Product Specifications and Ordering Information

SMARTeZ™ PUMPS				
REF No.	Product Name	Infusion Time (h)	Flow Rate (mL/h)	Quantity per Case
Short Duration				
481010	SMARTeZ 100-200-30m	0.5	200	10
481020	SMARTeZ 250-500-30m	0.5	500	10
481030	SMARTeZ 50-50-60m	1	50	10
481040	SMARTeZ 100-100-60m	1	100	10
481060	SMARTeZ 250-175-90m	1.5	175	10
481070	SMARTeZ 400-200-120m	2	200	10
481080	SMARTeZ 500-250-120m	2	250	10
481090	SMARTeZ 100-50-120m	2	50	10
481100	SMARTeZ 400-100-240m	4	100	10
Long Duration				
480010	SMARTeZ 60-5-12h	12	5	10
480030	SMARTeZ 125-5-25h	25	5	10
480220	SMARTeZ 100-4-25h	25	4	10
480040	SMARTeZ 270-10-27h	27	10	10
480050	SMARTeZ 60-2-30h	30	2	10
480060	SMARTeZ 120-4-30h	30	4	10
480070	SMARTeZ 400-10-40h	40	10	10
480080	SMARTeZ 100-2-50h	50	2	10
480090	SMARTeZ 270-5-54h	54	5	10
480100	SMARTeZ 120-2-60h	60	2	10
480110	SMARTeZ 400-5-80h	80	5	10
480150	SMARTeZ 65-0.5-130h	130	0.5	10
480160	SMARTeZ 270-2-135h	135	2	10
480230	SMARTeZ 270-1.5-180h	180	1.5	10
480180	SMARTeZ 100-0.5-200h	200	0.5	10
480190	SMARTeZ 270-1-270h	270	1	10
481170	SMARTeZ 500-20-25h	25	20	10
481180	SMARTeZ 500-40-12.5h	12.5	40	10
Chemo				
484010	SMARTeZ C100-2-50h	50	2	10
484020	SMARTeZ C270-2-135h	135	2	10
484030	SMARTeZ C120-4-30h	30	4	10
484040	SMARTeZ C270-5-54h	54	5	10
484050	SMARTeZ C270-10-27h	27	10	10

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Product User Information

SMARTeZ™ Pump

For Short-Term and Long-Term Infusions

Infusion Therapy

SMART and Easy

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Safe and Effective

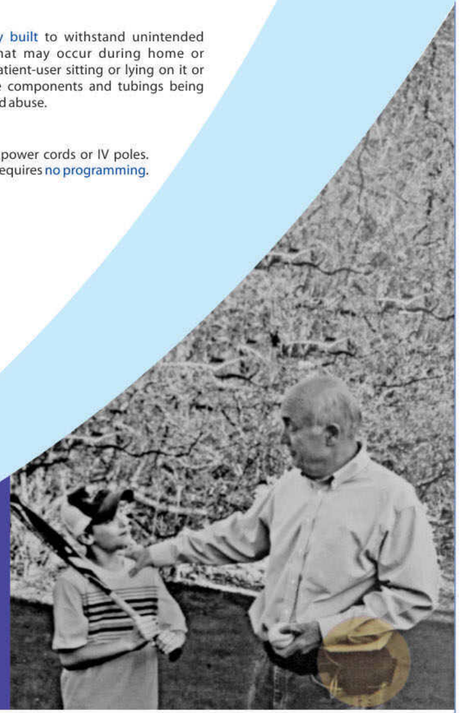
The technology used in SMARTeZ™ Pump is proven to be safe and effective. This technology is known to have the least adverse events when compared to other means of infusion 1)

SMARTeZ™ Pump met the requirements of ISO 28620:2010, the established standard for non-electrically operated infusion pumps.

Flow Accuracy which is a critical performance attribute consistently exceeded standard requirements.

The pump is robustly built to withstand unintended external pressures that may occur during home or ambulatory use like patient-user sitting or lying on it or other stresses like the components and tubings being subjected to pulling and abuse.

Requires no batteries, power cords or IV poles.
Fixed flow rate design requires no programming.
Easy to use.



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Enabling the simple things in life that matters

1) http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfMAUDE/search.CFM

Usability + Performance

Open Luer Fill Port Cap (1). Use aseptic technique, always follow USP 797 guidelines.

Close ON/OFF clamp (2). Use a syringe (or other filling device) with drug to fill the pump. Inject drug into pump until required volume is achieved. Use both hands and do not push the pump down while filling as the syringe tip may break (3).

Remove distal patient end cap (4). Release ON/OFF clamp to purge line of all air. Close ON/OFF clamp and reattach patient distal end cap (5).

Color Coded
Ensures correct selection of device type.
Tethered Cap
Avoids misplacing Luer Cap after filling device.

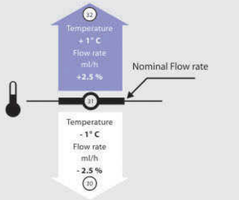
Soft Material for Outer Cover
Provides ultimate patient comfort.
Two Layered Drug Reservoir Membrane
Provides excellent flow profile.

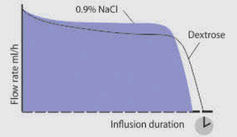
Ergonomical Clamp
Easy to close and open clamp with one hand operation.

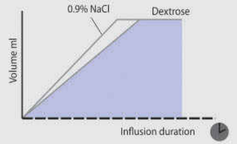
Flow restrictor embedded in patient connector
Ensures contact with patients skin to reduce temperature effects on flow rate.

Close ON/OFF clamp (6). Reattach Luer fill port cap (7).

Factors Affecting Flow Rates







Effects of Temperature

In order to maintain started flow rates during infusion , the flow restrictor should be in close contact with the patient's skin.
For every 1 deg C above or below this temperature, the flow rate will increase or decrease by approximately 2.5%

Effects of Diluent

SMARTeZ® infusion Pump flow rates are calculated using 0.9% normal saline (NaCl) as diluent. Using dextrose 5% (DSW) as diluent of the additional of any drug of a greater viscosity than normal saline will increase delivery time by 10% or more.

Effects of Fill Volume

Filling with MORE than nominal volume generally results in FASTER flow rates. The infusion duration will however be longer as a result of more volume being delivered.

Filling with LESS than nominal volume generally results in SLOWER flow rates. The infusion duration will however be shorter as a result of less volume being delivered.

Description

SMARTeZ™ Pumps are designed to give clinicians and nurses the option of delivering pre-determined amounts of medication to the patient in a continuous and accurate manner either at the hospital or at home.
SMARTeZ™ Pump is independent of main power supplies or batteries, enabling the patient to be treated in an ambulatory manner. Medication is delivered to the patient by positive pressure applied by the elastomeric membrane. The flow rate is determined by the combination of the flow regulation device (flow restrictor) and the positive pressure of the elastomeric membrane. This pressure delivers the solution against the back-presure of catheters and blood pressure in the veins. Back-pressure affect the flow rate.

Indications

Elastomeric pump devices are intended to infuse medication for either continuous / intermittent intravenous, subcutaneous or epidural infusion (according to pump model). Chemotherapy, antibiotics, anesthesia and pain management are the most common therapies where elastomeric pumps can be used, either in adult or pediatric patients.
For detailed information about the range of drugs typically administresed via elastomeric pumps please refer to Drug Stability List on www.epic-med.com