The needle valve **DA 400 EV** is designed to dispense in a controlled, precise and repeatable way, fluids with medium to high viscosity. The valve has the feature to be customized with nozzles with various shapes and sizes, available in the catalog. The solenoid valve, mounted directly on board, allows high precision in the deposition, and makes it ideal to be integrated on automated systems, such as robots, SCARA, and Cartesian arms.

**FEATURES:**

- Fine adjustment of the flow rate (optional)
- Solenoid Valve 5/2 mounted on board to have an instantaneous start/stop
- Easy maintenance and cleaning of the valve
- TCT needle and nozzle in stainless steel for long life
- Surface coating with Teflon to make the valve easy to clean the inside and improve the flow of the highest viscosity fluids
- Divorced construction, the pneumatic part is separated from the passage of the fluid.

**FIELDS OF APPLICATION:**

- Silicone dispensing
- Grease dispensing
- Resin dispensing
- Medium to high viscosity fluids dispensing

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>DA 400 EV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation mode</td>
<td>Double Acting</td>
</tr>
<tr>
<td>Weight</td>
<td>310 g</td>
</tr>
<tr>
<td>Max fluid pressure</td>
<td>80 bar</td>
</tr>
<tr>
<td>Actuating air pressure</td>
<td>6 - 7 bar</td>
</tr>
<tr>
<td>Air inlet thread</td>
<td>M5</td>
</tr>
<tr>
<td>Fluid inlet thread</td>
<td>1/8 BSP</td>
</tr>
<tr>
<td>Outlet Thread</td>
<td>Threaded nozzles, luer lock thread, steel nozzles of various shapes and sizes</td>
</tr>
<tr>
<td>Speed</td>
<td>Up to 300 cycles / min</td>
</tr>
<tr>
<td>Adjusting the passage</td>
<td>With micrometric screw or with screw and nut</td>
</tr>
<tr>
<td>Used Materials</td>
<td>Stainless steel, TCT, nickel plated brass and Teflon</td>
</tr>
<tr>
<td>Fluids to be used</td>
<td>Silicones, liquid gaskets, greases, resins, various medium-high viscosity</td>
</tr>
</tbody>
</table>

**DAV TECH SRL**
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davtech@davtech.it
www.davtech.it
**NOZZLES FOR DA 400 EV DISPENSING VALVE**

The valve DA 400 EV presents a very high number of nozzles available as standard. Nozzles with thread 1/8 BSP male, luer lock, nozzles complete with various shapes and diameters from 0.3 to 1.5 mm. If necessary, we can design and create multi-point terminals, with radial outlets, inclined etc.

**DRIVE VALVE DA 400 EV**

The valve has a 5/2 solenoid valve mounted directly on board, and it is therefore sufficient to feed the power supply (24V) to the solenoid (which is always kept fed pneumatically to 6-7 bar) for controlling the dispensing.

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**Valve configurations**

**DA 400 EV**

- Nozzles available:
  - \( \Phi \text{ mm} \) 0.3, 0.5, 0.8, 1, 1.5

- Regulation:
  - NR screw
  - RM micrometric

Special versions available on request.

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**Connection diagram**

- Pneumatic pump
- Pressure stabilizer
- PLC