

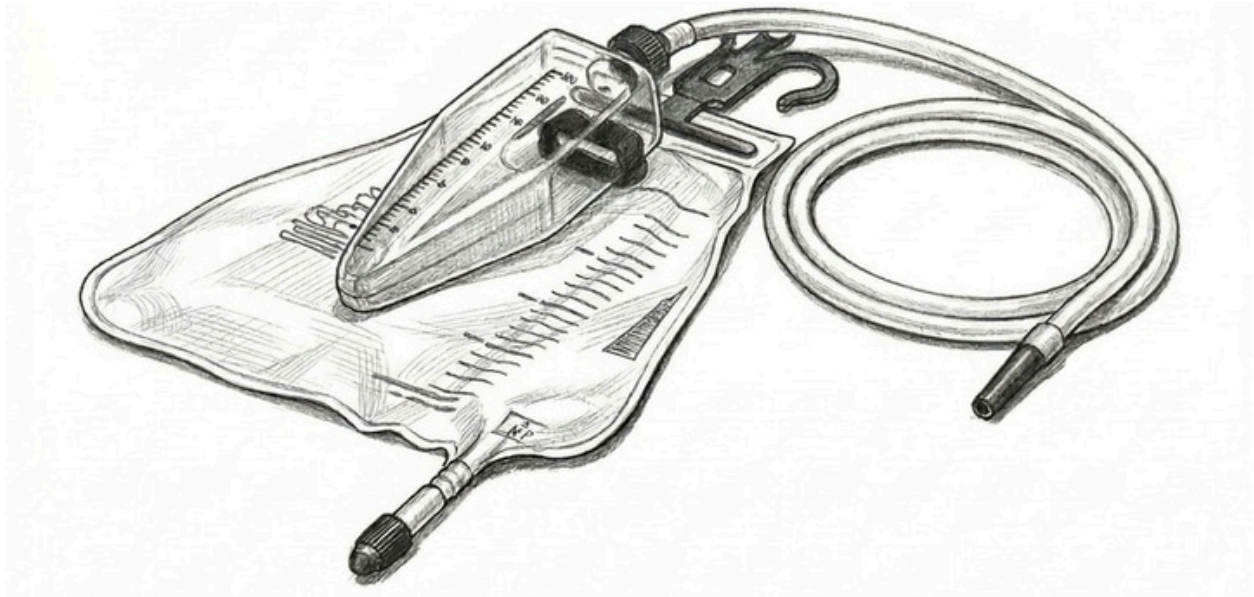
## SECUROFLO PLUS™

Generic Name: Urinometer

Brand Name: Securoflo Plus™

Product Code: SCMBLS

Product Mfg Ref code: SM-UM



SECUROFLO PLUS™ is a clinical-grade medical device engineered for the real-time, high-precision measurement of urinary output, specifically for critically ill or postoperative patients. Unlike standard drainage reservoirs, this urine meter incorporates a specialized graduated measuring chamber (250–500 mL capacity) to facilitate rigorous hourly monitoring of renal function and hemodynamic stability.

### Key Features

- Precision Chamber: Made of clear, rigid plastic with fine graduation markings for accurate readings at a glance.
- Closed System: Includes a collection bag (typically 2000 mL) and an anti-reflux valve to prevent backflow and reduce infection risks.
- Sampling Port: Includes a needle-free port for taking sterile urine samples without disconnecting the system.
- Bypass System: Designed to allow urine to overflow into the larger collection bag once the measuring chamber is full.

## Comparison: Securoflo Plus (™) Vs. Securoflo (™)

Feature	Urine Meter	Standard Urine Bag
Typical Use	Critical care, ICU, post-surgery	Long-term care, routine use
Accuracy	High (precise mL markings)	Low to moderate (rough estimates)
Material	Rigid, clear plastic chamber	Flexible PVC or silicone reservoir
Capacity	250–500 mL (chamber) + 2L (bag)	Typically 1–2 L

### How It Works

- **Connection:** SECUROFLO PLUS (™) is connected to an indwelling Foley catheter and hung vertically below the patient's bladder level.
- **Collection:** Urine flows by gravity into the measuring chamber first.
- **Measurement:** Healthcare staff record the volume from the chamber at set intervals (e.g., hourly).
- **Drainage:** After recording, drain the urine from the chamber into the larger storage bag below, "zeroing" the meter for the next interval.

### Daily Setup and Position

- **Hang Below Bladder Level:** Always keep the urine meter and collection bag below the level of the patient's bladder to ensure urine flows easily by gravity.
- **Avoid the Floor:** Never let any part of the device touch the floor.
- **Check for Kinks:** Ensure the drainage tubing is not kinked, twisted, or trapped under the patient's leg, as this can block flow.

### Reading and Recording Output

- **Check at Eye Level:** To get an accurate reading, inspect the graduated markings on the clear measuring chamber at eye level while it is hanging vertically.
- **Record Hourly:** Note the exact volume (in mL) at consistent intervals (usually every hour) on an Output Record sheet.
- **Calculate the Rate:** If recording after several hours, divide the total volume by the number of hours (e.g., 150 mL over 3 hours = 50 mL/hour).

## Resetting the SECUROFLO PLUS (™) Chamber

After recording the volume, you must move the urine from the measuring chamber into the larger collection bag:

- **Tilt to Drain:** Most meters are designed to drain by tilting the chamber sideways or backward so the urine flows through an internal opening into the large bag.

## Emptying the Large Collection Bag

Empty the main 2-liter storage bag when it is about half full or at the end of each shift.

- **Aseptic Preparation:** Perform thorough hand hygiene and utilize clean, disposable clinical gloves.
- **The "No-Touch" Rule:** Open the outlet tap at the bottom of the bag and drain the urine into a clean container. Do not let the drainage tap touch the container, the toilet, or the floor.
- **Disinfect:** After closing the tap, wipe the tip with an alcohol swab before tucking it back into its protective holder.

## When to Contact a Healthcare Provider

Call a doctor or nurse immediately if you notice:

- **Diminished Output (Oliguria):** Urinary volume of less than 30–35 mL per hour in an average adult patient.
- **Urine Changes:** Cloudiness, foul odor, or visible blood/sediment.
- **Patient Symptoms:** Fever, chills, or pain in the lower back or abdomen.