

Replacement of Solenoid Valve

in the BMT 965 C / 964 C

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This Service Note describes the replacement of the solenoid valve in our OZONE ANALYZER BMT 965 C or BMT 964 C and applies to analysers with the 24VDC version of the solenoid valve. The aim of this replacement is the reduction of returns due to a failing purge unit, and thus to extend the life expectancy of the installation.

The scope of delivery includes the solenoid valve on its mounting base **A**, and a new black tubing for the connection between purge pump and solenoid valve (already connected to the valve).

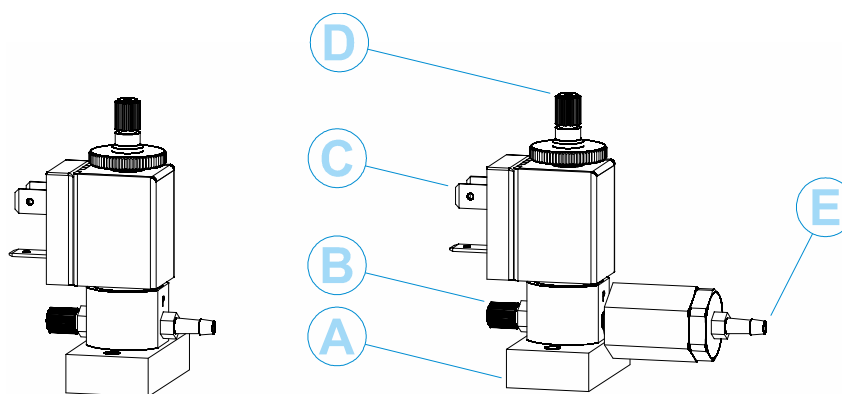


Fig. 1: old SVDC 24-96xC

new SVDC 24-C/OG-PC

Preparations

- make sure to perform this work on a clean, dust-free workplace
- it is recommended to create a Diagnostic Report before you begin, by using the free software BMT 96x Link (to be downloaded at <https://www.bmt-berlin.de/software>) for later comparison
- disconnect the analyser from mains power, and remove any ozone or overpressure from the hoses
- the work should be performed within an ESD controlled workplace, only – if unavailable, at least eliminate any electrostatic charge by touching a grounded surface before opening the analyser
- note the orientation of the valve, or take a photo

Unmount the valve

- disconnect the electric cabling **C** from the solenoid valve
- disconnect the tubing from fitting **E** on both sides, solenoid valve and purge pump (tubing will be replaced)
Attention: Fitting **E** is not made of metal, do not break it!
- disconnect the tubings from fittings **B** and **D**
- disconnect the black tubing from the pump as well (tubing will be replaced)
- remove the old solenoid valve from the analyser by removing the two mounting screws from base **A**

Mount the new valve

- before mounting the new solenoid valve, re-connect the lower clear (black covered) tubing to fitting **B**
- fasten the union nut in order to protect the tubing's end from wearing out while handling the valve
- if not already attached, connect the new black tubing to fitting **E**
- mount the new solenoid valve using the two mounting screws through base **A**
- connect the tubing from fitting **E** to the purge pump, choose a routing that prevents any crimps in tubing
- re-connect the electric cabling and finally, the upper clear (black covered) tubing **D** to the outlet of the valve
- perform a leakage test before applying ozone to the analyser

If any problems occur, do not hesitate to contact us:

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