

March 15, 2017

## Check Correct Wiring for Valves VCS1/2, VCSB1/2 and VCR in the Central Concentrate Supply CCS Option

- Dialog iQ

### 1. Related Machines

The following Dialog iQ machines are affected: Dialog iQ and Dialog iQ HDF online with central concentrate supply option.

### 2. Problem

The valves VCS1/2, VCSB1/2 or VCR do not open/close in correct order.

### 3. Cause

The correct electrical wiring for the concentrate supply 1/2 valves VCS1/2, concentrate supply block 1/2 valves VCSB1/2 or concentrate rod block valve VCR may be interchanged in the concentrate 1 or 2 line (see figure 2).

### 4. Service Activities

Check the valves/pressure sensors in the concentrate line 1 for correct electrical and hydraulic connection.



Fig. 1: 1.32 central concentrate supply menu in TSM service program

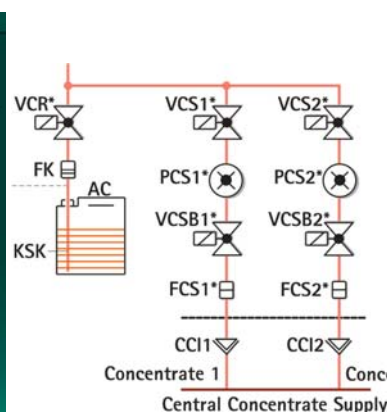


Fig. 2: Excerpt from flow diagram

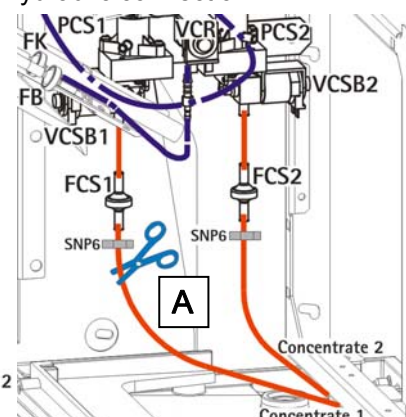


Fig. 3: Tubing concentrate 1 clamped A

### Check Valves for Central Concentrate Supply

1. Disconnect female coupling and male connector from concentrate 1, loosen tubing clamp and remove female coupling.
2. Switch on machine in TSM service program.
3. Activate the *1.32 Central Concentrate Supply* menu with the *Central Concentrate Supply* button in the *Low Level Test* menu (see figure 1).
 

**Note:** All valves are closed, and the tubing line for concentrate 1 is clamped A (see figure 3). The valves and pressure sensor in the second tubing line for concentrate 2 do not have to be checked additionally because they are checked together with the tubing line for concentrate 1.
4. Pull out the red suction rod from the concentrate suction rod retainer.
5. Open valves VCR and VCS1 to get a pressure equalization.
6. Set KP to approx. 50 rpm.
7. Close valve VCR, and check that a negative pressure is built up at pressure sensor PCS1.
8. Open valve VCSB1 and remove clamp A at tubing for concentrate 1. If the pressure at PCS1 increases, the wiring /tubing is correct.
9. Interchange wiring for valve or pressure sensor if connected incorrectly.
10. Perform complete check once more if wiring/tubing had to be changed.
11. Switch off machine and select therapy mode again.
12. Connect female coupling to tubing concentrate 1 in reverse order.

### Repair Matrix for Central Concentrate Supply

This test has to be performed after every service activity on a central concentrate supply.

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

FSI\_2017\_1.1\_Dialog iQ\_CCS Valves VCS-VCSB-VCR\_EN.doc/pdf

Rev.: 1.01.00/2017 March