

# CLINICAL GUIDE

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# OVERVIEW

EZ-FLOW Elastomeric Pumps are proven to be a safe, effective, and 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 without the use of batteries.

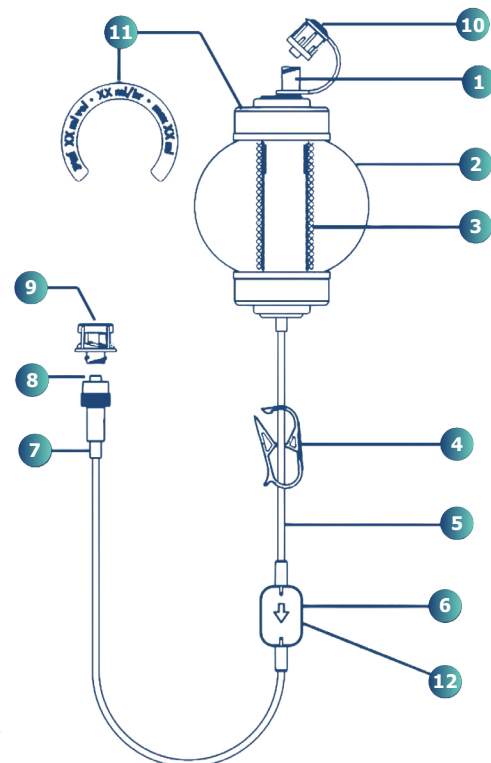
The balloon-like reservoir exerts mechanical pressure, which administers the medication at a controlled flow rate, determined by the restrictor and tubing.

Several environmental factors may impact the flow rate, resulting in shorter or longer infusion times during treatment. When filled to the label volume, the EZ-FLOW Elastomeric Pump accuracy is within +/- 15%.

IMed Products offers a wide range of sizes and flow rates along with extensive drug stability data, offering dosing flexibility across various infusion therapies.

## Product Diagram

- 1 Fill Port
- 2 Outer Soft Cover
- 3 Multi-Layered Elastomeric Membrane
- 4 On-Off Clamp
- 5 Non-DEHP PVC Administration Tubing
- 6 Air and Particulate Eliminating Filter
- 7 Flow Restrictor
- 8 Patient Connector
- 9 Non-Vented Cap (Short Duration Models) / Priming Cap (Long Duration & Chemotherapy Models)
- 10 Tethered Fill Port Cap
- 11 Fill Volume & Flow Rate Label
- 12 Flow Rate Label



## Fill Volumes & Delivery Times

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

The EZ-FLOW Elastomeric Pump 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, which is also 10% longer delivery time.

## Cautions

Actual infusion time may vary depending on fill volume, flow rate and other influencing factors. Learn more by visiting [Flow Rate Factors Guide](#).

Delivery times for partial or overfill volumes are approximate values.

Do not fill the pump less than the minimal or more than the maximum fill volume specified.

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.

Filling the pump up with diluent before adding the drug/medication is recommended.

## 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 Elastomeric Pump 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 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.

## Storage

The EZ-FLOW Elastomeric Pump should be stored between 68° F to 77° F and protected from light sources and heat prior to filling with medication. Refer to the drug manufacturers' requirements for storage after filling the pump with medication. Prior to the start of infusion, the elastomeric pump and contents should be at room temperature.

The tables on the following pages provide guidelines for the estimated time the pump will take to reach room temperature after refrigeration based on the nominal fill volume.

View full Drug Stability Guide data table, visit [DrugStability Guide](#)





# LONG DURATION INFORMATION

## FILL VOLUME, FLOW RATE, & DURATION

ITEM #	NOMINAL FILL VOLUME (mL)	MIN. FILL VOLUME (mL)	MAX. FILL VOLUME (mL)	RESIDUAL VOLUME (mL)	NOMINAL FLOW RATE (mL/Hr)	NOMINAL DURATION (Minutes)
IM060005L	60	30	100	2	5	12
IM100002L	100	75	110	2	2	50
IM100005L	100	75	120	2	5	20
IM125005L	125	75	150	2	5	25
IM270001L	270	240	270	3	1	270
IM270002L	270	150	300	3	2	135
IM270004L	270	230	300	3	4	67
IM270005L	270	250	360	3	5	54
IM270010L	270	230	360	3	10	27
IM500020L	500	360	500	5	20	25

## ESTIMATED TIME TO REACH ROOM TEMPERATURE BASED ON VOLUME

FILL VOLUME (mL)	REMOVE FROM REFRIGERATOR (Hr)
50	6
60	7
100	8
125	8
270	12
300	12
400	15
500	18

# Long Duration Delivery Times

APPROX. DELIVERY TIME (HOURS)	IM060005L	IM100002L	IM100005L	IM125005L	IM270001L	IM270002L	IM270004L	IM270005L	IM270010L	IM500020L
FILL VOLUME (mL)										
6:00	30									
10:00										
12:00	60									
13:00				75						
14:00			75							
16:00	80									
18:00				100						380
20:00	100		100						230	440
24:00										
25:00			120	125					250	500
27:00									270	
30:00									300	
32:00				150						
35:00										
36:00		72							330	
40:00		80								
46:00		96						240		
50:00		100						250		
54:00		108					230	270		
60:00										
62:00										
67:00							270			
72:00								330		
77:00							300			
80:00						200				
100:00						220				
125:00						250				
135:00						270				
144:00						300				
250:00					250					
270:00					270					

# CHEMOTHERAPY INFORMATION

## FILL VOLUME, FLOW RATE, & DURATION

ITEM #	NOMINAL FILL VOLUME (mL)	MIN. FILL VOLUME (mL)	MAX. FILL VOLUME (mL)	RESIDUAL VOLUME (mL)	NOMINAL FLOW RATE (mL/Hr)	NOMINAL DURATION (Minutes)
IM100002C	100	75	120	2	2	50
IM125005C	125	75	360	2	5	25
IM270002C	270	150	336	3	2	135
IM270005C	270	230	330	3	5	54
IM270010C	270	230	360	3	10	27
IM300006C	300	230	360	3	6	50

## ESTIMATED TIME TO REACH ROOM TEMPERATURE BASED ON VOLUME

FILL VOLUME (mL)	REMOVE FROM REFRIGERATOR (Hr)
50	6
60	7
100	8
125	8
270	12
300	12
400	15
500	18

# Chemotherapy Delivery Times

APPROX. DELIVERY TIME (HOURS)	IM100002C	IM125005C	IM270002C	IM270005C	IM270010C	IM300006C
	FILL VOLUME (mL)					
16:00		75				
18:00						
20:00		100			230	
24:00		120			240	
25:00		125			250	
27:00					270	
30:00					300	
32:00		150				
36:00	75				330	
40:00	80					250
46:00	92			230		280
48:00	96			240		288
50:00	100			250		300
54:00	108			270		320
60:00	120					
62:00						360
72:00		360	150	330		
75:00						
80:00						
96:00			192			
100:00			210			
120:00			240			
125:00			260			
135:00			270			
144:00			288			
150:00			300			
168:00			336			

# INSTRUCTIONS FOR USE

## Filling Instructions

### 1. PREPARE EZ-FLOW

Use an aseptic technique. Unscrew the fill port cap. Ensure the pinch clamp is in the closed position.

### 2. ATTACH & FILL EZ-FLOW

Attach the prepared filling device (syringe or peristaltic pump) securely to the fill port. Do not push down on the pump while filling. Always use the recommended fill volume.

### 3. LABEL & STORE EZ-FLOW

Detach the filling device from the fill port and securely replace the port cap. Label with the appropriate pharmaceutical and patient information.

## Priming EZ-FLOW Tubing

### SHORT DURATION\*

1. Move the pinch clamp to the “open” position.
2. Loosen the patient end cap until medication begins to flow down tubing.
3. When all air is expelled, retighten the patient end cap.
4. Move the pinch clamp to the closed position.

\* Long Duration & Chemotherapy EZ-FLOW Elastomeric Pumps automatically prime due to the priming cap. The membrane prevents fluid from leaking out while allowing air to escape.

## Drugs Prone to Precipitation

### TO MINIMIZE THE RISK OF PRECIPITATION OR CRYSTALLIZATION, FOLLOW THE STEPS BELOW WHEN FILLING YOUR EZ-FLOW:

1. Fill the EZ-FLOW elastomeric with 10 mL of diluent.
2. Prime the administration tubing.
3. Fill the remaining volume with diluent and medication.

The diluent will fill the entire tubing, protecting it from precipitation, while the pump reservoir will contain the full medication dose.

## Storage & Effect on Flow Rate

The EZ-FLOW Elastomeric Pump can be pre-filled and stored until ready for use. If the filled pump is stored for an extended period before administration (14+ days), the pressure in the reservoir may decrease due to the stretching of the elastomeric membrane. This could lead to a reduction in the flow rate below the specified nominal rate.

For guidance on proper storage duration and temperature, please consult the drug stability tables and your facility's standard operating procedures.

## Infusing Medications

### STARTING TREATMENT

1. Ensure the EZ-FLOW Elastomeric Pump and medication have reached room temperature.
2. Verify the clamp is in the “closed” position and the medication and patient information is correct.
3. Cleanse the patient's access device site and attach the EZ-FLOW tubing. Do not overtighten. Ensure the access site is secure and free of kinks by taping the tubing to the patient's skin.

### DURING TREATMENT

The patient should be educated on how to use the EZ-FLOW Elastomeric Pump.

### FINISHING TREATMENT

1. The treatment is finished when the pump is completely deflated, empty and the inner core can be felt.
2. Disconnect the pump tubing from your access site and dispose of it as directed. Do not reuse.

## Infusing Medications

If the pump isn't working properly, first check the following:

**Room Temperature:** Make sure the pump and medication are at room temperature.

**Pinch Clamp:** Ensure the pinch clamp is open and moves freely up and down the tubing.

**Clamps and Filter:** Verify that all clamps on the catheter are open and that the filter isn't covered.

**Tubing:** Check that there are no kinks in the tubing.

## Leaks & Spills

### IF THERE IS A LEAK OR SPILL:

- Close the pinch clamp immediately.
- Wash off any medication that has come into contact with your skin right away.
- Contact your healthcare provider immediately for guidance.
- Save the pump and give it to your healthcare provider so it can be returned to the manufacturer.

## Precautions

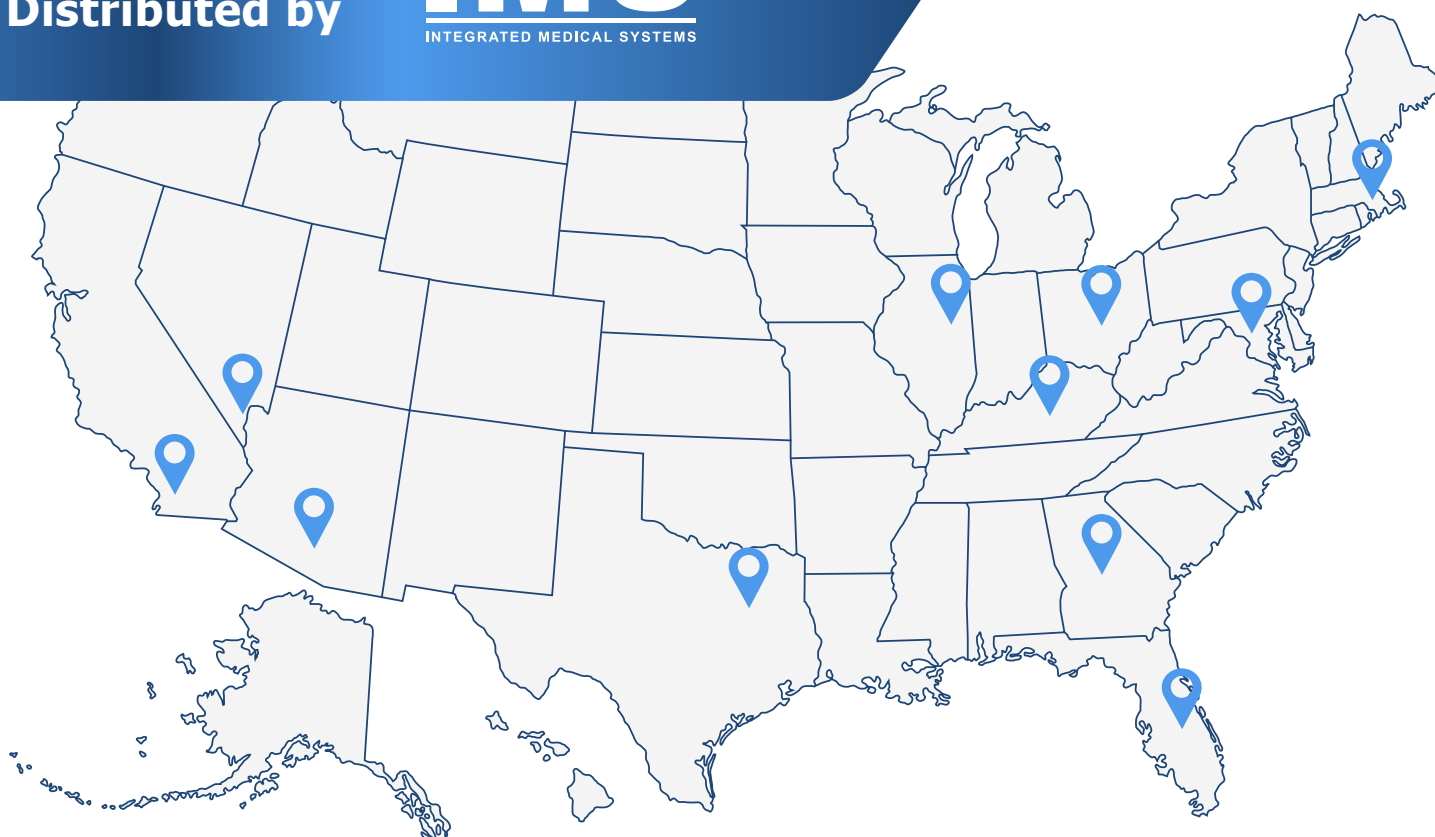
- Do not submerge the pump in water.
- Prevent the filter from getting wet.
- Make sure the tubing is free of kinks and the pinch clamp is in the ON/OPEN position for full infusion time. If kinks are observed in the tubing, roll the tubing between your fingers to release the kink.
- Do not get alcohol or detergents on the filter as this may cause a leak.
- Do not sleep on the pump.
- Do not squeeze or play with the filled pump. Applied pressure may result in rupture or breakage and will result in increased flow rate.
- Avoid prolonged periods of extreme heat or cold.
- Ensure the pump and medication have reached room temperature prior to treatment.



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