

November 23, 2015

**Assembly and Detailed Testing Instruction**

- Dialog+ SW 9.xx

- **Level Regulation Option: Tubing Connection between Level Regulation Pump and Level Regulation Valve Block**

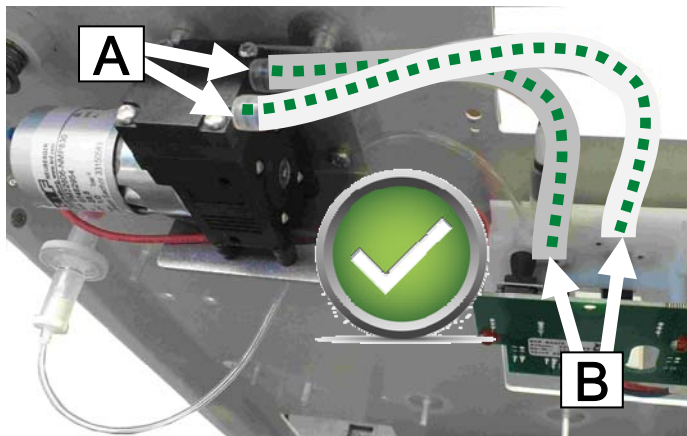
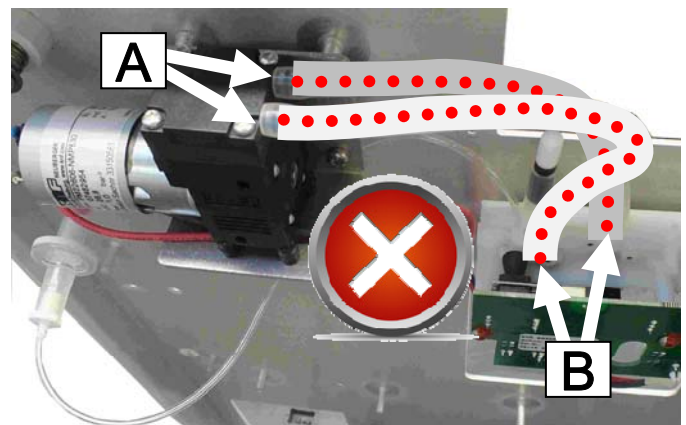
**1. Related Machines**

Dialog+ machines with software 9.xx and a level regulation option.

**2. Assembly and Connection of Tubings**

It is technically possible to incorrectly connect both tubings at the level regulation pump **A** or at the level regulation valve block **B**. This can occur during service, e.g. exchange of a defective part, disassembly for better access during a service activity.

These incorrect connections of the tubings **A/B** will cause a malfunction of the level regulation system, which is not necessarily recognized by the user.

Fig.: Correct connection **A/B**Fig.: Incorrect connection **B****3. Service Activities with Detailed Testing Instruction**

The correct connection of the tubings **A/B** shall be ensured after assembly by a visual check and a functional check.

Connect a blood line system (normally used by the user) to the machine. All fluid levels in the connected chambers shall increase and decrease by activating the *Up* and *Down* icons in a simulated treatment. The machine shall be released for patient use only if the level regulation works correctly, i.e. the level in the connected chambers decrease when the *Down* icon is activated and increase when the *Up* icon is activated.

The tubings of the level regulation pump are incorrectly connected if:

- the response to the *Up/Down* test is incorrect and the level in the PV chamber increases in both cases
- the response in the other chambers are reverse to the expected result

**WARNING**

**Hazard of air infusion via the arterial or venous patient connection due to an incorrect connected level regulation pump.**

- Prepare the machine for a simulated treatment and perform a test treatment.
- Activate the *Up* and *Down* icons for each chamber.
- Confirm that the level was checked and responded correctly according to the above description.

With best regards

Michael Kay

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