

### FX 3000-IV: How to troubleshoot problem “Test pressure discrepancy”

06/2020, NF

**Problem:** The error message “Test pressure discrepancy” appears, if - after a delay of approximately 5 to 10 seconds - the measured test pressure is not within the expected pressure range.

#### Possible reasons:

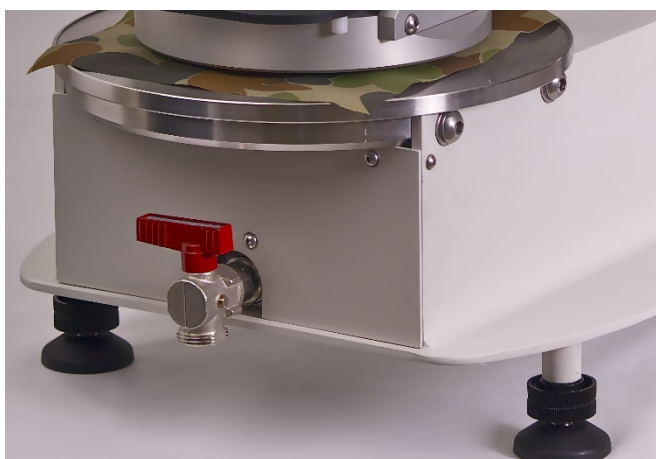
- 1.) FX 3000-4M and FX 3000-4H/H+ only: There is no compressed air connected to the instrument. Please check the compressed air connection at the back side of the instrument and at the manometer at the right side of the instrument. It should show a pressure between 4 and 8 bar for the model M and between 6 and 8 bar for the model H.



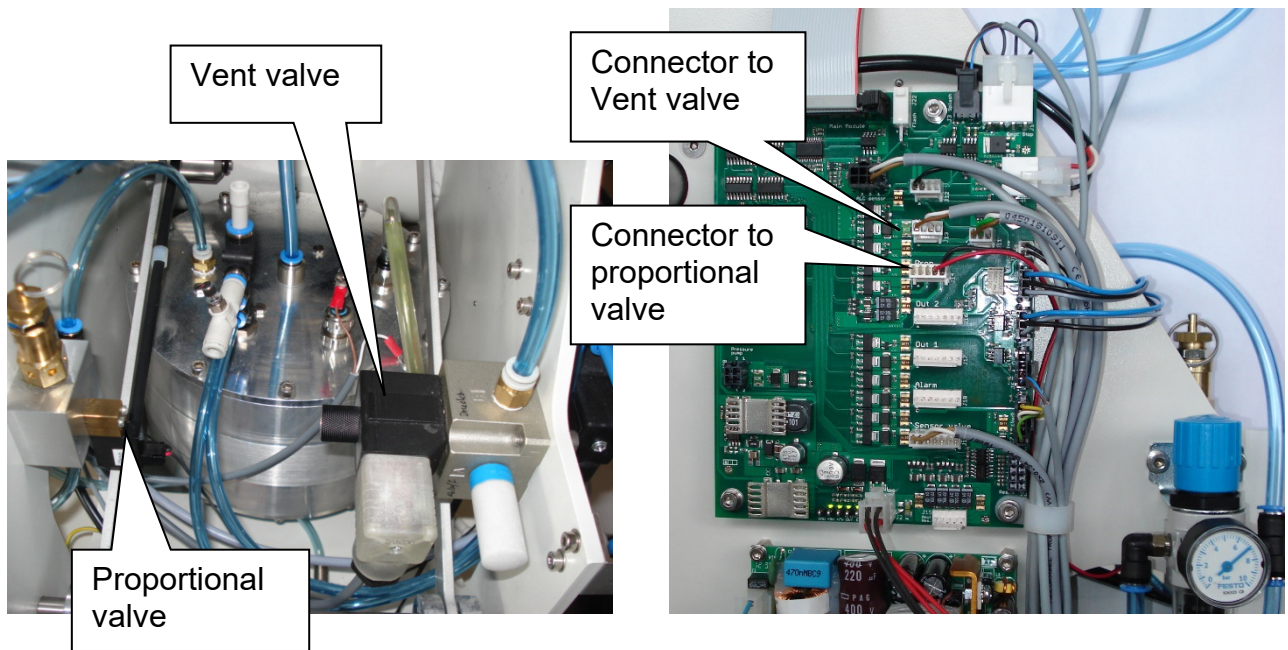
- 2.) The test stud is not inserted: Please check if the test stud is inserted (see picture below)



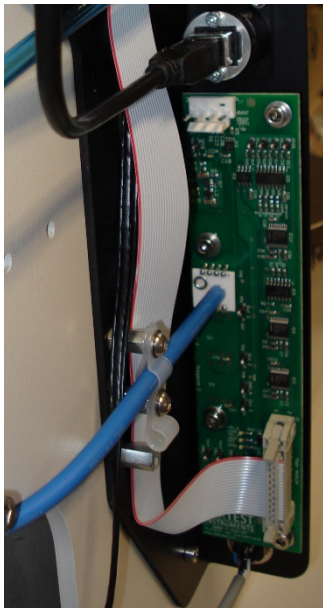
- 3.) The drain faucet is not closed: Please check if the drain faucet is closed (see picture below)



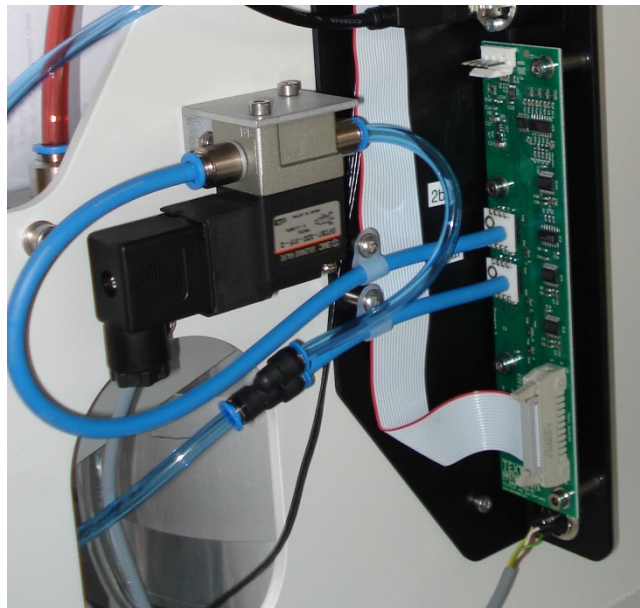
- 4.) There is no test specimen clamped or the test specimen is in fact leaking: Please check the instrument with the plastic (PVC) plate, which was delivered together with the instrument.
- 5.) There is a leakage inside the instrument: Please check inside the instrument, if all hoses are still connected properly and if there is no leakage. To get access to the inside of the instrument, you may have to open the instrument.
- 6.) The “Vent Valve” is not operating properly: When you start and stop a test, you should hear a “click-sound” at the valve (see picture below). If you don’t hear the click sound, please check whether you have approximately 22 V DC at the vent valve when a test is running. If not, please check the electrical connection at the electronic board.



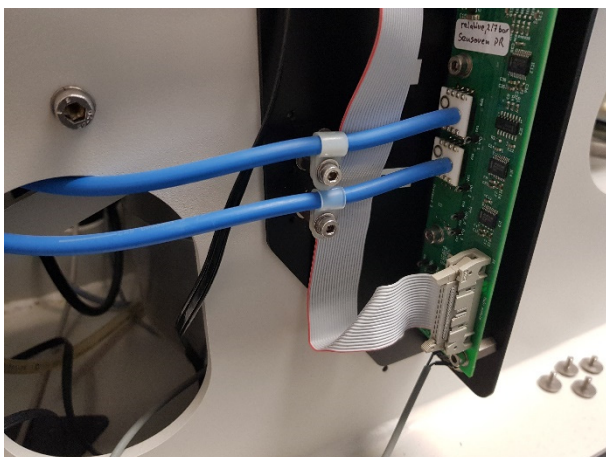
- 7.) The proportional valve (see picture in chapter 6) does not work correctly: The proportional valve, which generates the test pressure, is not powered up or the proportional valve is defective. Please check the voltage at the connector of the proportional valve (see picture above). After starting a test, the voltage should gradually increase up to approx. 22 VDC. If the voltage at the connector increases up to approx. 22 VDC and the test pressure is not building up, the pressure system is not tight or the proportional valve is defective. If the voltage at the connector is not increasing and stays at approx. 0V, most likely the I/O-board is defective and must be replaced.
- 8.) The sensor board is not connected properly or defective: Please check if the sensor board is connected properly (electrical- and pneumatic connection). Please note: The pneumatic connection of the sensor is quite fragile. Do not apply too much force !



FX 3000-4M



FX 3000-4H



FX 3000-4L-PUM