



Clinical Guide



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Why Choose EZ-FLOW[™] Elastomeric Pumps?

EZ-FLOW[™] Elastomeric Pumps are proven to be safe and effective and a convenient alternative to electronic infusion pumps. Ideally suited for infusion, long-term care, and outpatient chemotherapy treatments, EZ-FLOW[™] gives the patient mobility and freedom to maintain an active lifestyle.

How Does the EZ-FLOW[™] Elastomeric Pump Work?

EZ-FLOW[™] delivers medication using a specially designed, multi-layered balloon-like reservoir. The pump exerts mechanical pressure, thereby administering the pump contents through an orifice tube at a predetermined flow rate. The rate is controlled by a flow restrictor at the end of the tubing and by flow restrictive tubing (EZ-FLOW[™] Long Duration and Chemotherapy only). When used according to manufacturer's recommendations and instructions for use, flow accuracy is within +/- 15% of the nominal (label) flow rate (at 99% confidence level) when filled at nominal volume.



Welcome to IMED's EZ-Flow Elastomerics Benefits Guide

Our newest IMed Products line, EZ-FLOW[™] elastomeric pumps, are a convenient alternative to electronic infusion pumps. Each elastomeric has a color code associated with it, which correlates to the flow rate. The EZ-FLOW[™] elastomeric pump offers a safe and effective way to deliver medications while allowing patients freedom in their day-to-day lives without the worry of programming and battery power.



Fixed flow rate design requires no programming or drop counting.



Its small, lightweight design makes the Elastomeric Pump easy to transport in a discreet carry pouch.



Single-use only and designed to be safely disconnected and discarded.



No batteries, power cords, or IV poles required.





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EZ FLOW

Versatility

EZ-FLOW[™] Elastomeric Pumps offer unparalleled versatility, catering to a wide range of medical applications including infusion therapy, long-term care, and outpatient chemotherapy treatments. Their adaptable design makes them suitable for various treatment scenarios, ensuring patients receive optimal care in different healthcare settings.

Drug Compatibility

Extensive drug compatibility studies and USFDA clearance certify EZ-FLOW[™] Elastomeric Pumps for safe and effective use with a diverse range of medications. This compatibility ensures healthcare providers have flexibility in prescribing treatments, accommodating individual patient needs and preferences.

Priming Cap

The innovative priming cap featured on EZ-FLOW[™] Elastomeric Pumps eliminates the need for a pinch clamp during priming. This unique feature streamlines the setup process, saving time and reducing the risk of errors; enhancing overall workflow efficiency.

Efficiency

EZ-FLOW[™] Elastomeric Pumps optimize efficiency in medication delivery through calibrated flow rates and a user-friendly design. With no pinch clamp required during priming and a fixed flow rate that eliminates the need for programming, these pumps simplify infusion procedures, saving time and reducing the likelihood of errors.

Performance

The performance of EZ-FLOW[™] Elastomeric Pumps is unmatched, delivering precise and consistent medication doses to patients. Calibrated for accuracy and featuring innovative features like the priming cap, these pumps ensure reliable performance in various healthcare settings, enhancing patient safety and treatment efficacy.

Patient Benefits

Patients benefit greatly from the use of EZ-FLOW[™] Elastomeric Pumps. The simple connection process and consistent medication delivery ensure a positive treatment experience. Patients can have confidence in the accuracy and reliability of their infusion therapy, leading to improved health outcomes and patient compliance.



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The EZ-FLOW[™] Elastomeric Pump is easy to fill and color-coded for quick and accurate device identification. A wide variety of sizes and flow rates are available along with an extensive library of drug stability data. The range of items (sizes) available offers dosing flexibility to administer various infusion therapies. Please refer to the Fill Volume and Delivery Time Tables in this guide as well as the Drug Stability Guide to help determine which product is best suited for the needed therapy.

Drug Stability

Drug Stability data is available on a wide range of medications. The Drug Stability Guidelines for the administration of medications using the EZ-FLOW[™] were developed as a result of testing performed by independent laboratories, review of various medical publications and manufacturers' product information, and available elastomeric infusion pump drug stability data. The stability data relates to chemical stability of the drugs tested, not to sterility.

The pharmacist dispensing the drug is responsible for ensuring proper preparation using validated aseptic techniques to prevent microbiological contamination. For practice and quality standards, refer to USP <797> Pharmaceutical Compounding – Sterile Preparations and USP <800> Hazardous Drugs - Handling in a Healthcare Setting.

Contact your Territory Manager at 800.755.3800, or our website, <u>www.integratedmedsys.com</u> for the most up to date drug stability information.

Fill Volumes & Delivery Times

Refer to the tables on the following pages to determine the appropriate pump model based on the fill volume and desired delivery time. Residual volume information is also included.

The EZ-FLOW[™] nominal flow rates are based on sodium chloride (0.9%, 31° C/88° F) as reference. Use of 5% dextrose will result in 10% slower flow rate or correspondingly 10% longer delivery time.

Note:

- Delivery times for partial or overfill volumes are approximate values
- Filling the pump more than the nominal fill volume results in a slower flow rate
- Filling the pump less than nominal fill volume results in a faster flow rate
- Do not fill the pump less than the minimal or more than the maximum fill volume specified on the chart
- It is recommended that the EZ-FLOW[™] be filled with diluent before adding the drug/medication

EZ-FLOW Elastomeric Pumps - Short Duration Filling Guide

| Item # | IM050050S | IM100050S | IM100100S | IM100200S | IM200100S | IM200200S | IM250050S | IM250100S |
|------------------------|-----------|-----------|------------|------------|------------|------------|-----------|------------|
| Nominal Fill Volume | 50mL | 100mL | 100mL | 100mL | 200mL | 200mL | 250mL | 250mL |
| Nominal Flow Rate | 50mL/Hour | 50mL/Hour | 100mL/Hour | 200mL/Hour | 100mL/Hour | 200mL/Hour | 50mL/Hour | 100mL/Hour |
| Min Fill Volume | 50mL | 75mL | 50mL | 50mL | 150mL | 150mL | 150mL | 200mL |
| Max Fill Volume | 60mL | 110mL | 120mL | 120mL | 250mL | 300mL | 300mL | 300mL |
| Residual Volume | 2mL | 2mL | 2mL | 2mL | 3mL | 2mL | 3mL | 3mL |

| Item # | IM250125S | IM250175S | IM250250S | IM250500S | IM270175S | IM400100S | IM400200S | IM500250S |
|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Nominal Fill Volume | 250mL | 250mL | 250mL | 250mL | 270mL | 400mL | 400mL | 500mL |
| Nominal Flow Rate | 125mL/Hour | 175mL/Hour | 250mL/Hour | 500mL/Hour | 175mL/Hour | 100mL/Hour | 200mL/Hour | 250mL/Hour |
| Min Fill Volume | 150mL | 140mL | 150mL | 200mL | 150mL | 275mL | 200mL | 360mL |
| Max Fill Volume | 300mL | 300mL | 300mL | 230mL | 300mL | 550mL | 500mL | 550mL |
| Residual Volume | 3mL | 3mL | 3mL | 3mL | 3mL | 5mL | 5mL | 5mL |

| Item # | Nominal Fill Volume (mL) | Nominal Flow Rate (mL/h) | Nominal Duration (Min) | Approx. Nominal Duration (Hrs) | QTY | Color Code |
|-----------|-----------------------------|-----------------------------|---------------------------|-----------------------------------|---------|------------|
| IM050050S | 50mL | 50mL/hr | 60 Min | 1 Hour | 24/Case | Green |
| IM100050S | 100mL | 50mL/hr | 120 Min | 2 Hours | 24/Case | Green |
| IM100100S | 100mL | 100mL/hr | 60 Min | 1 Hour | 24/Case | White |
| IM100200S | 100mL | 200mL/hr | 30 Min | 0.5 Hours | 24/Case | Light Blue |
| IM200100S | 200mL | 100mL/hr | 120 Min | 2 Hours | 24/Case | White |
| IM200200S | 200mL | 200mL/hr | 60 Min | 1 Hour | 24/Case | Light Blue |
| IM250050S | 250mL | 50mL/hr | 300 Min | 5 Hours | 24/Case | Green |
| IM250100S | 250mL | 100mL/hr | 150 Min | 2.5 Hours | 24/Case | White |
| IM250125S | 250mL | 125mL/hr | 120 Min | 2 Hours | 24/Case | Yellow |
| IM250175S | 250mL | 175mL/hr | 90 Min | 1.5 Hours | 24/Case | Navy Blue |
| IM250250S | 250mL | 250mL/hr | 60 Min | 1 Hour | 24/Case | Grey |
| IM250500S | 250mL | 500mL/hr | 30 Min | 0.5 Hours | 24/Case | Maroon |
| IM270175S | 270mL | 175mL/hr | 90 Min | 1.5 Hours | 24/Case | Navy Blue |
| IM400100S | 400mL | 100mL/hr | 240 Min | 4 Hours | 24/Case | White |
| IM400200S | 400mL | 200mL/hr | 120 Min | 2 Hours | 24/Case | Light Blue |
| IM500250S | 500mL | 250mL/hr | 120 Min | 2 Hours | 24/Case | Grey |

| 50 | 100 | 125 | 175 | 200 | 250 | 500 |
|-------|-------|-------|-------|-------|-------|-------|
| mL/hr |

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| Hours:Min | IM050050S | IM100050S | IM100100S | IM100200S | IM200100S | IM200200S | IM250050S | IM250100S |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0:15 | | | | 50mL | | | | |
| 0:30 | | | 50mL | 100mL | | | | |
| 0:45 | | | 75mL | 120mL | | 150mL | | |
| 1:00 | 50mL | | 100mL | | | 200mL | | |
| 1:15 | 60mL | | 120mL | | | 250mL | | |
| 1:25 | | | | | | | | |
| 1:30 | | 75mL | | | | 300mL | | |
| 1:45 | | | | | | | | |
| 1:55 | | | | | | | | |
| 2:00 | | 100mL | | | 200mL | | | 200mL |
| 2:15 | | 110mL | | | | | | 220mL |
| 2:30 | | | | | | | | 250mL |
| 2:45 | | | | | 250mL | | | 275mL |
| 3:00 | | | | | | | 150mL | 300mL |
| 3:30 | | | | | | | | |
| 4:00 | | | | | | | | |
| 4:30 | | | | | | | | |
| 5:00 | | | | | | | 250mL | |
| 5:30 | | | | | | | 275mL | |

Approximate Delivery Times - Short Duration Pumps

| Hours:Min | IM250125S | IM250175S | IM250250S | IM250500S | IM270175S | IM400100S | IM400200S | IM500250S |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0:15 | | | | | | | | |
| 0:30 | | | 150mL | 250mL | | | | |
| 0:45 | | 140mL | 200mL | 300mL | 150mL | | | |
| 1:00 | | 175mL | 250mL | | | | 200mL | |
| 1:15 | 150mL | 220mL | 300mL | | | | 250mL | 360mL |
| 1:25 | | | | | | | | |
| 1:30 | 180mL | 250mL | | | 270mL | | 300mL | 400mL |
| 1:45 | 220mL | 300mL | | | 300mL | | 350mL | 475mL |
| 1:55 | | | | | | | | |
| 2:00 | 250mL | | | | | | 400mL | 500mL |
| 2:15 | 280mL | | | | | | 450mL | 550mL |
| 2:30 | 300mL | | | | | | 500mL | |
| 2:45 | | | | | | 275mL | | |
| 3:00 | | | | | | 300mL | | |
| 3:30 | | | | | | 360mL | | |
| 4:00 | | | | | | 400mL | | |
| 4:30 | | | | | | 450mL | | |
| 5:00 | | | | | | 500mL | | |
| 5:30 | | | | | | 550mL | | |

 50 mL/hr
 100 mL/hr
 125 mL/hr
 175 mL/hr
 200 mL/hr
 250 mL/hr
 500 mL/hr

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EZ-FLOW Elastomeric Pumps - Long Duration Filling Guide

| Item # | IM060005L | IM100002L | IM100005L | IM125005L | IM270001L | IM270002L | IM270004L | IM270005L | IM270010L | IM500020L |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Nominal Fill Volume | 60mL | 100mL | 100mL | 125mL | 270mL | 270mL | 270mL | 270mL | 270mL | 500mL |
| Nominal Flow Rate | 5mL/Hour | 2mL/Hour | 5mL/Hour | 5mL/Hour | 1mL/Hour | 2mL/Hour | 4mL/Hour | 5mL/Hour | 10mL/Hour | 20mL/Hour |
| Min Fill Volume | 30mL | 75mL | 75mL | 75mL | 270mL | 150mL | 230mL | 250mL | 230mL | 360mL |
| Max Fill Volume | 100mL | 110mL | 120mL | 150mL | 270mL | 300mL | 300mL | 360mL | 360mL | 500mL |
| Residual Volume | 2mL | 2mL | 2mL | 2mL | 3mL | 3mL | 3mL | 3mL | 3mL | 5mL |

| Item # | Nominal Fill Volume (mL) | Nominal Flow Rate (mL/h) | Nominal Duration (Hrs) | Approx. Nominal Duration (Days) | QTY | Color Code |
|-----------|-----------------------------|-----------------------------|---------------------------|---------------------------------------|---------|-------------|
| IM060005L | 60mL | 5mL/hr | 12 Hours | 0.5 Day | 24/Case | Brown |
| IM100002L | 100mL | 2mL/hr | 50 Hours | 2 Days | 24/Case | Yellow |
| IM100005L | 100mL | 5mL/hr | 20 Hours | 1 Day | 24/Case | Brown |
| IM125005L | 125mL | 5mL/hr | 25 Hours | 1 Day | 24/Case | Brown |
| IM270001L | 270mL | 1mL/hr | 270 Hours | 11 Days | 24/Case | Red |
| IM270002L | 270mL | 2mL/hr | 135 Hours | 6 Days | 24/Case | Yellow |
| IM270004L | 270mL | 4mL/hr | 67 Hours | 2.8 Days | 24/Case | Orange |
| IM270005L | 270mL | 5mL/hr | 54 Hours | 2 Days | 24/Case | Brown |
| IM270010L | 270mL | 10mL/hr | 27 Hours | 1 Day | 24/Case | Light Green |
| IM500020L | 500mL | 20mL/hr | 25 Hours | 1 Day | 24/Case | Maroon |

| 1 | 2 | 4 | 5 | 10 | 20 |
|-------|-------|-------|-------|-------|-------|
| mL/hr | mL/hr | mL/hr | mL/hr | mL/hr | mL/hr |

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Approximate Delivery Times - Long Duration Pumps

| Hours:Min | Day(s) | IM060005L | IM100002L | IM100005L | IM125005L | IM270001L | IM270002L | IM270004L | IM270005L | IM270010L | IM500020L |
|-----------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 05:00:00 | | 30mL | | | | | | | | | |
| 10:00:00 | | | | | | | | | | | |
| 12:00:00 | | 60mL | | | | | | | | | |
| 13:00:00 | | | | | 75mL | | | | | | |
| 14:00:00 | | | | 75mL | | | | | | | |
| 16:00:00 | | 80mL | | | | | | | | | |
| 18:00:00 | | | | | 100mL | | | | | | 380mL |
| 20:00:00 | | 100mL | | 100mL | | | | | | 230mL | 440mL |
| 24:00:00 | 1 | | | | | | | | | | |
| 25:00:00 | 1 | | | 120mL | 125mL | | | | | 250mL | 500mL |
| 27:00:00 | 1 | | | | | | | | | 270mL | |
| 30:00:00 | 1 | | | | | | | | | 300mL | |
| 32:00:00 | 1.3 | | | | 150mL | | | | | | |
| 35:00:00 | 1.5 | | | | | | | | | | |
| 36:00:00 | 1.5 | | 72mL | | | | | | | 330mL | |
| 40:00:00 | 1.5 | | 80mL | | | | | | | | |
| 46:00:00 | 1.5 | | 96mL | | | | | | 240mL | | |
| 50:00:00 | 2 | | 100mL | | | | | | 250mL | | |
| 54:00:00 | 2 | | 108mL | | | | | 230mL | 270mL | | |
| 60:00:00 | 2 | | | | | | | | | | |
| 62:00:00 | 2 | | | | | | | | | | |
| 67:00:00 | | | | | | | | 270mL | | | |
| 68:00:00 | | | | | | | | | | | |
| 72:00:00 | 3 | | | | | | | | 330mL | | |
| 75:00:00 | 3 | | | | | | | | | | |
| 77:00:00 | 3 | | | | | | | 300mL | | | |
| 80:00:00 | 3 | | | | | | 200mL | | | | |
| 100:00:00 | 4 | | | | | | 220mL | | | | |
| 125:00:00 | 5 | | | | | | 250mL | | | | |
| 135:00:00 | 6 | | | | | | 270mL | | | | |
| 144:00:00 | 6 | | | | | | 300mL | | | | |
| 250:00:00 | 12 | | | | | 250mL | | | | | |
| 270:00:00 | 12 | | | | | 270mL | | | | | |
| | 1 | | 2 | | 1 | | 5 | | | | |
| mL | /hr | | mL/hr | r | nL/hr | _m | nL/hr | 10 r | mL/hr | 20 n | nL/hr |

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EZ-FLOW Elastomeric Pumps - Chemotherapy Filling Guide

| Item # | IM100002C | IM125005C | IM270002C | IM270005C | IM270010C | IM300006C |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Nominal Fill Volume | 100mL | 125mL | 270mL | 270mL | 270mL | 300mL |
| Nominal Flow Rate | 2mL/Hour | 5mL/Hour | 2mL/Hour | 5mL/Hour | 10mL/Hour | 6mL/Hour |
| Min Fill Volume | 75mL | 75mL | 150mL | 240mL | 230mL | 250mL |
| Max Fill Volume | 120mL | 150mL | 300mL | 330mL | 360mL | 360mL |
| Residual Volume | 2mL | 2mL | 3mL | 3mL | 3mL | 3mL |

| Item # | Nominal Fill Volume (mL) | Nominal Flow Rate (mL/h) | Nominal Duration (Hours) | Approx. Nominal Duration (Days) | QTY | Color Code |
|-----------|-----------------------------|-----------------------------|--------------------------------|--|---------|-------------|
| IM100002C | 100mL | 2mL/hr | 50 Hours | 2 Days | 12/Case | Yellow |
| IM125005C | 125mL | 5mL/hr | 25 Hours | 1 Day | 12/Case | Brown |
| IM270002C | 270mL | 2mL/hr | 135 Hours | 6 Days | 12/Case | Yellow |
| IM270005C | 270mL | 5mL/hr | 54 Hours | 2 Days | 12/Case | Brown |
| IM270010C | 270mL | 10mL/hr | 27 Hours | 1 Day | 12/Case | Light Green |
| IM300006C | 300mL | 6mL/hr | 50 Hours | 2 Days | 12/Case | Pink |

| 2 | 5 | 6 | 10 |
|-------|-------|-------|-------|
| mL/hr | mL/hr | mL/hr | mL/hr |

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| Approximate Deliv | ery Times - | Chemotherapy | Pumps |
|-------------------|-------------|--------------|--------------|
|-------------------|-------------|--------------|--------------|

| Hours:Min | Day(s) | IM100002C | IM125005C | IM270002C | IM270005C | IM270010C | IM300006C |
|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| 16:00:00 | | | 75mL | | | | |
| 18:00:00 | | | | | | | |
| 20:00:00 | | | 100mL | | | 230mL | |
| 24:00:00 | 1 | | | | | | |
| 25:00:00 | 1 | | 125mL | | | 250mL | |
| 27:00:00 | 1 | | | | | 270mL | |
| 30:00:00 | 1 | | | | | 300mL | |
| 32:00:00 | | | 150mL | | | | |
| 36:00:00 | 1.5 | 75mL | | | | 330mL | |
| 40:00:00 | 1.5 | 80mL | | | | | 250mL |
| 46:00:00 | 1.6 | 96mL | | | 240mL | | 280mL |
| 48:00:00 | 2 | | | | 245mL | | |
| 50:00:00 | 2 | 100mL | | | 250mL | | 300mL |
| 54:00:00 | 2 | 108mL | | | 270mL | | 320mL |
| 60:00:00 | 2 | 120mL | | | | | |
| 62:00:00 | 2.5 | | | | | | 360mL |
| 72:00:00 | 3 | | | 150mL | 330mL | | |
| 75:00:00 | 3 | | | | | | |
| 80:00:00 | 3 | | | | | | |
| 96:00:00 | 4 | | | | | | |
| 100:00:00 | 4 | | | 210mL | | | |
| 125:00:00 | 5 | | | 260mL | | | |
| 135:00:00 | 6 | | | 270mL | | | |
| 144:00:00 | 6 | | | | | | |
| 150:00:00 | 6 | | | 300mL | | | |
| 168:00:00 | 7 | | | | | | |

| 2 | 5 | 6 | 10 |
|-------|-------|-------|-------|
| mL/hr | mL/hr | mL/hr | mL/hr |

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Instructions for Filling - Short Duration

Use Aseptic Technique

- 1. Unscrew the fill port cap
- 2. EZ-FLOW[™] Elastomeric Pump can be filled with a syringe or automated fluid dispensing device. Remove trapped air from the filling device and attach it securely to the fill port
- 3. Close the pinch clamp and fill the EZ-FLOW[™] Elastomeric Pump with no more than the maximum recommended volume. When using a syringe to fill, push the plunger to dispense the fluid. Do not push the barrel onto the fill port as the syringe tip or fill port may break. Repeat as necessary
- 4. Remove filling device from the fill port. Screw on the fill port cap
- 5. Label with appropriate pharmaceutical and patient information

Priming the Administration Tubing

Use Aseptic Technique

- 1. Open the pinch clamp
- 2. Loosen the patient end cap. Medication will start to flow and fill the tubing. When all air is expelled, tighten the patient end cap
- 3. Close the pinch clamp

Priming Technique for Drugs

For Drugs Prone to Precipitation

- 1. Fill EZ-FLOW[™] Elastomeric Pump with 10mL of diluent
- 2. Using the above priming method, prime the tubing
- 3. Fill the remaining volume with diluent and medication. At completion, the diluent will fill the entire tubing, protecting it from precipitation, while the pump reservoir will contain medication

Note:

Actual infusion time may vary due to the following:

- Filling the device less than the nominal volume generally results in faster flow rate
- Filling the device more than the nominal volume generally results in slower flow rate









Instructions for Filling - Long Duration & Chemotherapy

Use Aseptic Technique

- 1. Unscrew the fill port cap
- 2. EZ-FLOW[™] Elastomeric Pump can be filled with a syringe or automated fluid dispensing device. Removed trapped air from the filling device and attach it securely to the fill port
- 3. Note: the priming cap on long duration and chemotherapy pumps eliminates the use of the pinch clamp and removal of patient end cap when priming
- 4. Fill the EZ-FLOW[™] Elastomeric Pump with no more than the maximum recommended volume. When using a syringe to fill, push the plunger to dispense the fluid. Do not push the barrel onto the fill port as the syringe tip or fill port may break. Repeat as necessary
- 5. Remove filling device from the fill port. Screw on the fill port cap and close the pinch clamp
- 6. Label with appropriate pharmaceutical and patient information



Priming Technique for Drugs

For Drugs Prone to Precipitation

- 1. Fill EZ-FLOW[™] Elastomeric Pump with 10mL of diluent
- 2. Using the above priming method, prime the tubing
- 3. Fill the remaining volume with diluent and medication. At completion, the diluent will fill the entire tubing, protecting it from precipitation, while the pump reservoir will contain medication

Note:

Actual infusion time may vary due to the following:

- Filling the device less than the nominal volume generally results in faster flow rate
- Filling the device more than the nominal volume generally results in slower flow rate



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Storage

The EZ-FLOW[™] Elastomeric Pump should be stored under general warehouse conditions at 68° F to 77° F (20° C - 25° C) and be protected from light sources and heat prior to filling with medication. Refer to the drug manufacturer's requirements for storage after filling the pump with medication.

Prior to starting infusion, the pump should at room temperature.

The table below provides guidelines for the estimated amount of time it will take for the pump to reach room temperature after refrigeration based on the nominal fill volume. Please note the EZ-FLOW[™] Pump should not be stored in a freezer.

| Nominal Fill Volume | Refrigerated Temperature | Est. Time to Reach Room Temp | | |
|---------------------|-----------------------------------|------------------------------|--|--|
| 50mL - 100mL | 35.6° F to 46.4° F (+2° to +8° C) | 6 hours from refrigerator | | |
| 50mL - 100mL | -0.4° F (-18° C) | 12 hours from refrigerator | | |
| 100mL+ | 35.6° F to 46.4° F (+2° to +8° C) | 12 hours from refrigerator | | |
| 100mL+ | -0.4° F (-18° C) | 18 hours from refrigerator | | |



Starting Infusion

Use Aseptic Technique

- The EZ-FLOW[™] Elastomeric Pump should be at room temperature before use, especially when infusate has been refrigerated
- Infusion should preferably be started 1-8 hours after filling
- Verify that the pinch clamp is closed
- Clean patient access point site as directed by facility protocol
 Attach the patient connector to the injection site
- Begin infusion by opening the pinch clamp. Fluid will begin to flow immediately
- Ensure the pinch clamp remains in the open position and the tubing remains free of kinks
- If kinks are observed in the tubing they can be released by rolling the tubing between fingers to restore shape of tubing and facilitate fluid flow

During Infusion

- Depending on the size of the pump, you may notice a change in look and size of the pump fairly quickly. Note: It may take longer to see this change if the length of the infusion is more than 24 hours.
- Do not squeeze or play with the filled pump. Applied pressure may result in rupture or breakage and will result in increased flow rate.
- During use, place the pump in a carrying case, a pocket, or on a table/bed. Refer to page 20 for accessories available.
- Ensure the section of tubing from the filter to the luer tip connector is kept underneath clothing and in contact with the body.
- Do not use while bathing, showering, or swimming.
- Depending on therapy, if the patient is using the pump while sleeping:
 - Make sure the pump is placed on a bedside table or on top of the bed covers
 - Do not place the pump underneath the bed covers where the pump may become too warm
 - Do not place the pump on the floor or hang the pump on a bed post



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Full Pump





During Infusion



End of Infusion

Infusion is complete when the elastomeric membrane is no longer expanded.

- Close the pinch clamp and disconnect from access site.
- Flush access site and dispose of pump and supplies as directed by your healthcare provider.

Patient guides for the EZ-FLOW[™] Elastomeric Pump are available and should be provided to the patients prior to infusion. Healthcare providers are responsible for educating the patient on proper use.

Depending on the pump size, a change in the look and size of the pump may appear fairly quickly. It may take longer to see this change if the length of the infusion is more than 24 hours.

Note: Images used are EZ-FLOW[™] standard pumps and are used for visualization purposes only.

Troubleshooting

If pump does not seem to be working properly, please make sure:

- The pump is at room temperature.
- The pinch clamp is in the open position and moves freely on the tubing.
- All clamps on the catheter are open and filter is not covered.
- There are no kinks in the pump tubing.
- Verify that the fill volume is within the guidelines provided for the device that is being used. Underfilling the pump will cause it to flow faster than the labeled rate. Overfilling the pump will cause it to flow slower than the labeled flow rate.



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End of Infusion

Accessories Available from IMed Products

IMed Products[™] durable pouches are economical and stylish for patients receiving outpatient infusion therapies via elastomeric pumps; ideal for patients on the go. Perfect for use with EZ-FLOW Elastomeric Pumps!

| Item # | Description | Size | UOM |
|---------|-----------------------------|-------------------|--------|
| IM58010 | IMed Elastomeric Pump Pouch | Holds up to 200mL | 1/Each |
| IM58011 | IMed Elastomeric Pump Pouch | Holds up to 500mL | 1/Each |







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