100 EV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Double Acting</td>
</tr>
<tr>
<td>Weight</td>
<td>490 g</td>
</tr>
<tr>
<td>Max fluid pressure</td>
<td>Max 25 bar</td>
</tr>
<tr>
<td>Actuating air pressure</td>
<td>5 - 7 bar</td>
</tr>
<tr>
<td>Atomizing air pressure</td>
<td>From 0.1 to 6 bar</td>
</tr>
<tr>
<td>Type air inlet</td>
<td>Hose 6x4mm 4x2, 5mm</td>
</tr>
<tr>
<td>Fluid inlet thread</td>
<td>1/8 BSP</td>
</tr>
<tr>
<td>Air cap type</td>
<td>Oval or round</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 200 cycles / min</td>
</tr>
<tr>
<td>Adjusting of the passage</td>
<td>Micrometric</td>
</tr>
<tr>
<td>Used materials</td>
<td>Stainless steel, nickel-plated brass</td>
</tr>
<tr>
<td>Fluids to be dispensed</td>
<td>Grease, oil, lubricants, primers, vinilic glues</td>
</tr>
</tbody>
</table>
AIR CAPS AND SPRAY NOZZLES

Depending on the fluid, the spray nozzles are available in various diameters from 0.3 to 1.5 mm, while the air caps allow to obtain a round or oval spray pattern.

DRIVE THE VALVE DAS 100 EV

The valve DAS 100 EV is equipped with a solenoid valve, that with a 24 VDC feeding open the dispensing. The atomizing air, necessary for the spraying, have to be drived with another 3/2 solenoid valve with a precision pressure regulator mounted on the line. This allows to keep separate the timing of dosing and spraying, and allow to have the greatest possible results.

Valve configurations

DAS 100 EV

- HOOD
  - CR round + 15°
  - CO oval + 45° + 60° + 90°

- NOZZLES AVAILABLE
  - Ø mm
    - 0.3
    - 0.5
    - 0.8
    - 1
    - 1.2
    - 1.5

- REGULATION
  - NR screw
  - RM micrometric

Connection diagram

PNEUMATIC PUMP

PLC

PRESSURE STABILIZATOR

MAX 25 bar

SOLENOID VALVE 3/2

We reserve the right to modify at any time, without notice, the specifications, dimensions and weights in this datasheet. The illustrations are not binding.