

November 23, 2015

Assembly and Detailed Testing Instruction

- **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.

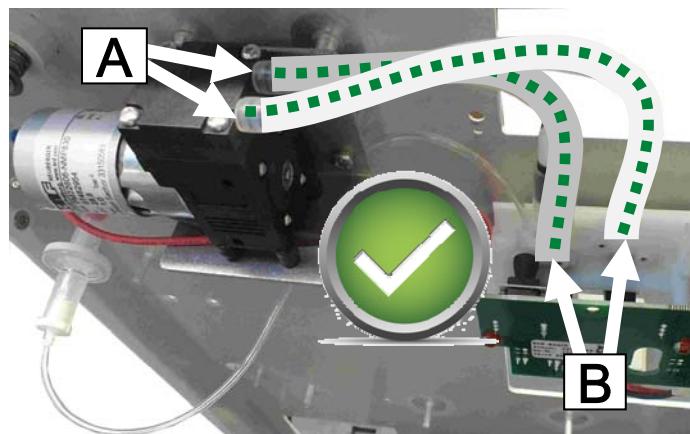


Fig.: Correct connection A/B

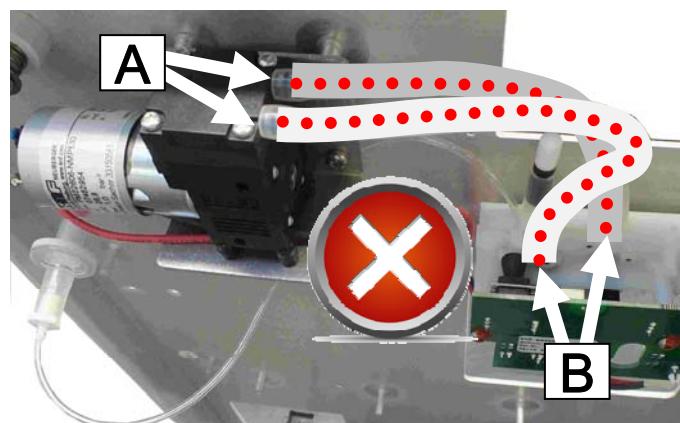


Fig.: Incorrect connection B

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



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

For more information please contact your local B. Braun Medical support.

B. Braun Avitum AG, 34209 Melsungen, Germany

Telephone: + 49 (0) 5661/71-5015 E-Mail: techsupport_ba@bbraun.com

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