From the basic unit to the corrosion-resistant model, the laboratory dedicated syringe line offers precision instruments you can trust. Intended for safe and reliable liquid distribution, the selection of pistol-grip and two-ring instruments comes in a wide volume range. One-year warranty.

**The Dosys™ syringes**

**Product advantages**
- Optimal hand balance and ergonomics
- Fast and reliable volume setting
- Excellent reproducibility
- Plunger tightness without O-ring
- High chemical resistance
- Fully autoclavable at 121°C / 250°F

**Simple, natural movements**
Both pistol-grip and two-ring handles fit any hand in a comfortable way. Activation performed with limited effort for efficient work even during long dispensing series.

**Syringe stand**
Stand holds syringe in ready-to-fetch position. Easy-to-clean material. Autoclavable (Cat. No. 320.170).

**Volume selection – Reliable reproducibility**
Volume is set within seconds. It will not vary while activating the syringe, thanks to the safety-locking nut on the micrometric screw. Dose-by-dose reproducibility (CV) is excellent, as witnessed by performance figures.

**Plunger tightness without O-ring**
Smooth plunger travel and tightness achieved through high-precision stainless steel plunger and ground glass barrel. No O-ring to mess with or replace.

**Glass protection**
Interchangeable glass barrel is protected by a PVC sleeve (not autoclavable) to prevent breakage.

**Few parts assembly – Low maintenance**
The automatic syringes are made of only six main parts, easy to disassemble. Fast access to all elements allows rapid and efficient cleaning. Spares are available at reasonable cost.
**Dosys™ laboratory syringes – Unlimited applications**

**Dosys™ basic syringes 162 / 172**
- Fill-by-fill (automatic) through needle or cannula
- Supplied without valve system
- Luer Lock nozzle

Package includes syringe, PVC protection sleeve and operating instructions.

**Dosys™ classic syringes 163 / 173**
- Self-refilling automatic
- Integrated valve system
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration and vent cannulas, set of spares for valve, operating instructions.

**Dosys™ premium syringes 164 / 174**
- Self-refilling automatic
- Detachable valve system
- Enhanced corrosion resistance
- Luer Lock nozzle

Package includes syringe, one meter silicone feed tube, sinker, PVC protection sleeve, aspiration, vent and dosing cannulas, set of spares for valve, operating instructions.

**Instrument descriptions and ordering information**

**Performance all models**

<table>
<thead>
<tr>
<th>Volume</th>
<th>Imprecision (CV%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. vol.</td>
<td>Mid. vol.</td>
</tr>
<tr>
<td>0.025 – 0.3 mL</td>
<td>&lt; 1.8%</td>
</tr>
<tr>
<td>0.1 – 0.5 mL</td>
<td>&lt; 1.2%</td>
</tr>
<tr>
<td>0.1 – 1 mL</td>
<td>&lt; 0.7%</td>
</tr>
<tr>
<td>0.3 – 2 mL</td>
<td>&lt; 0.6%</td>
</tr>
<tr>
<td>0.5 – 5 mL</td>
<td>&lt; 0.5%</td>
</tr>
<tr>
<td>1 – 10 mL</td>
<td>&lt; 0.5%</td>
</tr>
<tr>
<td>5 – 20 mL</td>
<td>&lt; 0.5%</td>
</tr>
</tbody>
</table>

Tests performed with bidest. water, using stainless steel cannula (1.2x50 mm), at constant working speed. 1) Measured at 0.075 mL.

**Liquid path materials (for chemical resistance)**

<table>
<thead>
<tr>
<th>Parts</th>
<th>Basic / classic models</th>
<th>Premium models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed tubing</td>
<td>Silicone</td>
<td>Silicone</td>
</tr>
<tr>
<td>Barrel</td>
<td>Borosilicate glass</td>
<td>Borosilicate glass</td>
</tr>
<tr>
<td>Washer, barrel</td>
<td>FPM</td>
<td>FPM</td>
</tr>
<tr>
<td>Plunger</td>
<td>Stainless steel DIN 304</td>
<td>Stainless steel DIN 316L</td>
</tr>
<tr>
<td>Valve system</td>
<td>Ni-Cr Brass</td>
<td>Stainless steel DIN 316L</td>
</tr>
<tr>
<td>Washer, valve</td>
<td>PTFE</td>
<td>PTFE</td>
</tr>
<tr>
<td>Spring and balls, valve</td>
<td>Stainless steel, DIN 304</td>
<td>Stainless steel, DIN 304</td>
</tr>
<tr>
<td>Sinker, feed cannula</td>
<td>Ni-Cr Brass</td>
<td>Ni-Cr Brass</td>
</tr>
</tbody>
</table>

**Corrosion resistant**
**Accessories for self-refilling syringes**

**Alternative feed sources**
Optional vial holder conversion set and reagent reservoirs for additional liquid feeding possibilities.

**Dispensing needles & cannulas**
Luer Lock, stainless steel, autoclavable.

**Enhanced tightness set**
The special clear glass barrel / X-ring fitted plunger enhance tightness when demanded by application (ex. filtration, aspiration, etc.).

**Aspiration valve**
Reverse modus valve set for liquid aspiration (ex. waste collection in separate container). Ventilated waste collector cap and enhanced tightness set recommended.

**Anti-Blocking Factor (ABF™) premium anti-corrosive lubricant**
Reduces instrument wear, provides efficient metal protection.

**Injection needles**
Beveled, high-quality needles, stainless steel, autoclavable. 12 / pack.

**Cleaning brushes**
Heavy-duty nylon brushes with tufted end and plastic handle for barrel cleaning.

**Dispensing manifolds**

**Dispersing needles & cannulas**
Luer Lock, stainless steel, autoclavable.

**Cannula with sprayer nozzle**
Luer Lock, stainless steel, autoclavable.
The Dosys™ all-glass syringes

The reusable borosilicate glass syringes offer superior chemical and heat-shock resistance. A precious, low-cost alternative to disposable plastic syringes, complementing the self-refilling models in many applications.

Product advantages
- Precision-machined plunger and barrel
- Excellent fitting and liquid tightness (not gas tight)
- Permanent, high-visibility graduations
- Autoclavable at 121°C / 250°F

Ordering information

<table>
<thead>
<tr>
<th>Volume</th>
<th>Division (mL)</th>
<th>Packaging</th>
<th>Glass Luer nozzle Cat. No.</th>
<th>Metal Luer Lock nozzle Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 - 1 mL</td>
<td>0.05 mL</td>
<td>3 / pk</td>
<td>155.0301</td>
<td>155.0501</td>
</tr>
<tr>
<td>0.5 - 2 mL</td>
<td>0.1 mL</td>
<td>3 / pk</td>
<td>155.0302</td>
<td>155.0502</td>
</tr>
<tr>
<td>0.2 - 5 mL</td>
<td>0.2 mL</td>
<td>3 / pk</td>
<td>155.0305</td>
<td>155.0505</td>
</tr>
<tr>
<td>1 - 10 mL</td>
<td>1 mL</td>
<td>2 / pk</td>
<td>155.0310</td>
<td>155.0510</td>
</tr>
<tr>
<td>1 - 20 mL</td>
<td>2 mL</td>
<td>2 / pk</td>
<td>155.0320</td>
<td>155.0520</td>
</tr>
<tr>
<td>1 - 30 mL</td>
<td>1 mL</td>
<td>2 / pk</td>
<td>155.0330</td>
<td>155.0530</td>
</tr>
<tr>
<td>1 - 50 mL</td>
<td>2 mL</td>
<td>1 / pk</td>
<td>155.0350</td>
<td>155.0550</td>
</tr>
<tr>
<td>10 - 100 mL</td>
<td>10 mL</td>
<td>1 / pk</td>
<td>155.03100</td>
<td>155.05100</td>
</tr>
<tr>
<td>10 - 150 mL</td>
<td>10 mL</td>
<td>1 / pk</td>
<td>155.05150</td>
<td>155.05150</td>
</tr>
<tr>
<td>10 - 200 mL</td>
<td>10 mL</td>
<td>1 / pk</td>
<td>155.05200</td>
<td>155.05200</td>
</tr>
<tr>
<td>10 - 250 mL</td>
<td>10 mL</td>
<td>1 / pk</td>
<td>155.05250</td>
<td>155.05250</td>
</tr>
</tbody>
</table>

Other spare parts
Refer to separate list for exhaustive selection.
Important information

Refer to package inserts for safety precautions, operating instructions and warranty terms.

User must pay special attention to possible hand fatigue during serial pipetting and its medical consequences such as repetitive strain injuries (RSI).

Mind risks involved in handling hazardous liquids with respect to personal, third party and environmental protection and safety.

Products and specifications are subject to change without prior notice.