



SafeSet™

Blood Sampling System

To prevent blood from backing up in line:

- › Ensure all connections in line are tightened.
- › Ensure SafeSet reservoir is in the LOCKED position.
- › Pressurize solution bag to 300 mmHg.
- › Change vented (white) caps to non-vented (yellow) caps.

To prevent air bubbles in line:

- › Prime pressure monitoring kit with SafeSet under gravity.
- › Ensure SafeSet reservoir tip is pointed up (one-way stopcock on top) with plunger pulled back to 2 mL when priming.
- › Tap reservoir and transducer to ensure all air bubbles have been eliminated when priming, then lock in place.
- › Invert and tap blood sampling ports to remove air bubbles when priming.
- › Draw back SLOWLY, no faster than 1 mL per second on reservoir, when drawing clearing volume.
- › Reinfuse patient's blood slowly, no faster than 1 mL per second, by pressing the plunger back to the closed and LOCKED position.

When using a blunt cannula for blood sampling:

- › Once blood sample has been obtained, turn one-way stopcock between sampling port and patient to the "OFF" or perpendicular position.
- › Disconnect blood tube holder and blunt sampling device TOGETHER from sampling port.
- › Turn one-way stopcock at the reservoir tip between port and patient to the "ON" position and flush line.

When using a syringe for blood sampling:

- › Once blood sample has been obtained, and prior to removing syringe from sampling port, turn one-way stopcock between sampling port and patient to the "OFF" or perpendicular position.
- › Next, disconnect syringe and blunt sampling device TOGETHER (or single syringe if using luer-activated device (LAD) kit) from sampling port while slightly pulling back on syringe plunger.
- › Turn one-way stopcock between port and patient to the "ON" position and flush line.

To set up the Transpac™ transducer with SafeSet system:

- › Check all connections for tightness.
- › Pull SafeSet reservoir plunger tip back 2–3 mL from the closed and “LOCKED” position.
- › Spike fluid source and insert IV solution bag into pressure administration cuff and hang it from IV pole. (ICU Medical recommends that the system is primed using only gravity pressure.)
- › Remove white vented cover from venting (zeroing) stopcock next to transducer, activate flush device (squeeze or pigtail), and fill line slowly through transducer and out side port of venting (zeroing) stopcock.
- › Turn handle off (towards side port) and place yellow non-vented cap on side port.
- › Ensure that reservoir tip is pointed up, with one-way stopcock on top. (Note: The plunger tip is still 2–3 mL from the closed and “LOCKED” position.) Activate flush device to prime reservoir tip. Once fluid has passed the one-way stopcock, plunger can be closed until it is in the “LOCKED” position.
- › Activate flush device to prime patient line.
- › Zero balance monitor according to monitor manufacturer’s recommendations.
- › Check entire system to ensure there are no air bubbles. At this point the transducer kit is ready to be connected to the patient catheter.



To obtain a blood sample:

- › Release locking mechanism on reservoir by depressing the ridged plunger wings gently.
- › Pull back on plunger slowly, no faster than 1 mL per second, to aspirate an appropriate clearing volume.
- › Once appropriate clearing volume has been obtained, turn one-way stopcock at tip of reservoir off by turning handle perpendicular to the tubing. This will ensure that the sample will not contain any of the clearing volume.
- › Per facility protocol, use disinfectant to cleanse cannula access device (CAD) or LAD port from which sample will be drawn.
- › If using a CAD, attach SafeSet system blunt cannula to blood collection device (syringe or blood tube holder).
- › Attach blood sampling device to either CAD or LAD and aspirate required blood for sample.
- › Turn one-way stopcock at tip of reservoir on by turning handle parallel to tubing.
- › Elevate tubing then reinfuse patient’s blood at a rate no faster than 1 mL per second by pressing plunger back to closed and “LOCKED” position.
- › Per facility protocol, use disinfectant to cleanse the port the sample was drawn from.
- › Activate flush device until line is clear of all blood.



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