

Filling Guide



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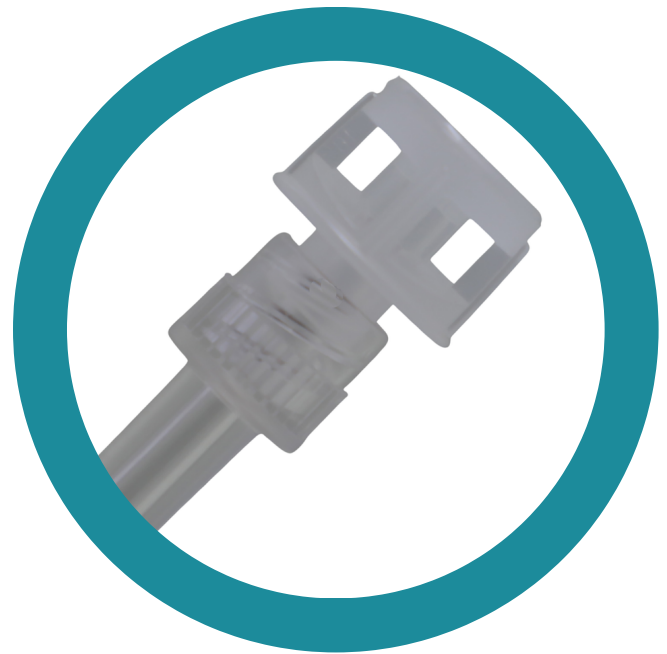
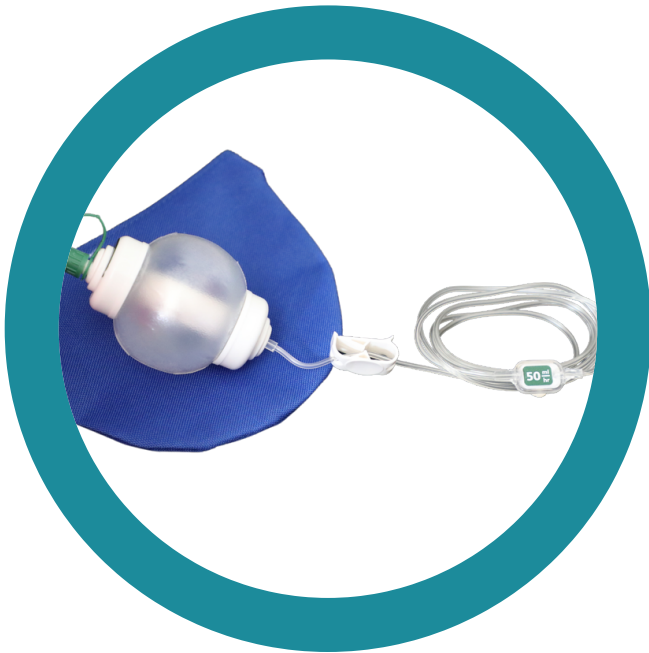


Why Choose EZ-FLOW™ Elastomeric Pumps?

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.

How Does the EZ-FLOW™ Elastomeric Pump Work?

The EZ-FLOW™ Elastomeric Pump 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 Pumps 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.



Instructions for Filling - Short Duration

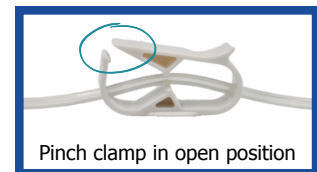
Use Aseptic Technique

1. Unscrew the fill port cap on the EZ-FLOW™ Elastomeric Pump
2. EZ-FLOW™ 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™ 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

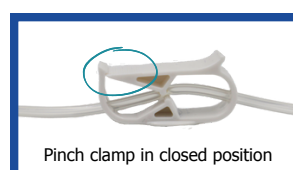
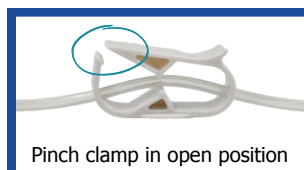
For Drugs Prone to Precipitation

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:

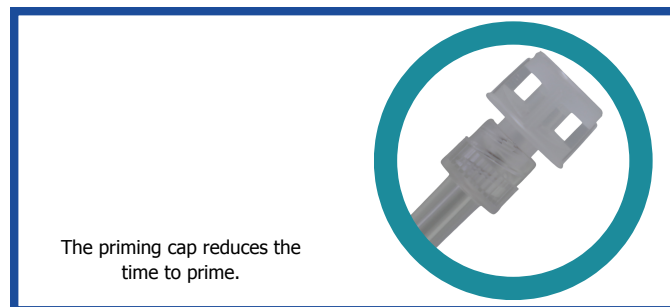
- Filling the device less than the nominal volume generally results in faster flow rate
- Filling the device more than the nominal volume generally results in slower flow rate



Instructions for Filling - Long Duration & Chemotherapy

Use Aseptic Technique

1. Unscrew the fill port cap on the EZ-FLOW™ Elastomeric Pump
2. EZ-FLOW™ 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™ 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

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 EZ-FLOW™ 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



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 SKUs available offers dosing flexibility to administer various infusion therapies. Please refer to the Fill Volume and Delivery Time Tables 8-10, 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™ 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 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, www.integratedmedsys.com 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™ 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.

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

20 mL/hr	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	240mL	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 mL/hr	2 mL/hr	4 mL/hr	5 mL/hr	10 mL/hr	20 mL/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
mL/hr5
mL/hr6
mL/hr

10 mL/hr

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