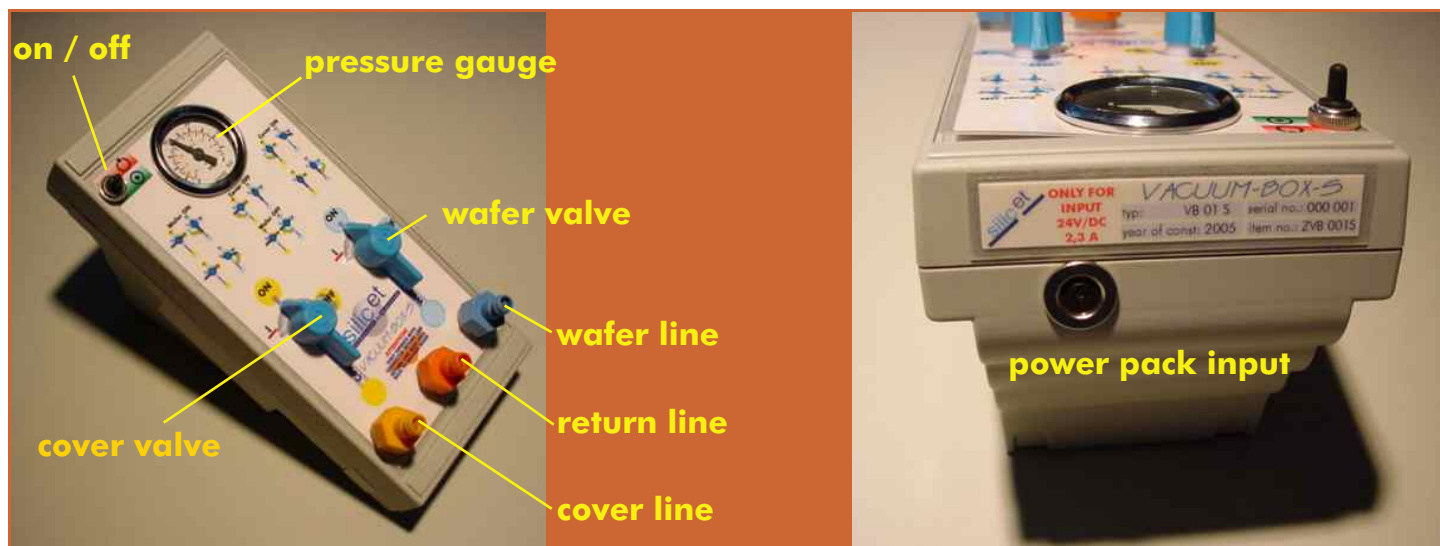


VACUUM-BOX-S

OPERATING INSTRUCTION -ABSTRACT-



This operating instruction is only a guideline for the daily use. It does not replace detailed operating instruction!

Before startup of the Vacuum-Box the detailed operating instruction has to be studied!

For the operation of the Wafer Holder please read the appropriate operating instruction!

Application:

- Vacuum supply for the wafer holder function. To suck off penetrating liquid out of the vacuum area in worst case (wafer breaks or the masking of the wafer is not correct).

Connection:

- Connect the blue coupling of the wafer holder with the blue plug of the Vacuum-Box. (Supply line of the sealing lips of the wafer).
- Connect the yellow coupling of the wafer holder with the yellow plug of the Vacuum-Box. (Supply-line of the sealing lips of the cover).
- Connect the orange coupling of the return line with the orange plug of the Vacuum-Box. Guarantee by general operating, possible liquid supply with additional rinsing routine, that the liquid and/or the nitrogen are riskless drained! Connect the return line to the current basin.

The operation without connected return line is not permitted!

- Put the plug of the delivered power pack (type NT 01) into the socket of the Vacuum-Box. (secondary: 24 VDC, 1,5 A)
- Connect the power supply plug with the plug socket of your voltage supply. (primary: 120 - 240 VAC, 50/60 Hz, 1,5 A)
- After connection, a green LED shines for voltage supply at the power pack.

The Vacuum-Box is ready for operation.

Safety regulations:

Consider the relevant safety regulations and guidelines for handling dangerous materials absolute!

VACUUM-BOX-S

OPERATING INSTRUCTION -ABSTRACT-

fig. 1a

- apply the wafer
- put the selector switch upward, the pump is working
- put the wafer valve switch into the shown position (fig. 1 a)
- the wafer will be sucked
- put the wafer valve into the shown position (fig. 1 b)

fig. 1b

fig. 2a

- apply the cover
- put the cover valve into the shown position
- the cover will be sucked
- put the wafer valve into the shown position (fig. 2b)

fig. 2b

the Wafer Holder is ready for operation

fig. 3a

- put the cover valve into the shown position
- the cover is released
- remove the cover

fig. 3b

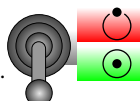
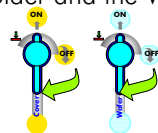
- put the wafer valve into the shown position
- the wafer is released
- remove the wafer

In case of Wafer Holder BASIC application, please proceed according to fig. 1 a and fig. 3b

Cleaning:

If process medium should have been sucked in, respective pumped during the process, the Wafer Holder and the Vacuum Box has to be cleaned as follows:

1. Turn the wafer and cover valve into the shown position
2. Put the return line of the Vacuum-Box into the rinse basin. Attend that liquid, respectively the nitrogen are riskless drained. The connection to the rinse basin has to be kept until the rinse process is finished.
3. Put the Wafer Holder without wafer and cover, approx 2 cm below the screw connections of the tubes into the rinse basin.
4. Turn the selector switcher downward into the shown position. Continuous operation mode.
5. Rinse with DI-water approx 3 - 4 minutes.
6. Pick up the Wafer Holder out of the rinse basin. Dry running approx. 1 minute.



7. Uncouple the couplings from the Vacuum-Box.
9. Deposit the Wafer Holder.
8. Connect the delivered cleaning connection (Y-connector) with the blue and yellow coupling of the Vacuum-Box.
9. Pick up the tube end out of the rinse basin and connect the tube end of the cleaning connection with the nitrogen link of your plant system.
Max. flow pressure: 0,5 bar (7,25 psi)!
10. Dry with nitrogen approx 2 - 3 minutes until yellow LED lapsed. Attend that the nitrogen is riskless drained!
11. Turn the selector switcher into the central position. Pump OFF



12. Uncouple the cleaning connection at the Vacuum-Box.