Easypump® ST/LT
Elastomeric Pump Systems for Short-Term and Long-Term Infusions
Benefits for Pharmacy

Increasing Efficiencies
- Silicone elastomer designed for easy filling
- Transparent balloon construction to help facilitate easier inspection for particulates
- Color coding for flow rate identification
- Air eliminating filter and particulate filter
- Comprehensive drug compatibility and stability data
- No programming or rate changing necessary
- Requires no batteries or electric devices
- Versatile use for:
  - Antibiotic therapy
  - Chemotherapy
- Components are not made with natural rubber latex or DEHP

Benefits for Nursing

Patient Satisfaction
- Designed for ease of use
- Color coding by flow rate for distinction when multiple drugs are prescribed
- No programming required
- “Sliding Core” technology designed for consistent, concentric balloon contraction
- Single-use system designed for clean and easy handling
- Continuous flow rate designed for increased accuracy
- Unique Comfort Cap design helps protect filling port
- Components are not made with natural rubber latex or DEHP

Easypump ST/LT delivers the benefits you require.
Benefits for Patients

Staying mobile

- Small, light-weight design makes pump easy to transport in a discreet carry pouch
- Requires no batteries, power cords or IV poles, helping to make it easier for patient to return to normal activities sooner
- Fixed flow rate design requires no programming or drop counting
- Easypump ST/LT is disposable and is designed to be safely disconnected and discarded immediately after the pump is empty
- Components are not made with natural rubber latex or DEHP

Patented Design

Easypump® ST/LT elastomeric infusion pumps are designed to give clinicians and nurses the option to deliver pre-determined amounts of medication to the patient in a continuous and accurate manner, either in the hospital or at home.

Easypump ST/LT features a patented “Sliding Core” designed to help ensure the pump reservoir is filled and contracts in a consistent, concentric manner. Medication is delivered to the patient by positive pressure applied by the elastomeric membrane. The flow rate is determined by the combination of the flow regulation device (flow restrictor) and the positive pressure of the elastomeric membrane. This pressure delivers the solution against the back-pressure of the vascular access device and blood pressure in the vein. Back-pressure affects the flow rate.

U.S. Patent # 8,523,815 B2
### Easypump® ST/LT

1. **Comfort Cap**
2. **Filling Port Cap**
3. **Reservoir: containing drug**
4. **Clamp: to start and stop infusion**
5. **Filter: to eliminate air (0.22 microns) and particles (1.2 microns)**
6. **Flow Restrictor**
7. **Patient End Cap**
Easy, Consistent Filling

1. **Flip open Comfort Cap (1).** Use aseptic technique; always follow USP<797> guidelines.

2. **Remove Filling Port Cap and place on sterile surface (2).** Close Clamp (3).

3. **Attach Luer Lock Syringe (or other filling device) to Filling Port (4).**

4. **Inject 3-4cc normal saline to prime the line (5).**

5. **Remove distal Patient End Cap (6).** Release Clamp to purge line of all air (7).

6. **Prime until a drop is observed at distal end of line.** After priming, re-clamp line (8) and reattach Patient End Cap (9).

7. **Prime until a drop is observed at distal end of line.** After priming, re-clamp line (8) and reattach Patient End Cap (9).

8. **Prime until a drop is observed at distal end of line.** After priming, re-clamp line (8) and reattach Patient End Cap (9).

9. **Prime until a drop is observed at distal end of line.** After priming, re-clamp line (8) and reattach Patient End Cap (9).

10. **Disconnect syringe used for filling and attach syringe (or other filling device) with drug to Filling Port.** Inject drug into pump and repeat until required drug volume is achieved (10). Invert pump and use both hands on syringe as shown above. Do not push down on pump while filling, as syringe tip may break.

11. **When filling is complete, remove syringe and reattach Filling Port Cap and close Comfort Cap (11).** The Easypump ST/LT is now ready to be connected to patient’s vascular access device. Store in intermediary transport bag if connection is not to be made immediately.

**Priming technique for drugs prone to precipitation**

Using the directions for filling above, fill Easypump ST/LT with approximately 10mL of normal saline. Follow the priming instructions above (steps 6 through 9). Fill remaining volume with drug. At completion, normal saline will fill the tubing line protecting it from precipitation, while the pump reservoir will contain the drug. Do not open Clamp until ready to attach to patient. This technique should be used for any drug prone to precipitation.

Refer to product labeling for complete instructions for use.
# Product Specifications and Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Nominal filling volume</th>
<th>Nominal flow rate</th>
<th>Nominal infusion time</th>
<th>Code No. (REF)</th>
<th>Pumps per case</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easypump LT 125-25-S</td>
<td>125 mL</td>
<td>5 mL/h</td>
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<td>10</td>
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<td>100 mL/h</td>
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<tr>
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<td>250 mL/h</td>
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<td>Easypump ST 250-4-S</td>
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<td>100 mL/h</td>
<td>4 h</td>
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</tbody>
</table>

| Carry Pouch – Small | For 50mL to 270mL Volume Pumps | 4434447-02 | 300 |
| Carry Pouch – Large | For 300mL and large Volume Pumps | 4434455-02 | 300 |

Clear differentiation between long-term and short-term Easypumps through color and shape of sticker.

<table>
<thead>
<tr>
<th>ST</th>
<th>LT</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ST sticker]</td>
<td>![LT sticker]</td>
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</table>

To order call 1-800-227-2862
www.bbraunusa.com

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### Important facts

**Temperature dependency:** Easypump ST/LT is designed to work at room temperature 73°F ± 3.6°F (23°C ± 2°C). The flow restrictor is calibrated to work at 88°F (31°C). To maintain a stable flow rate the flow restrictor should be in close contact with the patient’s skin at all times. For every 1°F above or below this temperature, the flow rate will increase or decrease by approximately 2%. An increase in temperature results in an increase in flow rate and vice versa.

- **Nominal Flow Rates:** When filled to nominal volume, the flow accuracy is ±15% of the labeled flow rate.
- **Storage:** Easypump ST/LT may be refrigerated or stored in a freezer, however, before using Easypump ST/LT it should be warmed to room temperature.
- **Underfilling/overfilling:** Filling the pump less than nominal volume generally results in a faster flow rate. Filling the pump more than the nominal volume generally results in a slower flow rate.
- **Diluent dependency:** Easypump ST/LT flow rates are calculated using 0.9% NaCl (normal saline). Using dextrose (D5W) as diluent or the addition of any drug of a higher viscosity than normal saline will increase delivery time (e.g. by 10% in the case of D5W).
- **Ambient pressure dependency:** Easypump ST/LT should be used within an ambient pressure between 86kPa and 106kPa (standard sea-level pressure is 101kPa).