



SafeSet™

Blood Sampling System

1. Priming



- › Check all connections for tightness on the Transpac IV SafeSet monitoring kit.
- › If you are using an “add-on” SafeSet extension set, remove white vented cap from female luer and attach female luer to monitoring kit.
- › Attach transducer to reusable mount.



- › Remove white vented cap from zeroing stopcock and turn stopcock handle “off” to patient.
- › Prime the transducer system and SafeSet under gravity.
- › Activate fast flush mechanism of the continuous flush device and fill transducer slowly until air-free. Flush fluid through transducer and side port of zeroing stopcock.
- › Turn handle of zero reference stopcock “off” to side port. Place a yellow non-vented cap from spare parts bag onto side port.
- › Remove white vented cover from male luer at patient connection.



- › Release locking mechanism on SafeSet in-line reservoir by depressing ridged area of plunger clip. Pull in-line reservoir plunger back to approximately 2 cc.
- › Hold SafeSet in-line reservoir in upright position with tip pointed up.



- › Activate flush device. Check for adequate removal of any air bubbles at tip of SafeSet reservoir, allowing fluid to go past 1-way stopcock distal to SafeSet reservoir. “Close” SafeSet reservoir until it is in the locked position.
- › Pressurize solution bag to 300 mmHg.
- › Continue to flush until all air is cleared from system to reduce risk of air emboli.
- › Secure a non-vented cover provided in spare parts bag to distal end of set.



- › For systemic arterial pressure line, activate flush mechanism in monitoring kit while allowing arterial cannula to back flow during attachment. For pulmonary artery catheters, monitoring system should be attached to catheter and catheter filled with IV solution prior to insertion. Follow catheter manufacturer’s instructions.

2. Obtaining A Blood Sample



- › Release locking mechanism of SafeSet in-line reservoir by depressing on ridged area of plunger clip.
- › Pull back on plunger slightly to fill. Fill reservoir no faster than 1 cc per second to avoid occlusion of catheter.



- › Once an appropriate discard volume has been obtained in SafeSet in-line reservoir, turn “off” one-way stopcock integral to reservoir. This is done by turning handle perpendicular to tubing.



- › Per hospital policy, use disinfectant to cleanse SafeSet sampling port from which sample will be drawn.



- › Attach SafeSet blunt cannula or shielded blunt cannula to blood collection device (e.g., syringe, blood tube holder).



- › Insert shielded blunt cannula into cleansed SafeSet sampling port. Obtain necessary amount of blood for a sample into blood collection device.
- › Insert blood vacutainer if using a blood tube holder.



- › Prior to removing needleless access device, turn one-way stopcock between sampling port and patient “OFF,” if accessible.
- › Remove blood sampling device from sampling port as a single unit.
- › If using a syringe, aspirate slightly while removing the blood collection device from sampling port as a single unit.



- › Turn one-way stopcock distal to sampling port back to “ON” position (handle of stopcock parallel to patient line).



- › Turn one-way stopcock integral to in-line reservoir back to “ON” position (handle of stopcock parallel to patient line).
- › Return fluid contained in SafeSet in-line reservoir back to patient by slowly pressing down on plunger.
- › Return reservoir volume to patient at a rate of 1 cc per second, until plunger reaches its locked position.



- › Once the SafeSet in-line reservoir is in locked position, activate flush device until line is clear of all blood.
- › Using disinfectant, per hospital policy, cleanse SafeSet port following sample removal.