Precision, Efficiency & Reliability – All in One System

Volumetric Dispensing Systems
Advantages of Volumetric Dispensing:

- Positive displacement
- Repeatability > 99%
- Accurate and adjustable flow rate control
- Self-sealing with “suck back” to avoid dripping
- Single (1K) and two (2K) component dispensing

Single-Component Volumetric Dispensing Systems

LOCTITE® volumetric compact rotor pumps work with positive displacement technology in comparison to conventional pressure-time systems. The dispensed volumes are virtually independent of fluctuations caused by changes in temperature and viscosity providing excellent accuracy and repeatability.

EQ RC15: Single Rotor Pump Controller

Equipment Features:

- 3 operating modes: quantity, time, start-stop
- 3 storable programs
- Compatible with pump types IDHs 1196160 / 1741601 and can also interface with a Rotorspray 97115.
- 3” touchscreen menu navigation (resistive touchscreen)
- Reservoir connection, pressure and level monitoring.
- All Henkel standard connections are available:
  - XS1 Start
  - XS2 Reservoir
  - XS10 PLC
  - XS16 Rotor Spray
- IDH No.: 1880232
### Single-Component Volumetric Rotor Pumps

#### Compact Rotor Pump 4.0
- **IDH No.:** 1196160

**Equipment Features:**
- Minimum dispensing volume: 4 µl
- Theoretical volume flow: 500 up to 6000 µl/min
- Rotor speed: 0-120 RPM
- Accuracy: ±1%

#### Compact Micro Rotor Pump 1.0
- **IDH No.:** 1741601

**Equipment Features:**
- Minimum dispensing volume: 1 µl
- Theoretical volume flow: 120 up to 1480 µl/min
- Rotor speed: 0-120 RPM
- Accuracy: ±1%

### Two-Component Volumetric Dispensing System:

#### MM25 Dual Rotor Pump 4.0 LC:
- **IDH No.:** 1774437

**Equipment Features:**
- Minimum dispensing volume: 5 µl for each pump
- Theoretical volume flow: 100 to 6000 µl/min for each pump
- Mixing ratios: 1:1, 2:1, 4:1, 10:1 (Consult Henkel for other mix ratios)
- Accuracy: ±1%

**Accessory:** Feeding system

#### Controller for Volumetric Dual Rotor Pump: IDH No.: 1533495

**Equipment Features:**
- 3 operating modes: quantity, time, start-stop
- 24 storable programs (MMC/SD-Card)
- Dispense start: Push-button, foot-switch, 24 V signal
- Interface: RS232, USB
- Dispense pressure control: 0 to 40 bar (optional sensors required)
- Data analysis: Dispensing pressure curve graphically displayed. Maximum pressure warning from the controller.
- Dispense pressure control: 0 to 40 bar (optional sensors required)

**Process monitoring:** Process monitoring

**Accessory:**
- MM31 400 ml Dual Cart. Dipensers
- IDH No: 1845696
- Pressure sensor
- IDH No: 1528963
- Cable extension for pressure sensor
- IDH No: 1562190
Overview of compatible standard equipment for the volumetric rotor pump systems:
The different viscosities of products play an important role in the proper selection of the dispensing system. The following table is intended to help in the selection and give a general overview.

<table>
<thead>
<tr>
<th>Viscosity (mPas/cPS)</th>
<th>Water</th>
<th>Salad Oil</th>
<th>Motor Oil</th>
<th>Sauce</th>
<th>Ketchup</th>
<th>Mayonnaise</th>
<th>Mustard</th>
<th>Hand Cream</th>
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### Reference Table: Dispensing Technologies and Viscosity

**Dosed dot sizes:**

- \( v: 0.0001 \)  \( d: 0.73 \)
- \( v: 0.0003 \)  \( d: 1.05 \)
- \( v: 0.0005 \)  \( d: 1.24 \)
- \( v: 0.001 \)  \( d: 1.56 \)
- \( v: 0.003 \)  \( d: 2.25 \)
- \( v: 0.005 \)  \( d: 2.67 \)
- \( v: 0.01 \)  \( d: 3.37 \)
- \( v: 0.03 \)  \( d: 4.86 \)
- \( v: 0.05 \)  \( d: 5.78 \)
- \( v: 0.07 \)  \( d: 6.44 \)
- \( v: 0.1 \)  \( d: 7.26 \)

**Dosed bead sizes:**

- 0.25 (mm)
- 0.5
- 1.0
- 1.5
- 2.0
- 2.5
- 3.0

**Needle Valves**

**Jet Dispenser**

**Diaphragm Valves**

**Volumetric Rotor Dispenser**

**Peristaltic Pumps**

**Auger Valves**

\( v: \) ml (volume)

\( d: \) mm (diameter)
The different viscosities of products play an important role in the proper selection of the dispensing system. The following table is intended to help in the selection and give a general overview.

<table>
<thead>
<tr>
<th>USA</th>
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<tbody>
<tr>
<td>Henkel Corporation</td>
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<tr>
<td>One Henkel Way</td>
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<td>Rocky Hill, CT 06067</td>
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<td>Phone: +1-860-571-5100</td>
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<td>Fax: +1-860-571-5465</td>
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