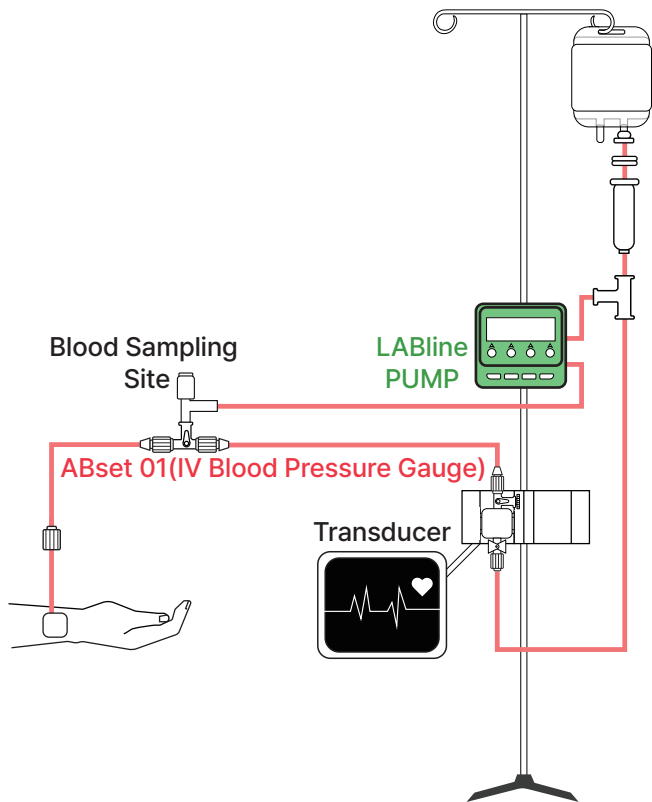


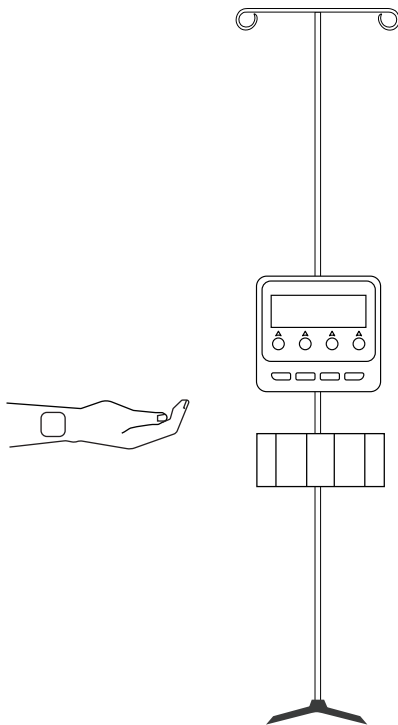
LABline Quick Guide For Hospital

LABline General Configuration



사용 전 준비사항

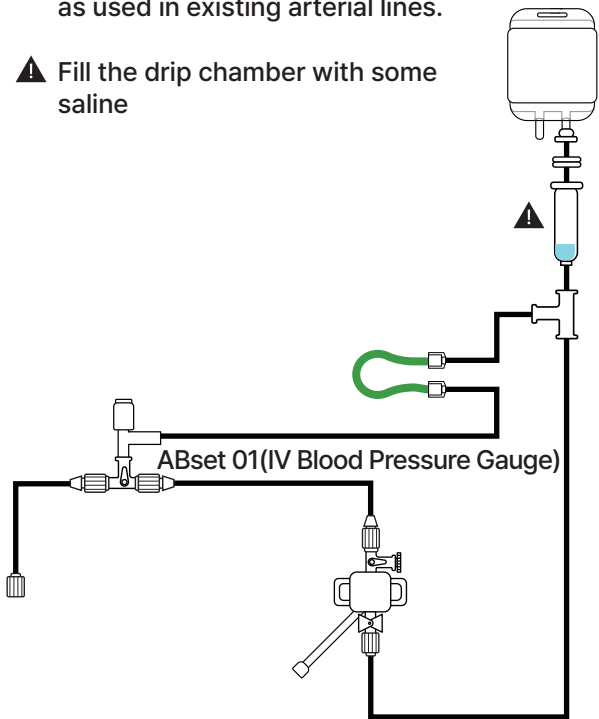
- 1) Ensure that LABline PUMP is properly installed on the IV pole next to the patient. Then ensure that the power cable is properly connected to LABline.



2) Connect the IV Bag with AB set 01 (IV Pressure Gauge Meter). Establish pressure within the IV bag via the pressure bag.

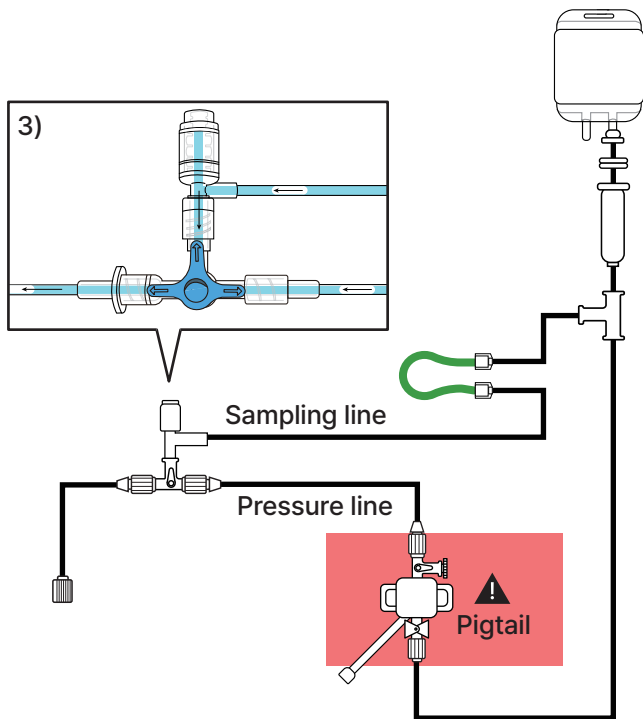
⚠ Apply the standard amount of pressure as used in existing arterial lines.

⚠ Fill the drip chamber with some saline



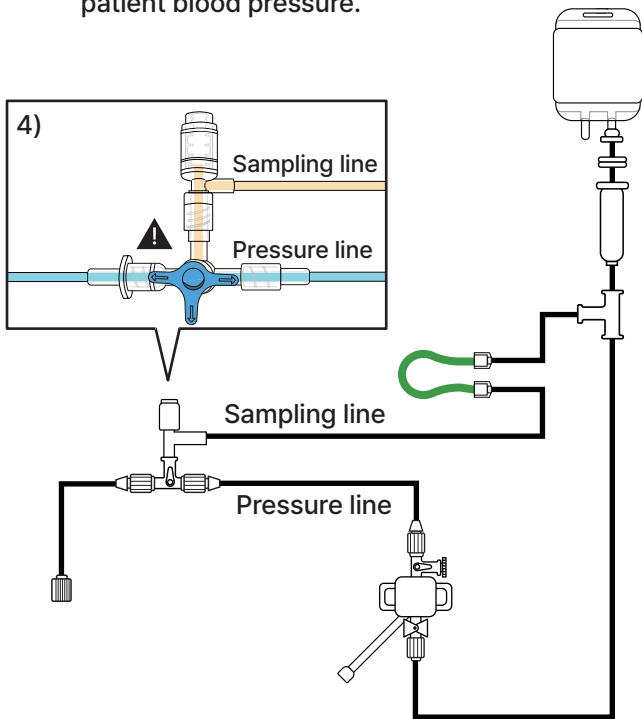
- 3) Open all lines by turning the 3-way as shown below.
Prime the system in order to clear all air from the lines.

⚠ Do not forget to pull the transducer's pigtail.
Required for air removal of the pressure line.



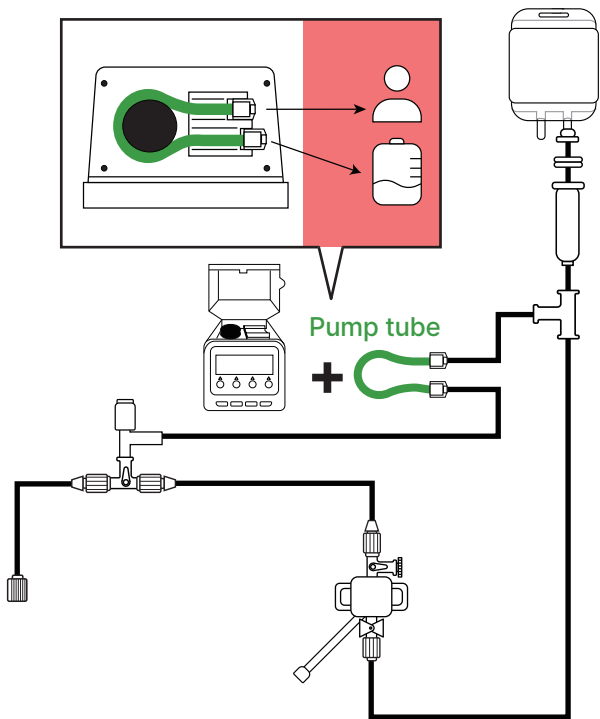
4) After priming the system, configure the 3-way as shown below. This closes the sampling line.

⚠ Must configure the 3-way as shown below or it will not be possible to monitor patient blood pressure.



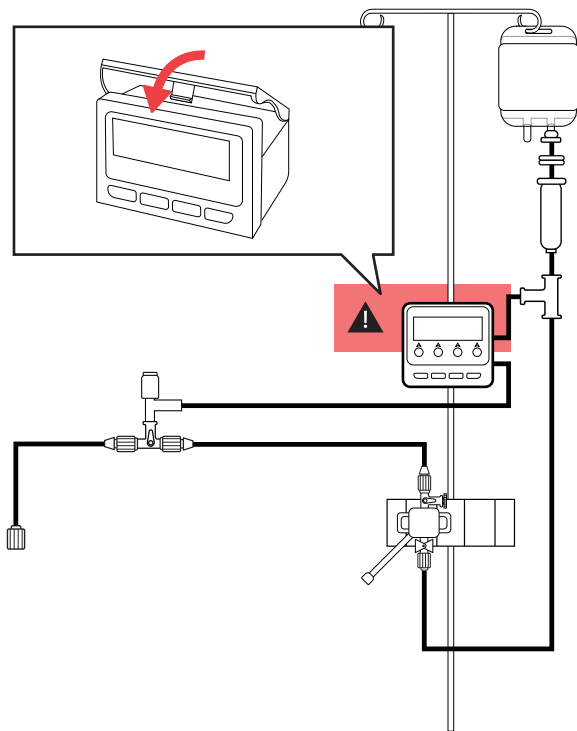
5) Open the PUMP lid and install the pump tube in the correct orientation.

⚠ The lid will not be able to be closed if the tube is installed incorrectly.

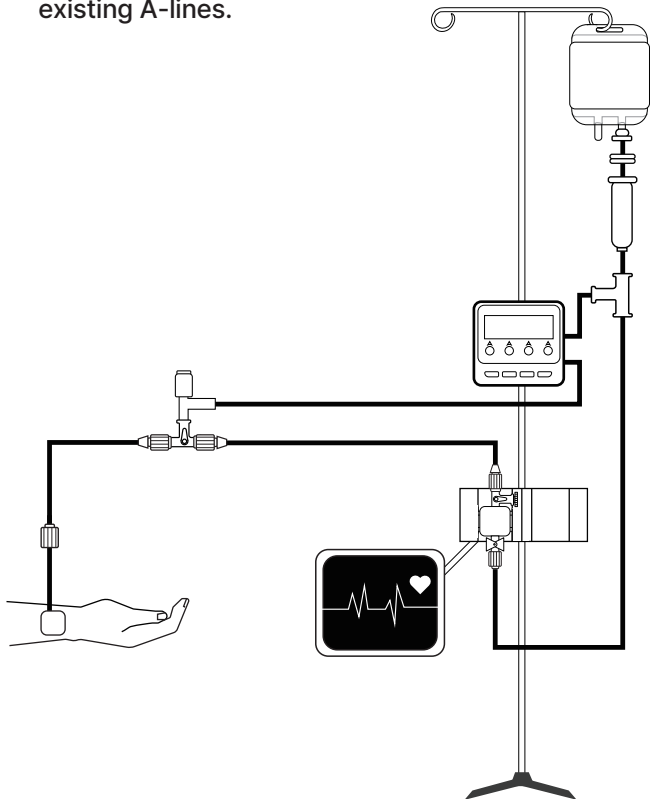


6) Close the PUMP lid and press the power button.

⚠ The LCD will display a warning if the lid is not closed properly.

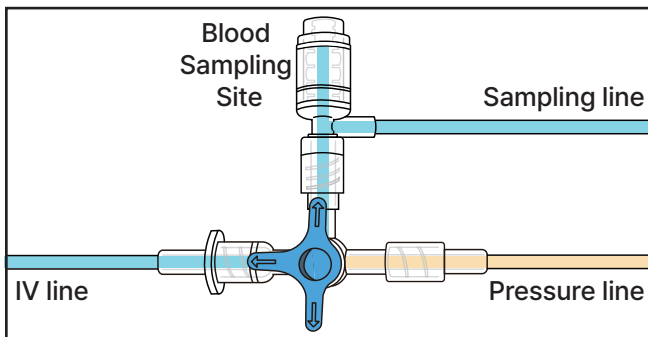


- 7) Connect the end of the AB set to the patient catheter and zero the system. Zeroing can be performed with the same method used for existing A-lines.

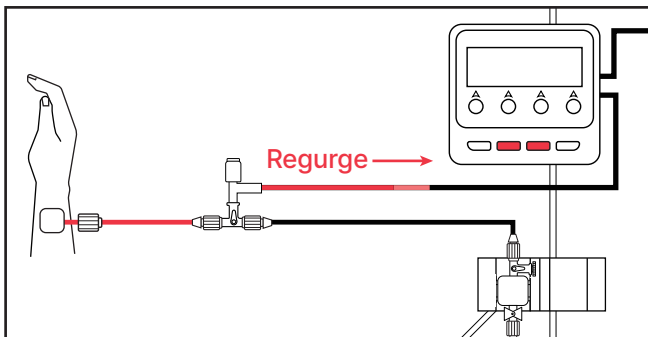


채혈 방법

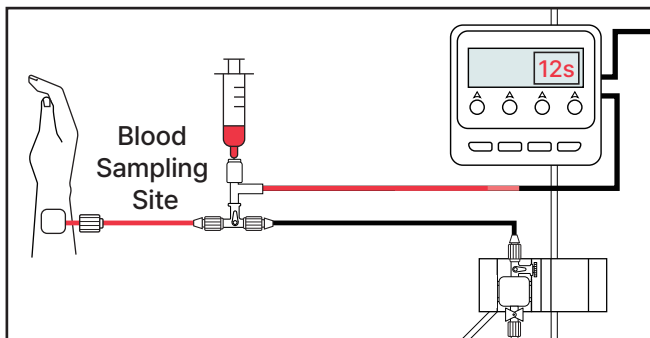
- 1) Connect the Sampling line and IV line by configuring the 3-way as shown below. This must be done before operating the PUMP



- 2) Press the 10s DRAW or 20s Draw button depending on the volume of blood to be collected to start Regurge.

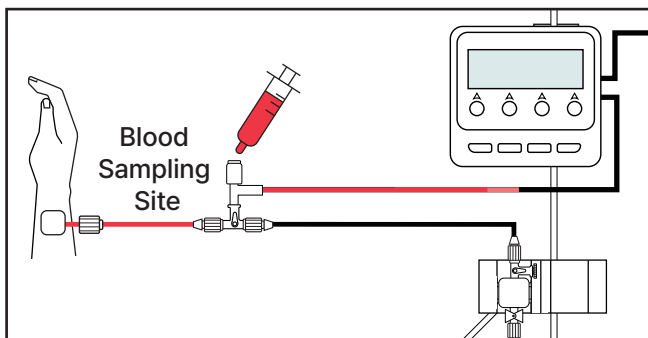


- 3) Once Regurge is finished, collect blood at the blood sampling site.



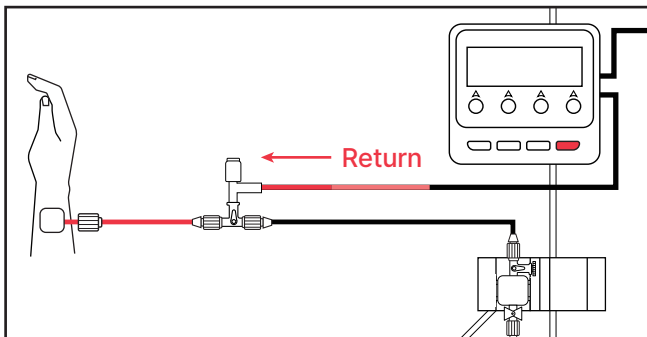
- ⚠ Observe the time limit shown on the screen when collecting blood.
- ⚠ If time runs out before blood sampling is over, respond as follows.
1. Stop blood collection immediately.
 2. Disconnect the syringe from the blood sampling port.
 3. Wait for the PUMP to enter standby mode.
 4. Repress the DRAW button and Regurge the blood.
 5. Once Regurge is finished, finish blood sampling with a new syringe.

- 4) Once sampling time runs out, blood will automatically return to the patient.

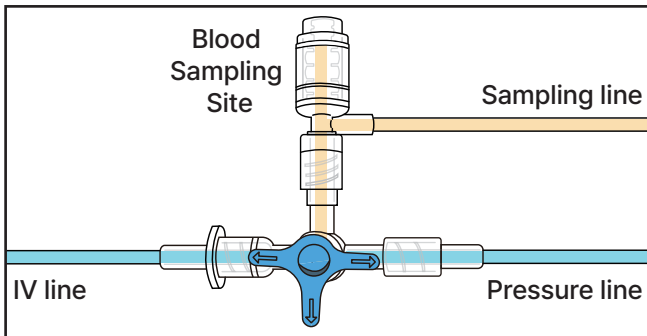


- ⚠** If the syringe is not disconnected once the time limit runs out, the initially drawn diluted blood may mix with the sampled blood inside the syringe. Be careful that diluted blood can lead to inaccurate values during blood examination.

- 5) Blood will automatically return to the patient once sampling time runs out. Pressing the FLUSH button will immediately return the blood to the patient.



- 6) Once Return is completed, configure the 3-way as shown below in order to connect the Pressure line and the IV line.



Q & A

Q: What if the machine malfunctions and forces the PUMP to stop while the blood is being Regurgated.

A: If the machine does not return to the main screen and the error repeats, stop using the machine and press and hold the power button to turn off the machine. Press the power button again to reboot, and if the machine displays the STANDBY screen properly, press the FLUSH button to return the blood to the patient.

At the discretion of the medical staff, if a blood clot is suspected to have formed in the line, separate the PUMP and tubing and connect a separate syringe to the sampling port to absorb the blood clot in the line.

If the blood clot is causing a serious issue, separate the AB set from the patient catheter. Clean the inside of the line by manually flushing the AB set. Priming the AB set will prepare the AB set for use with the same patient, but the AB set can also be discarded at the discretion of the medical staff.

Q: Is there any risk of air being injected into the blood vessels through the line?

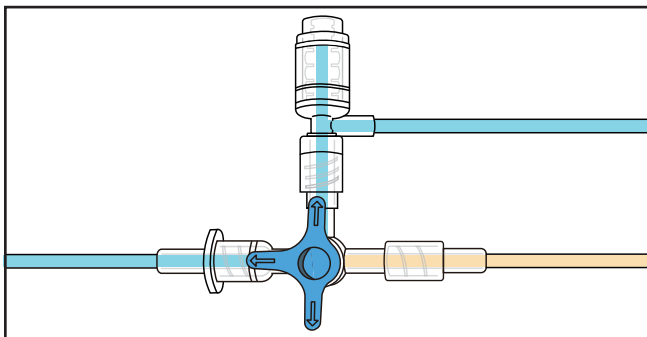
A: The machine will automatically display a warning and stop operation if it detects air inside the system. In this case, disconnect the AB set and the patient catheter. Press the PUMP's FLUSH button to prime the system or manually flush the system of air with the FLUSH button.

Q: What if the error of the product persists?

A: If the product keeps displaying errors, check the warning displayed on the LCD screen. If you are unable to handle the issue, please stop using the product immediately and contact your supplier or manufacturer.

Items to Confirm Before Usage

Before using PUMP, configure the 3-way as shown below for standard blood collection.



Normal Blood Pressure monitoring is possible only when the 3-way is configured as shown below.

