# Overview Dispenser and Dosing pumps

## Business Unit Adhesives & Chemicals

<table>
<thead>
<tr>
<th>Dispenser Type</th>
<th>Specifications</th>
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</table>
| Dispenser RD-EC series | - Dosing volume: from ~0.05 ml/rev to ~1.7 ml/rev  
- Volume flow: from ~0.05 ml/min to 212.5 ml/min*  
- Min. dosing volume: 0.002 ml** |
| Dispenser RD-EC 3D | - Dosing volume: 5.0 ml/rev  
- Volume flow: from ~50.0 ml/min to 625.0 ml/min*  
- Min. dosing volume: 0.3 ml** |
| High pressure Dispenser 6RD8-EC | - Dosing volume: 0.35 ml/rev  
- Min. dosing volume: 0.02 ml**  
- Dosing pressure up to 150 bar |
| 2-Component Dispenser ViscoDuo-V 4/4 | - Mixing ratio 1:1 to 10:1*  
- Dosing volume: 0.05 ml/rev per dispenser  
- Min. dosing volume: ~0.01 ml**  
- Max. continuous output volume: ~0.2 ml/s respectively 12.5 ml/min* |
| 2-Component Dispenser ViscoDuo-P 4/4 | - Mixing ratio 1:1 to 10:1* (depending on the version)  
- Dosing volume: 0.05 ml/rev per dispenser  
- Min. dosing volume: 0.01 ml*** each mixing head  
- Max. continuous output volume: ~0.2 ml/s respectively 12.0 ml/min* |
| 2-Component Dispenser ViscoDuo-VM | - Mixing ratio 100:100 to 100:1*  
- Dosing volume: from 0.12 to 5.0 ml/rev  
- Min. dosing volume: ~0.005 ml**  
- Volume flow: from ~1.2 to 625.0 ml/min* |
| Dispenser VMP series | - Dosing volume: from 4.0 to 65.0 ml/rev  
- Volume flow: from ~40.0 ml/min to 8,125.0 ml/min*  
- Min. dosing volume: 0.25 ml** |

*depends on viscosity and pre-pressure  
**depends on the dosing material  
***depends on mixing ratio and dosing material
## Business Unit Food

| Hygienic Dispenser VHD | • Dosing volume: 0.35 ml/rev to 5.1 ml/rev  
| Min. dosing volume: 0.35 ml**  
| Design according to EHEDG-guidelines  
| FDA compliant elastomers |

| Dosing pump RD-series (hygienic design) | • Dosing volume: 1.0 to ∞ ml/rev  
| EHEDG compliant for CIP/SIP  
| Suitable for barrel emptying systems |

| Dosing pump VFL series | • Dosing volume: 0.5 to ∞ ml/rev  
| Fast- and Easy-Clean-Version |

## Business Unit Pharma

| Dispenser Pharma VPHD | • Dosing volume: from ~0.2 to 50.0 ml  
| Min. dosing volume: 0.2 ml**  
| EHEDG certified for COP |

| Dosing Pump Pharma RD-series | • Dosing volume: from 10.0 to ∞ ml  
| EHEDG certified for CIP/SIP |

## Business Unit Components & Devices

| Dispenser eco-PEN series | • Dosing volume: from ~0.012 to 0.35 ml/rev  
| Volume flow: from 0.12 to 60.0 ml/min*  
| Min. dosing volume: from 0.001 to 0.06 ml |

| Dispenser eco-DUO series | • Mixing ratio: 1:1 to 5:1  
| Dosing volume: from ~0.05 to 0.140 ml/rev per dispenser  
| Volume flow: from 0.2 to 32.0 ml/min*  
| Min. dosing volume: from 0.01 to 0.03 ml |

| Dispenser eco-Spray | • Volume flow: from 0.5 to 6.0 ml/min*  
| Smallest spraying amount: 50 µl  
| Spraying angle: 15 to 30° |

*depends on viscosity and pre-pressure  
**depends on the dosing material