MV250
POSITIVE DISPLACEMENT METERING
Valve MV250

Metering Valves MV250

Advantages

• Simple to install
• Easy and fast calibration of the quantity
• Minimum accuracy of ± 2%
• Part in contact with the stainless steel fluid
• Opening and closing control (faster)
• Potential rate: greater than 600 cycles / minute
• No residual drop at the end of the cycle

Compatible products

Adhesives / Activators / Lubricants / oils / RTV / Epoxies / Solvents / Alcohols / Fluids / Inks / Paints

Positive Displacement Dispense Valve with Micro Dispense Nozzle Outlet

The MV250 Positive Displacement Valve is a true positive displacement metering valve capable of dispensing small imagevolumes of material for applications requiring a high degree of accuracy and repeatability. Dispense volumes are determined by the valve's micrometer adjustment setting which regulates the travel of the displacement rod.

The benefit of using positive displacement technology is the dispense volumes cannot be altered by variations in viscosity or material pressure thus eliminating variables that can alter a process. And, with a lightweight, slim design, the MV250 can be integrated into manual dispense systems or fully automated platforms.

The MV250 has many integrated features including:

• 0.0001 cc to 0.0120 cc shot volume per cycle
• True positive [rod] displacement metering action
• Adjustable micrometer permits shot size modification
• Divorced design prevents material contamination to the air section
• Precision inlet and outlet check valves provide precise metering
• Longer seal life with new O-ring & packing design
• Stainless steel fluid section for optimum material compatibility
• Bleed ports on fluid section for purging
• Nozzles available in Stainless Steel or Ceramic

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## Valve MV250

### Characteristics

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>190 mm x 19 mm x 19 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>8 oz</td>
</tr>
<tr>
<td>Viscosity Range</td>
<td>1 cps – 50,000 cps</td>
</tr>
<tr>
<td>Operating Air Pressure</td>
<td>60 – 100 psi</td>
</tr>
<tr>
<td>Maximum Inlet Fluid Pressure</td>
<td>100 psi</td>
</tr>
<tr>
<td>Wetted Components</td>
<td>Stainless steel, Kalrez®, Teflon®</td>
</tr>
<tr>
<td>Dispense Volume Range</td>
<td>0.0001 cc to 0.0120 cc</td>
</tr>
<tr>
<td>Repeatability</td>
<td>1% - 2% (typical)</td>
</tr>
</tbody>
</table>

Scroll wheel adjustment Used to set The amplitude of the movement Of the diaphragm and adjust The flow of fluid.

Air intake of command of closing

Air intake of order opening

Headquarters throttle

Needle Piston

Needle guidance

Teflon ball Watertight entry

Teflon ball Waterproof outlet
PDS S.A.S is a french company that commercializes a wide range of dosage equipments, proven and effective.

Distributed in over 20 countries around the world, these equipements provide tailored solutions to many users in order to improve technically their manufacturing and reduce their productions costs.

Our collaborators and sales engineers all have a strong technical competences. They are able to answer your questions and offer you, after analysis, the right solution for your particular need.

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