

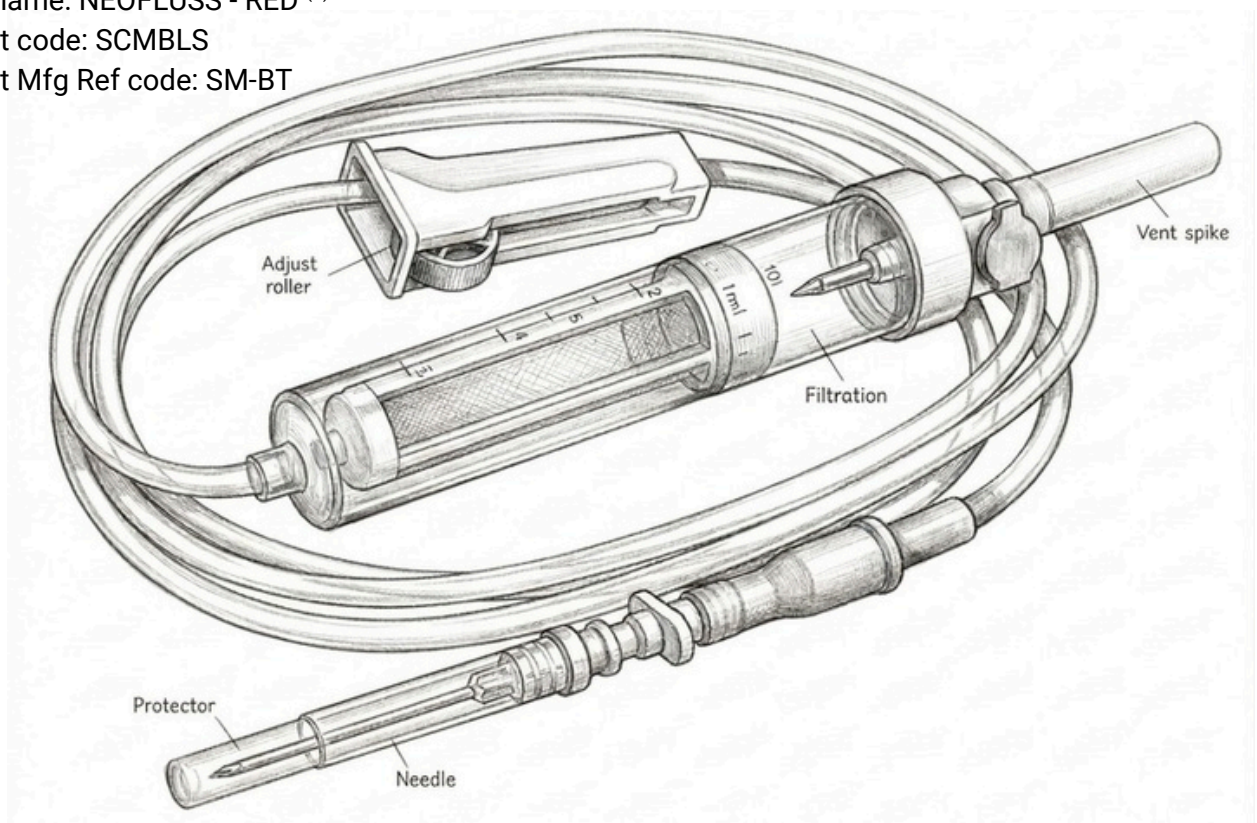
NEOFLUSS - RED (™)

Generic name: Bloodtransfusion set or blood administration set

Brand name: NEOFLUSS - RED (™)

Product code: SCMBLS

Product Mfg Ref code: SM-BT



NEOFLUSS - RED (™) is a specialized medical device used to deliver blood and blood components—such as red cells, plasma, and platelets—directly into a patient's bloodstream. While similar in appearance to standard IV sets, NEOFLUSS - RED (™) is uniquely engineered to handle the high viscosity of blood and prevent complications like clotting.

Key Components & Functions of NEOFLUSS - RED (™)

- **Integrated Filter (170–260 microns):** The most critical part, it removes gross clots, fibrin strands, and cellular aggregates that may have formed during storage, preventing them from causing pulmonary complications.
- **Large-Bore Tubing:** Optimized thickness accommodates high-viscosity blood flow while minimizing hemolysis (red blood cell destruction).
- **Drip Chamber:** Larger and more transparent to allow healthcare providers to easily monitor and count flow rates.
- **Spike:** A sharp, beveled structure used to securely pierce the blood bag.
- **Roller Clamp:** Used to precisely regulate the infusion speed based on patient needs and hospital policy.

Comparison with IV Infusion Sets

Feature	NEOFLUSS - RED ^(™)	Standard IV Set
Purpose	Blood products (RBCs, plasma, platelets)	Fluids, electrolytes, and medications
Filter Size	170–260 microns	5–20 microns (or none)
Replacement	Every 12 hours (maximum)	Every 72–96 hours

Important Safety Note: Blood products must be initiated within 30 minutes of release from the blood bank and completely infused within 4 hours to prevent bacterial growth and product degradation.

Pre-Transfusion Preparation

Before gathering NEOFLUSS - RED ^(™), ensure all clinical pre-requisites are met to prevent life-threatening errors:

- **Verify Physician Orders:** Confirm both the order to prepare the blood and the order to transfuse it.
- **Informed Consent:** Ensure the patient has signed a transfusion-specific consent form.
- **IV Access:** Verify a patent IV line. A 22-gauge catheter is the minimum, but an 18-gauge or 20-gauge is preferred for faster, smoother flow.
- **Baseline Vitals:** Document the patient's temperature, pulse, respiration, and blood pressure within 60 minutes before starting the infusion.

NEOFLUSS - RED ^(™) Setup & Priming

Use 0.9% Normal Saline as the only compatible priming fluid. Solutions containing dextrose or calcium (like Lactated Ringer's) cause cell lysis or clotting.

- **Close All Clamps:** Ensure roller clamp on NEOFLUSS - RED ^(™) is firmly closed.
- **Spike the Saline:** Insert one spike into a 250mL bag of Normal Saline. Hang the bag on the IV pole.
- **Prime the Filter:** Open the saline-side clamp. Squeeze the drip chamber until the saline level is above the filter mesh to prevent red blood cells from hitting the dry filter and hemolyzing.
- **Flush the Line:** Open the bottom roller clamp to allow saline to fill the entire length of the tubing, purging all air.

Verification & Spiking Blood

Once the blood product arrives from the lab, it must be initiated within 30 minutes.

- **Double Verification:** Two licensed professionals must verify the blood bag against the patient's ID band and the transfusion form at the bedside. Match the Unit Number, Blood Type, and Expiration Date.
- **Spike the Blood Bag:** Close the saline-side clamp. Spike the blood bag with the remaining unused spike and hang it.
- **Infuse Blood:** Open the blood-side clamp and the bottom roller clamp. The blood will displace the saline in the tubing and begin entering the patient.

Monitoring & Completion

- **The First 15 Minutes:** Start the infusion slowly (approx. 2 mL/min or 120 mL/hr). The clinician must stay at the bedside for the first 15 minutes, as most severe reactions occur during this window.
- **Observe for Reactions:** Monitor for chills, fever, hives, shortness of breath, or back pain. If a reaction occurs, stop the infusion immediately.
- **Final Vitals:** Check vitals at the 15-minute mark. If stable, increase the rate as ordered (usually to finish within 2 hours).
- **4-Hour Rule:** The entire unit must be infused within 4 hours of leaving the blood bank refrigerator to prevent bacterial growth.
- **Flush & Discard:** Close the regulator once the bag is empty, then discard the complete set into a biohazard container.

Troubleshooting Common Issues

Problem	Possible Cause	Solution
No Flow/Slow Flow	Clamped tubing, kinked line, or clogged filter.	Check all roller clamps. Ensure NEOFLUSS - RED [™] is patent. If the filter is clogged with debris, replace the entire set.
Air Bubbles	Improper priming or loose connections.	Close the clamp, adjust the drip chamber level, and gently tap the tubing to move bubbles upward to the chamber.
Leaking at Spike	Spike not fully inserted or bag port damaged.	Firmly insert the spike to its full length. If leaking persists, discard and use a new NEOFLUSS - RED [™] .