The VDP150 plunger pump is a pneumatically operated positive displacement valve designed for dispensing constant volume shots of low to medium viscosity materials within 1%. The VDP150 has two integral check valves to control the flow of material.

The valve is cycled by applying air pressure to the air ports. For low viscosity materials (less than 5,000cps) no fluid pressure is required, as the material is drawn into the displacement chamber by the plunger. Low fluid pressure is required for medium viscosity materials of 5,000 - 20,000cps.

Shot sizes may be fine tuned by turning an adjustment control at the top of the valve.

### Features
- Positive displacement metering
- Integral inlet/outlet check valves
- Stroke adjustment to fine tune shot size

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating air pressure</td>
<td>60-85 psi</td>
</tr>
<tr>
<td>Material delivery spring 0.3mm</td>
<td>4.26psi</td>
</tr>
<tr>
<td>Material delivery spring 0.5mm</td>
<td>17.06psi</td>
</tr>
<tr>
<td>Cycle Rate</td>
<td>120 cycles/min.</td>
</tr>
<tr>
<td>Minimum shot size</td>
<td>0.005cc</td>
</tr>
<tr>
<td>Maximum shot size</td>
<td>0.15cc/cycle</td>
</tr>
<tr>
<td>Measuring type</td>
<td>Plunger</td>
</tr>
</tbody>
</table>

### Driving part materials
- Cylinder Body / Cap: AL hard anodized
- Piston: SUS303
- Check Body: SUS303, RULON

### Wetted part materials
- Chamber, CAP, CV body: SUS303
- Plunger: SUS420 (tin coating)
- Check valve: PEEK
- O-rings: Purfluore

### Connecting ports
- Air Input: M5xP0.8, 4mm fitting
- Material Inlet: 1/8" NPT
- Material Outlet: Luer lock
- Weight: 172.4g

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### Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDP150</td>
<td>Positive displacement valve</td>
</tr>
</tbody>
</table>

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