Flexibility on demand

To provide a largest range of application as possible we integrated in addition to our constructed valves the dispensing valves of other manufacturer. There is the possibility to equip our established placeALL® machines with different dispensing systems to realize all jobs of pick & place and dispense.

If there is a higher demand in dispensing we offer the dispenseALL as perfect solution. Up to four dispensing heads can be mounted on its universal dispensing unit. An intuitive user interface allows an easy programming of dispensing jobs because every dispensing valve is completely integrated.

This wide choice of various dispensing solutions enables to fulfill nearly all tasks of our customers.

Following a part of already integrated dispensing valves is listed. If you need help by choosing the right valve or can’t find the adequate valve please feel free to contact us: info@fritsch-smt.com
### Time-pressure valves

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRITSCH</td>
<td>Dispensing system standard</td>
<td><img src="image" alt="FRITSCH Dispensing system standard" /></td>
</tr>
<tr>
<td>MARTIN</td>
<td>CD 04</td>
<td><img src="image" alt="MARTIN CD 04" /></td>
</tr>
<tr>
<td>MARTIN</td>
<td>CD 05</td>
<td><img src="image" alt="MARTIN CD 05" /></td>
</tr>
<tr>
<td>VIEWEG</td>
<td>DV-5000DFS-L</td>
<td><img src="image" alt="VIEWEG DV-5000DFS-L" /></td>
</tr>
</tbody>
</table>

### Order number
- 908.221.010
- 908.221.050
- 908.221.052
- 908.221.070
- 908.221.060
- 908.221.061
- 908.221.062
- 908.221.063

### Gear
- Pneumatically
- DC-motor

### Dispensing concept
- Time-pressure
- Time-pressure incl. processor controlling
- Time-pressure incl. processor controlling
- Screw conveyor

### Regulation of temperature
- Nozzle heating
- Nozzle heating

### Dispensable media
- solder paste, SMD glue, underfill material, etc.
- solder paste, SMD glue, underfill material, etc.
- solder paste, SMD glue, underfill material, silverpaste etc.
- solder paste, SMD glue, underfill material, silverpaste etc.
- solder paste, SMD glue, underfill material, silverpaste etc.

### Dispensing volume
- Depending on medium
- 20 - 10,000nl
- 20 - 10,000nl
- >100nl

### Viscosity range
- Paste-like
- Paste-like
- Aquous - paste-like
- 50,000mPa·s - paste-like

### Speed of valve
- 15,000 dot/h
- 28,000 dot/h
- 28,000 dot/h
- 25 ml/h

### Other
- Opt. syringe cooling, level compensation for all syringe sizes
- Opt. syringe cooling, level compensation for all syringe sizes, restraint vacuum for aqueous media

### Manufacturer’s details about solder paste

<table>
<thead>
<tr>
<th>Solder paste</th>
<th>Depending on dispensing volume type 3 - 6</th>
<th>Depending on dispensing volume type 3 - 6</th>
<th>Depending on dispensing volume type 3 - 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. application rate</td>
<td>Ø 500 - 600µm</td>
<td>Ø 300µm</td>
<td>Ø 300µm</td>
</tr>
<tr>
<td>Speed of application</td>
<td>3600 Dot/h</td>
<td>3600 Dot/h</td>
<td>3600 Dot/h</td>
</tr>
</tbody>
</table>

The technical data are summarized from the manufacturers.

**More informations:**
- www.fritsch-smt.com
- www.martin-smt.de
- www.martin-smt.de
- www.dosieren.de

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**PRECISE AND FLEXIBLE DISPENSING SOLUTIONS**

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**Time-pressure valves**

FRITSCH
Dispensing system standard

MARTIN
CD 04

MARTIN
CD 05

VIEWEG
DV-5000DFS-L

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**Manufacturer’s details about solder paste**

Solder paste
- Depending on dispensing volume type 3 - 6
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Min. application rate
- Ø 500 - 600µm
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Speed of application
- 3600 Dot/h
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<table>
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<tr>
<th>MUSASHI</th>
<th>LIQUIDYN P-Dot ET</th>
<th>LIQUIDYN P-Jet CT</th>
<th>VERMES MDS 3200A</th>
</tr>
</thead>
<tbody>
<tr>
<td>908.221.060</td>
<td>908.221.061</td>
<td>908.221.062</td>
<td>908.221.063</td>
</tr>
<tr>
<td>electropneumatically</td>
<td>electropneumatically</td>
<td>electropneumatically</td>
<td>piezo</td>
</tr>
<tr>
<td>volumetric</td>
<td>volumetric</td>
<td>volumetric</td>
<td>volumetric</td>
</tr>
<tr>
<td>with heater controller</td>
<td>opt. with heater controller</td>
<td>opt. with heater controller</td>
<td>opt. with heater controller</td>
</tr>
<tr>
<td>solder paste, SMD glue, underfill material, silver paste, etc.</td>
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</tr>
<tr>
<td>3 nl bzw. 0,02mg</td>
<td>3 - 200 nl</td>
<td>&gt; 3 nl</td>
<td>&gt; 2 nl</td>
</tr>
<tr>
<td>50 - 300.000mPA · s</td>
<td>paste-like - 2.000.000mPA · s</td>
<td>0,5 - 10.000mPA · s</td>
<td>paste-like - 2.000.000mPA · s</td>
</tr>
<tr>
<td>1.188.000 dot/h</td>
<td>540.000 dot/h</td>
<td>1.008.000 dot/h</td>
<td>2.088.000 dot/h</td>
</tr>
<tr>
<td>variants of type 4 - 6</td>
<td>variants of type 5 or 6</td>
<td>variants of type 5 or 6</td>
<td>special solder paste</td>
</tr>
<tr>
<td>Ø 500µm</td>
<td>Ø 500 - 600µm</td>
<td>Ø 500 - 600µm</td>
<td>Ø 300µm</td>
</tr>
<tr>
<td>72.000 dot/h</td>
<td>72.000 dot/h</td>
<td>72.000 dot/h</td>
<td>180.000 dot/h</td>
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## Operational availability

<table>
<thead>
<tr>
<th></th>
<th>placeALL® dot-dispensing</th>
<th>placeALL® bead-dispensing</th>
<th>placeALL® line-dispensing</th>
<th>dispenseALL dot-dispensing</th>
<th>dispenseALL bead-dispensing</th>
<th>dispenseALL line-dispensing</th>
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<td>FRITSCH – Dispensing system standard</td>
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<td>MUSASHI – AeroJet</td>
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<td>LIQUIDYN – P-Dot ET</td>
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<tr>
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<td>VERMES – MDS 3200A</td>
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