The VT-06 is designed for quality control applications in the manufacturing process of industrial products such as petrochemicals, paint, and adhesives, as well as foodstuffs. Viscosity measurements covering a wide range are possible, such as gear oil used in construction machinery. Measurement is performed by simply submerging a rotor in the fluid. The resistance to rotor movement caused by the viscosity (torque) is measured to obtain direct readings.

- Compact and lightweight make the unit easily portable and allow operation with one hand
- Can be powered by alkaline batteries, nickel-hydride rechargeable batteries, or AC adapter
- Direct indication of viscosity in millipascal-seconds or decipascal-seconds (SI units)
- Dedicated stand for measurement available as option

[Usage]
1. Attach rotor to unit and hold unit in the hand or place on dedicated stand. (Unit should be approximately horizontal in either case.)
2. Insert rotor in sample fluid, turn power on, and select rotor number.
3. Press start button and read indicated viscosity.

※ The supplied extension rod can reach fluid that is further away. (Only for use with the No.1 and No.2 rotors.)
Specifications

Measurement range
No. 1 rotor: 0.3 to 10000 dPa·s (with No. 3 cup)
No. 1 rotor: 0.3 to 1500 dPa·s (with JIS 300 mL beaker*)
No. 2 rotor: 100 to 40000 dPa·s (with JIS 300 mL beaker**)
Sample fluid capacity
No. 1 and No. 2 rotor (with JIS 200 mL beaker*) approx. 300 mL
No. 3 rotor (with No. 3 cup) approx. 150 mL

Measurement accuracy
±10 % of digit of indicated value, reproducibility ±5 %

Power supply
IEC LR6 (size AA) alkaline batteries, nickel-hydride rechargeable batteries, AC adapter VA-65U

Rotors and Cups (unit: mm)

<table>
<thead>
<tr>
<th>No.1 Rotor</th>
<th>No.2 Rotor</th>
<th>No.3 Rotor</th>
<th>No.3 Cup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø52.5 x 75</td>
<td>Ø52.5 x 75</td>
<td>Ø52.5 x 75</td>
<td>Ø52.5 x 75</td>
</tr>
<tr>
<td>10 x 10</td>
<td>6 x 6</td>
<td>5 x 5</td>
<td>5 x 5</td>
</tr>
</tbody>
</table>

Sample amount for measurement

No.3 Cup approx. 150 mL
Commercially available 300 mL beaker approx. 350 mL

Note: For certain fluids, readings may differ slightly from other viscometers, depending on properties of target fluids, mechanical factors, as well as specific gravity, rotor speed, and other aspects.

Viscometer measurement examples (for reference)

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Viscosity (dPa·s)</th>
<th>Rotor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutronic fluid</td>
<td>6 dPa·s</td>
<td>No.3</td>
</tr>
<tr>
<td>Castor oil</td>
<td>1000 dPa·s</td>
<td>No.2</td>
</tr>
<tr>
<td>Syrup</td>
<td>1000 dPa·s</td>
<td>No.2</td>
</tr>
<tr>
<td>Condensed milk</td>
<td>16 dPa·s</td>
<td>No.1</td>
</tr>
<tr>
<td>Chocolate syrup</td>
<td>25 dPa·s</td>
<td>No.1</td>
</tr>
<tr>
<td>Tomato ketchup</td>
<td>45 dPa·s</td>
<td>No.1</td>
</tr>
<tr>
<td>Pure honey</td>
<td>76 dPa·s</td>
<td>No.1</td>
</tr>
<tr>
<td>Toothpaste</td>
<td>300 dPa·s</td>
<td>No.2</td>
</tr>
<tr>
<td>Starch paste</td>
<td>310 dPa·s</td>
<td>No.2</td>
</tr>
</tbody>
</table>

* Measurement temperature: 20 °C

CGS Unit and SI Unit

1 cP = \frac{1}{1000} \text{Pa}\cdot\text{s} = 0.01 \text{dPa}\cdot\text{s}

1 P = \frac{1}{10} \text{Pa}\cdot\text{s} = 1 \text{dPa}\cdot\text{s}

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