

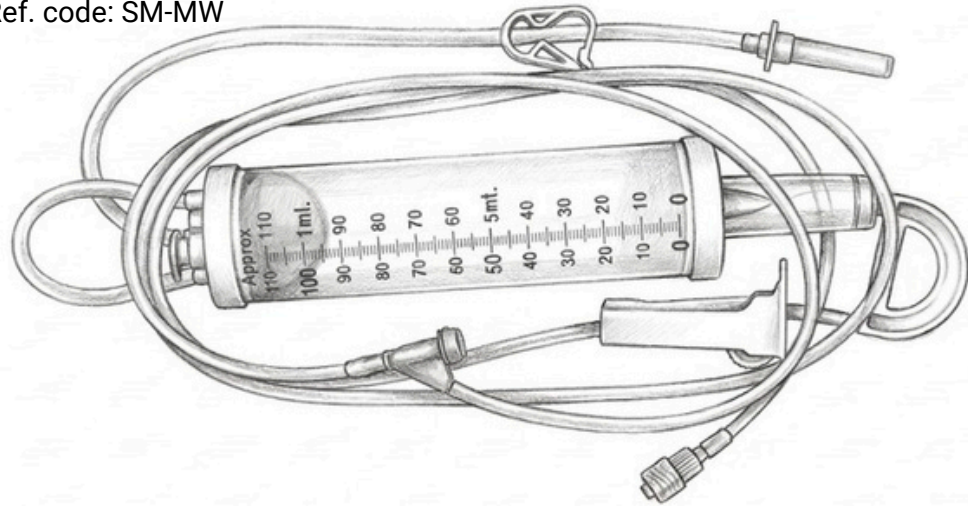
PEDIAFLUSS™

Generic name: pediatric infusion set / burette set / Measured volume set

Brand name: PEDIAFLUSS™

Product code: SCMIVS

Product Mfg. Ref. code: SM-MW



PEDIAFLUSS is a specialized medical device used to deliver precise, small-volume fluids and medications to infants and children. Unlike standard adult sets, these prioritize safety and accuracy to prevent fluid overload—a critical risk for smaller patients.

Key Components & Features of PEDIAFLUSS

- **Volumetric Burette (Graduated Chamber):** A 100mL or 150mL clear cylindrical chamber that allows clinicians to isolate a specific amount of fluid from the main IV bag.
- **Micro-Drip System:** Standardized to 60 drops/mL. This allows for much finer flow control compared to adult "macro-drip" sets (typically 10–20 drops/mL).
- **Automatic Shut-Off Valve (Float Valve):** A unique safety feature that stops the flow once the burette chamber is empty, preventing air from entering the IV line and reaching the patient.
- **Y-Injection Site:** A port located on the tubing for adding supplemental medications without disconnecting the main line.
- **Air-Vented Spike:** Includes a hydrophobic bacteria filter to allow air into the chamber for gravity flow while maintaining sterility.

How it Works

- **Isolating Volume:** The top clamp is opened to fill the burette with a prescribed dose (e.g., 50mL) then closed to disconnect it from the larger IV bag.

- **Controlled Delivery:** The bottom roller clamp is used to adjust the drip rate according to the patient's weight and needs.
- **Micro-Drip Advantage:** Because it provides 60 drops per milliliter, the drops per minute equals the mL per hour (1 mL/hr = 1 drop/min), making flow rate calculations simple and less prone to error.

Clinical Safety Notes

- **Fluid Overload Prevention:** By limiting the available fluid to the 100–150mL in the chamber, the risk of accidentally infusing a whole liter bag into a small child is eliminated.
- **Bacterial Protection:** PEDIAFLUSS is made of medical-grade, DEHP-free, and latex-free PVC to ensure biocompatibility and reduce infection risks.

Preparation & Safety Checks

- **Hand Hygiene:** Wash hands for at least 20 seconds and wear clean gloves.
- **Verify Order:** Confirm the "Five Rights": right patient, drug/fluid, dose, route, and time.
- **Inspect Equipment:** Check the expiry date and packaging integrity of PEDIAFLUSS and fluid bag. Ensure the fluid is clear and free of particles.
- **Close Clamps:** Ensure both the upper clamp (above the burette) and the lower roller clamp (below the drip chamber) are fully closed before starting.

Spiking & Filling the Burette

- **Spike the Bag:** Remove the protective cap from the fluid bag and PEDIAFLUSS. Insert the spike firmly into the bag's port using a twisting motion.
- **Hang the Bag:** Suspend the fluid bag on an IV stand.
- **Fill the Chamber:** Open the upper clamp to allow the fluid to flow into the burette. Fill it to the precisely prescribed volume (e.g., 50mL).
- **Close Upper Clamp:** Once the desired level is reached, close the upper clamp to isolate the fluid in the burette.

Priming the Line

- **Fill the Drip Chamber:** Gently squeeze the small drip chamber below the burette until it is approximately half full.
- **Expel Air:** Slowly open the lower roller clamp to allow fluid to travel down the tubing. Invert any Y-sites or ports while the fluid passes to ensure all air is displaced.

- Check for Bubbles: Ensure no large air bubbles remain. Small bubbles can be removed by gently flicking the tubing.
- Safety Valve Check: Ensure the floating shut-off valve is moving freely. This valve will stop the flow once the burette is empty to prevent air from entering the patient's line.

Patient Connection & Flow Rate

- Scrub the Hub: Clean the patient's IV cannula or access port with an alcohol wipe for 15 seconds.
- Connect: Remove the protective cap from the end of the infusion set and connect it securely to the patient's cannula.
- Set Flow Rate: Open the lower roller clamp and count the drops. Since this is a micro-drip set (60 drops/mL), the number of drops per minute is equal to the mL per hour.
 - *Example: 20 drops per minute = 20 mL per hour.*

Important Safety Reminders

- Vertical Alignment: The burette must hang completely vertical for the safety shut-off valve to function correctly.
- Medication Port: If adding medicine to the burette, use the needleless injection port on the top plate. Gently rotate the burette to mix the solution before starting the infusion.
- Change Frequency: Change the infusion set according to hospital policy, typically every 72 to 96 hours.