EZ FLOW™
ELASTOMERIC PUMP

FILLING GUIDE

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IMed Products

OVERVIEW

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

The EZ-FLOW Elastomeric Pump is easy to fill and color-coded for quick and accurate device identification. The wide range of SKUs available offers dosing flexibility to administer various infusion therapies at different flow rates. Please refer to the Fill Volume and Delivery Time Tables within this guide to help determine which product is best suited for the needed therapy.

Fill Volumes & Delivery Times*

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 or correspondingly 10% longer delivery time.

- Actual infusion time may vary depending on fill volume, flow rate and other influencing factors. View "Factors Influencing Flow Rate Chart" at integratedmedsys.com/FlowRateFactors for details.
- 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.
- Delivery times for partial or overfill volumes are approximate values.
- Filling the pump with diluent before adding the drug/medication is recommended.

*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.

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.

View full Drug Stability Guide data table, visit **DrugStability Guide**

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. Prior to the start of infusion, the elastomeric pump and contents should at room temperature.

The table below provides guidelines for the estimated time the pump will take to reach room temperature after refrigeration based on the nominal fill volume. Elastomeric pumps should not be stored in a freezer.

ESTIMATED TIME TO REACH ROOM TEMPERATURE BASED ON VOLUME

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

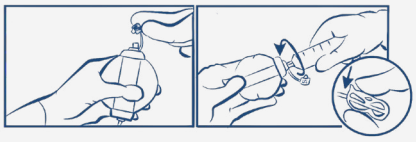
*Refer to the drug manufacturers' requirements for storage after filling the pump with medication.

SHORT DURATION

Instructions for Filling

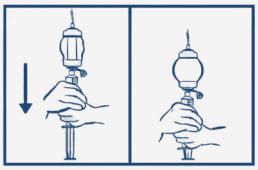
1 PREPARE THE EQUIPMENT

Unscrew the fill port cap. Keep the pinch clamp in the closed position. Attach the prepared filling device securely to the fill port.



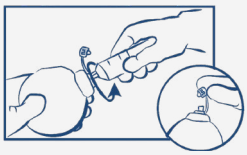
2 FILL THE EZ-FLOW PUMP

Fill using a syringe or pump. Always use the recommended fill volume.

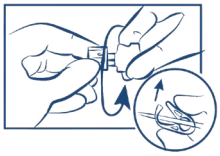


3 LABEL & STORE APPROPRIATELY

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

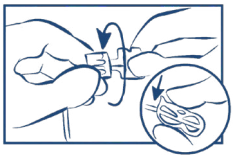


Priming Administration Tubing



Move pinch clamp to the open position.

Loosen the patient end cap until medication begins to flow down tubing.



When all air is expelled, retighten the patient end cap. Move the pinch clamp to the closed position.

Drugs Prone to Precipitation*

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.

Short Duration Fill Volume, Flow Rate, & Duration

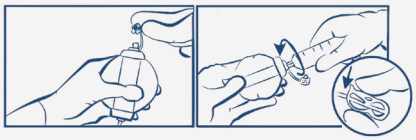
ITEM #	NOMINAL FILL VOLUME (mL)	MIN. FILL VOLUME (mL)	MAX. FILL VOLUME (mL)	RESIDUAL VOLUME (mL)	COLOR CODE	NOMINAL FLOW RATE (mL/Hr)	NOMINAL DURATION (Minutes)
IM050050S	50	50	60	2		50	60
IM100050S	100	75	110	2		50	120
IM050050S	100	50	120	2		100	60
IM100050S	100	50	120	2		200	30
IM200100S	200	150	250	3		100	120
IM200200S	200	150	300	2		200	60
IM250050S	250	150	300	3		50	300
IM250100S	250	200	300	3		100	150
IM250125S	250	150	300	3		125	120
IM250175S	250	140	300	3		175	90
IM250250S	250	150	300	3		250	60
IM250500S	250	200	230	3		500	30
IM270175S	270	150	300	3		175	90
IM400100S	400	275	550	5		100	240
IM400200S	400	200	500	5		200	120
IM500250S	500	360	550	5		250	120

LONG DURATION & CHEMOTHERAPY

Instructions for Filling

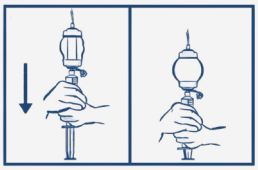
1 PREPARE THE EQUIPMENT

Unscrew the fill port cap. Keep the pinch clamp in the closed position. Attach the prepared filling device securely to the fill port.



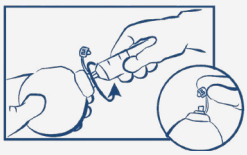
2 FILL THE EZ-FLOW PUMP

Fill using a syringe or pump. Always use the recommended fill volume.



3 LABEL & STORE APPROPRIATELY

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



Priming Administration Tubing

Long Duration and Chemotherapy EZ-FLOW Elastomeric Pumps include a priming cap.

The priming cap enables the administration tube to be automatically primed and ready for infusion. The membrane prevents fluid from leaking out of the priming cap, allowing air to escape.

Drugs Prone to Precipitation*

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.

Fill Volume, Flow Rate, & Duration

	ITEM #	NOMINAL FILL VOLUME (mL)	MIN. FILL VOLUME (mL)	MAX. FILL VOLUME (mL)	RESIDUAL VOLUME (mL)	COLOR CODE	NOMINAL FLOW RATE (mL/Hr)	NOMINAL DURATION (Hours)
LONGDURATION	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
CHEMOTHERAPY	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

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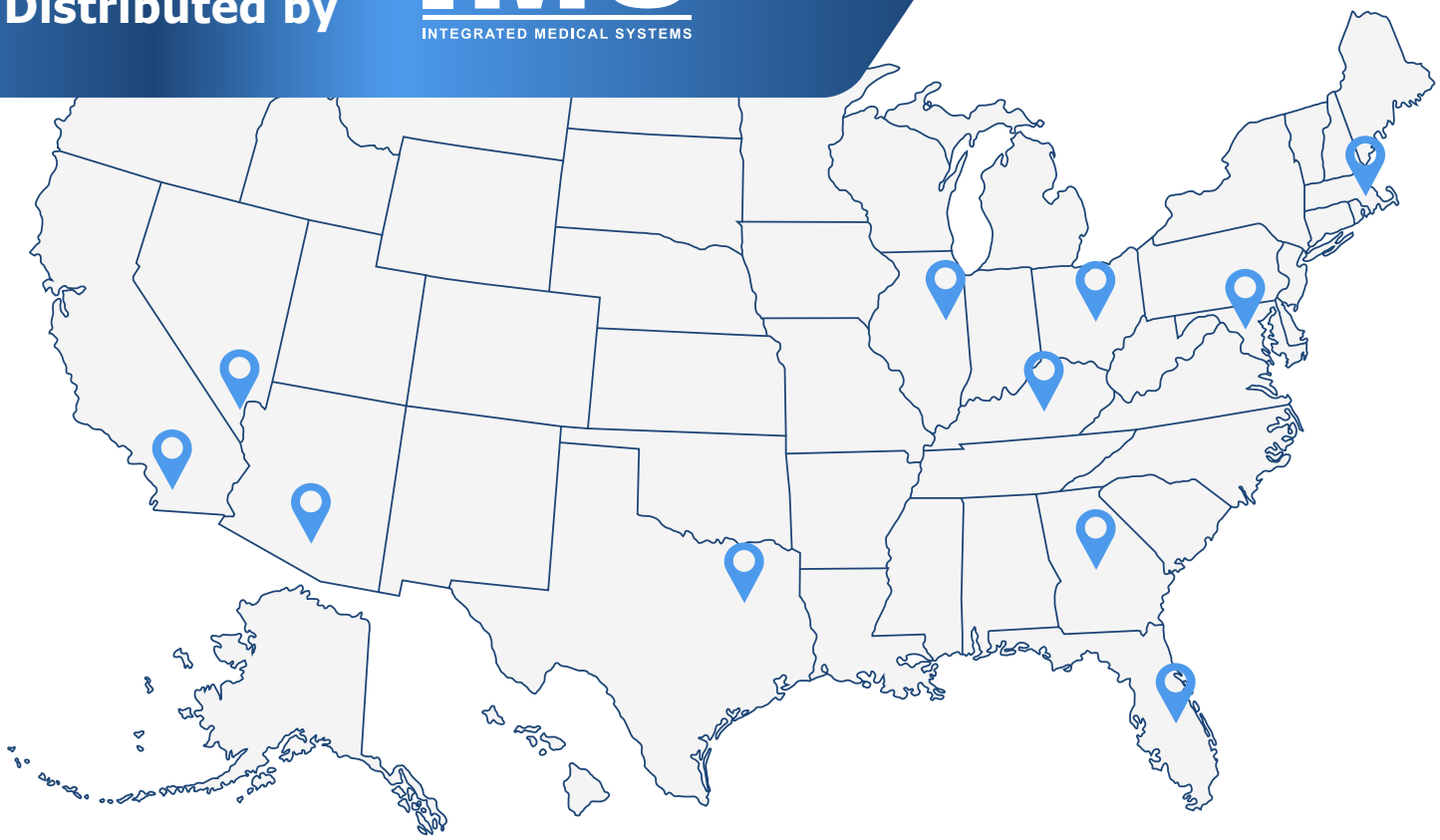

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