

# Clinical Guide



**EZ FLOW**<sup>TM</sup>  
ELASTOMERIC PUMP

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# OVERVIEW

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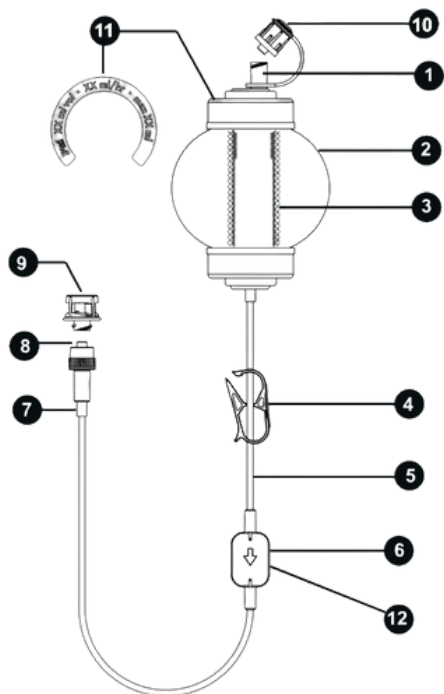
EZ-FLOW™ Elastomeric Pumps are proven to be a safe, effective, and convenient alternative to electronic infusion pumps. Ideally suited for infusion, long-term care, and outpatient chemotherapy treatments, EZ-FLOW gives the patient mobility and freedom to maintain an active lifestyle without the use of 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 [go.integratedmedsys.com/FlowRateFactors](http://go.integratedmedsys.com/FlowRateFactors).
- Delivery times for partial or overflow 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.
- Filling the 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 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.

To view the full Drug Stability Guide data table, scan the QR code or visit [go.integratedmedsys.com/DrugStability](http://go.integratedmedsys.com/DrugStability)



# SHORT DURATION INFORMATION

SHORT DURATION 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)
<b>IM050050S</b>	50	50	60	2	50	60
<b>IM100050S</b>	100	75	110	2	50	120
<b>IM100100S</b>	100	50	120	2	100	60
<b>IM100200S</b>	100	50	120	2	200	30
<b>IM200100S</b>	200	150	250	3	100	120
<b>IM200200S</b>	200	150	300	2	200	60
<b>IM250050S</b>	250	150	300	3	50	300
<b>IM250100S</b>	250	200	300	3	100	150
<b>IM250125S</b>	250	150	300	3	125	120
<b>IM250175S</b>	250	140	300	3	175	90
<b>IM250250S</b>	250	150	300	3	250	60
<b>IM250500S</b>	250	200	230	3	500	30
<b>IM270175S</b>	270	150	300	3	175	90
<b>IM400100S</b>	400	275	550	5	100	240
<b>IM400200S</b>	400	200	500	5	200	120
<b>IM500250S</b>	500	360	550	5	250	120

ESTIMATED TIME TO REACH ROOM TEMPERATURE BASED ON VOLUME		
Fill Volume (mL)	Remove from Refrigerator (hrs)	Remove from Freezer (hrs)
50	6	12
60	7	12
100	8	16
125	8	16
270	12	25
300	12	25
400	15	29
500	18	30

## SHORT DURATION DELIVERY TIMES

Approx. Delivery Time (Hour:Min)	IM050050S	IM100050S	IM100100S	IM100200S	IM200100S	IM200200S	IM250050S	IM250100S	IM250125S	IM250175S	IM250250S	IM250500S	IM270175S	IM400100S	IM400200S	IM500250S
	FILL VOLUME (mL)															
0:15				50												
0:30			50	100							150	250				
0:45			75	120		150				140	200	300	150			
1:00	50		100			200				175	250				200	
1:15	60		120			250			150	220	300				250	360
1:30		75				300			180	250			270		300	400
1:45									220	300			300		350	475
2:00		100			200			200	250						400	500
2:15		110						220	280						450	550
2:30								250	300						500	
2:45					250			275						275		
3:00							150	300						300		
3:30														360		
4:00														400		
4:30														450		
5:00							250							500		
5:30							275							550		

# 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)
<b>IM060005L</b>	60	30	100	2	5	12
<b>IM100002L</b>	100	75	110	2	2	50
<b>IM100005L</b>	100	75	120	2	5	20
<b>IM125005L</b>	125	75	150	2	5	25
<b>IM270001L</b>	270	240	270	3	1	270
<b>IM270002L</b>	270	150	300	3	2	135
<b>IM270004L</b>	270	230	300	3	4	67
<b>IM270005L</b>	270	250	360	3	5	54
<b>IM270010L</b>	270	230	360	3	10	27
<b>IM500020L</b>	500	360	500	5	20	25

## ESTIMATED TIME TO REACH ROOM TEMPERATURE BASED ON VOLUME

Fill Volume (mL)	Remove from Refrigerator (hrs)	Remove from Freezer (hrs)
50	6	12
60	7	12
100	8	16
125	8	16
270	12	25
300	12	25
400	15	29
500	18	30

## LONG DURATION DELIVERY TIMES

Approx. Delivery Time (Hour)	IM060005L	IM100002L	IM100005L	IM125005L	IM270001L	IM270002L	IM270004L	IM270005L	IM270010L	IM500020L
	Fill Volume (mL)									
06:00	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)
<b>IM100002C</b>	100	75	120	2	2	50
<b>IM125005C</b>	125	75	150	2	5	25
<b>IM270002C</b>	270	150	300	3	2	135
<b>IM270005C</b>	270	240	330	3	5	54
<b>IM270010C</b>	270	230	360	3	10	27
<b>IM300006C</b>	300	250	360	3	6	50

## ESTIMATED TIME TO REACH ROOM TEMPERATURE BASED ON VOLUME

Fill Volume (mL)	Remove from Refrigerator (hrs)	Remove from Freezer (hrs)
50	6	12
60	7	12
100	8	16
125	8	16
270	12	25
300	12	25
400	15	29
500	18	30



<b>CHEMOTHERAPY DELIVERY TIMES</b>						
<b>Hours:Min</b>	<b>IM100002C</b>	<b>IM125005C</b>	<b>IM270002C</b>	<b>IM270005C</b>	<b>IM270010C</b>	<b>IM300006C</b>
	<b>Fill Volumes (mL)</b>					
16:00		75				
18:00						
20:00		100			230	
24:00						
25:00		125			250	
27:00					270	
30:00					300	
32:00		150				
36:00	75				330	
40:00	80					250
46:00	96			240		280
48:00				245		
50:00	100			250		300
54:00	108			270		320
60:00	120					
62:00						360
72:00			150	330		
75:00						
80:00						
96:00						
100:00			210			
125:00			260			
135:00			270			
144:00						
150:00			300			
168:00						

# INSTRUCTIONS FOR USE

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## 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 follow the below steps 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 location’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 over-tighten. 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, and 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.

## TROUBLESHOOTING

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.



To view the Patient Guide, scan the QR code or visit [go.integratedmedsys.com/PatientGuide](https://go.integratedmedsys.com/PatientGuide)

## Carrying Pouches



- Use with Elastomeric Pumps
- Adjustable Straps
- Zipper Pouch
- Available in Blue

## Chemotherapy Spill Kit



- 2 Chemo-rated Pairs of Gloves
- 1 Chemo Waste Bag
- 1 Antiseptic Towelette
- 1 Ultrisorbs Towel

## Ordering Details

Item #	Description	Size	UOM
IM58010	IMed Elastomeric Pump Pouch	200mL	1/Each
IM58011	IMed Elastomeric Pump Pouch	500mL	1/Each
IM46119	Chemotherapy Spill Kit	N/A	50/Case

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