The 781Mini™ precision Low Volume, Low Pressure (LVLP) spray valve features a patent-pending design that directs nozzle air pressure more consistently, for a more uniform spray pattern. This delivers greater accuracy and edge definition in applications of low-to-medium viscosity fluids such as activators, coatings, greases, oils, inks, liquid fluxes, silicones, and solvents.

It also features a 60% smaller form factor than conventional spray valves, allowing it to spray in tighter spaces and at more complex angles. Ideal for automated assembly processes, the valve’s smaller dimensions allow multiple valves to be mounted per fixture plate for greater overall throughput.

Using LVLP technology, the valve produces precise, repeatable micro spray patterns as small as 1 mm (0.04”) in diameter. A unique, patented QR (Quick Release) thumbscrew clasp allows for easy removal of the fluid body to replace wetted parts in seconds — no tools required.

**Features**
- 60% smaller form factor than conventional spray valves
- Precision spray control. Consistent spray patterns as small as 1 mm (0.04”) in diameter
- High transfer efficiency without overspray or airborne mist
- Adjustable fluid flow rate and nozzle air
- Zero dead fluid volume for reduced fluid waste
- Easy-to-use, low maintenance design

**Benefits**
- Smaller spray patterns than could previously be achieved
- Improved spray pattern uniformity provides better accuracy and edge definition
- Smaller form factor allows for dispensing in tighter spaces, creating new manufacturing opportunities
- QR (Quick Release) clasp allows for quick, tool-free serviceability, minimizing downtime
- 360° rotational fluid body provides flexible positioning for faster setup
- Lightweight construction reduces tabletop automation motor and belt wear
- Modular design lowers cost of ownership

Zero overspray prevents part contamination.
### 781Mini Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>71.4 mm length x 22.4 mm diameter (2.8 x 0.9&quot; diameter)</td>
</tr>
<tr>
<td>Weight</td>
<td>141 g (5 oz)</td>
</tr>
<tr>
<td>Actuating air pressure required</td>
<td>4.8–6.2 bar (70–90 psi)</td>
</tr>
<tr>
<td>Maximum fluid pressure</td>
<td>7.0 bar (100 psi)</td>
</tr>
<tr>
<td>Fluid inlet</td>
<td>M5</td>
</tr>
<tr>
<td>Mounting</td>
<td>M4</td>
</tr>
<tr>
<td>Cycle rate</td>
<td>Exceeds 400 per minute</td>
</tr>
<tr>
<td>Actuating air inlet</td>
<td>4 mm OD tubing, barb fitting</td>
</tr>
<tr>
<td>Air cylinder body</td>
<td>303 stainless steel</td>
</tr>
<tr>
<td>Fluid body</td>
<td>303 stainless steel</td>
</tr>
<tr>
<td>Air cap</td>
<td>303 stainless steel</td>
</tr>
<tr>
<td>Piston</td>
<td>303 stainless steel</td>
</tr>
<tr>
<td>Needle</td>
<td>303 stainless steel</td>
</tr>
<tr>
<td>Maximum operating temperature</td>
<td>102º C (215º F)</td>
</tr>
</tbody>
</table>

US Patent No. 9,816,849 for QR clasp.

All stainless steel valve parts are passivated.

### Part # | Description      | Nozzle Orifice | Spray Pattern |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7364002</td>
<td>781Mini-0.01&quot; spray valve</td>
<td>0.254 mm (0.01&quot;)</td>
<td>Round</td>
</tr>
<tr>
<td>7362301</td>
<td>781Mini-0.03&quot; spray valve</td>
<td>0.76 mm (0.03&quot;)</td>
<td>Round</td>
</tr>
</tbody>
</table>

**Select Your Controller**


**Automated Dispensing Systems**

Nordson EFD automated dispensing systems deliver market-leading repeatability and accuracy in fluid placement and positioning. Specialized dispensing software simplifies setup and programming. Optimize dispensing results with features such as laser height sensing and smart vision CCD cameras.

**Request a Process Evaluation**

Contact Nordson EFD to configure a precision dispense system that meets your specific needs, with:

- A complimentary process evaluation by experienced fluid dispensing experts
- Samples processed for customer evaluation and approval prior to purchase

For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to [www.nordsonefd.com](http://www.nordsonefd.com).

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