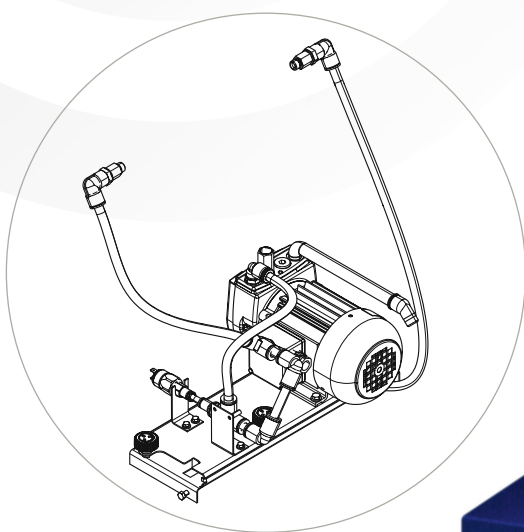


OPERATING INSTRUCTIONS - ADDITIONAL INSTRUCTIONS

VADS 250/2

INTERNAL SEAL GAS SUPPLY

MAKE IT BECKER.



1 GENERAL

The seal gas supply unit consists of a pump (DT 4.6/0-61.1) and a pressure sensor. At a fixed pressure setting, the pump delivers the right amount of seal gas required to operate a VADS250/2 screw vacuum pump.

The pressure sensor provides a signal indicating whether the pump is working.

2 FUNCTIONS

2.1 OVERPRESSURE IN THE PUMP OUTLET



The pressure value of the pump is pre-set at the factory and must not be changed in order not to endanger the functionality of the device.



When installing the VADS250/2 in larger plants, overpressure may build up in the outlet line of the pump.

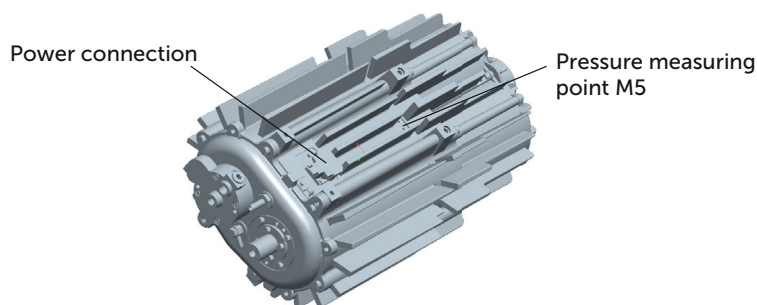
At pressures of > 160mbar there is a risk of damage to the VADS250/2

The following conditions lead to a pressure increase at the pump outlet:

- Long, zigzag outlet line (DN50) on the pump (>15m, >5 bends with 90° or more)
- Small pipe cross-sections (<50mm)
- More than 2 silencers
- Sluggish non-return valves (Does not apply if equipped with valves from Gebr. Becker GmbH)
- Heat exchanger in the outlet
- (Foreseeable) heavy contamination or dirt, causing the outlet to clog partially or completely.

If the pressure in the suction chamber is higher than 160mbar, the supplied seal gas cannot flow towards the pump's suction chamber. The sealing effect of the gas is then lost.

To measure the pressure manually, a hose line (inner diameter 4mm, suitable for temperatures up to 95°C, e.g. silicone) must be connected to the pressure measuring point (M5 thread) on the underside of the pump housing.



2.2 MONITORING THE PRESSURE



If no seal gas is applied, oil will seep from the gearbox in the direction of the oil-free pump chamber, where it will cause contamination.

Furthermore, harmful particles, water or other conveyed substances can work their way in the direction of the motor and gearbox and cause damage to the pump there. For this reason, the seal gas pressure must be monitored.



The sensor of the seal gas supply is designed as a switch ② 42V/100VA.

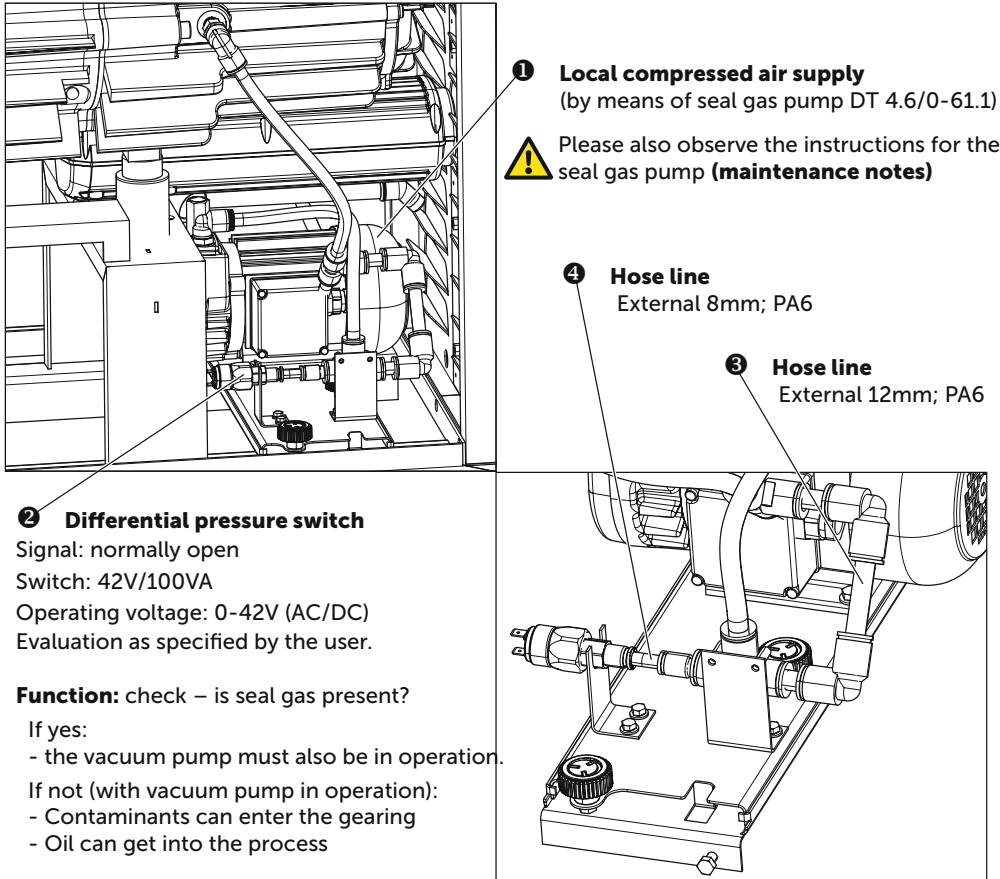
The use of the signal is variable. It is determined by the user of the pump. Example: switching off the pump or activating a visual or audible signal.

3 CONNECTING THE SEAL GAS SUPPLY UNIT

The VADS250/2 has 2 rotating shafts and therefore also 2 seals, which require the application of seal gas.

There are therefore 2 access points in the gear housing of the pump, which are sealed with plugs when the device is delivered. The threads on these connections are of size G1/4".

The local compressed air supply ❶ (seal gas pump DT 4.6/0-61.1) is connected to the device via a main line ❸, which is split into 2 gas flows by a T-connection shortly before the device. Hose lines and fittings must be able to resist continuous temperatures of at least 90°C.



3.1 ELECTRICAL CONNECTION



The additionally required power supply for the seal gas pump is provided by the user.

The pump is switched on and off by the user. The pressure sensor provides a signal indicating whether the seal gas pump is working.

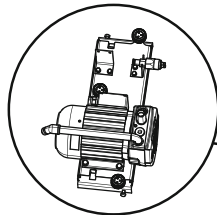
Pressure sensor DSSR 1 (closer) electrical connection via:

Flat connector 6.3x0.8 (AMP 6.3x0.8) (pin lug)

If the vacuum pump is switched off, the seal gas pump must also be switched off.

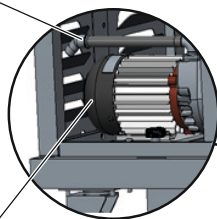
Both pumps must always be in operation or both must be switched off.

Place the seal gas assembly
on the mounting plate.

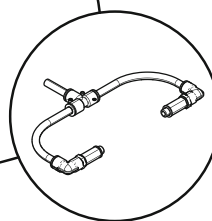
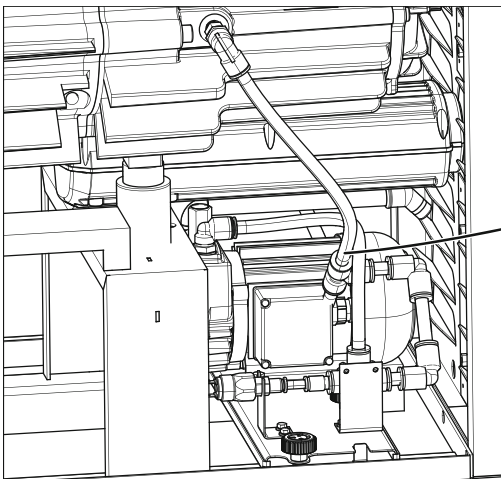
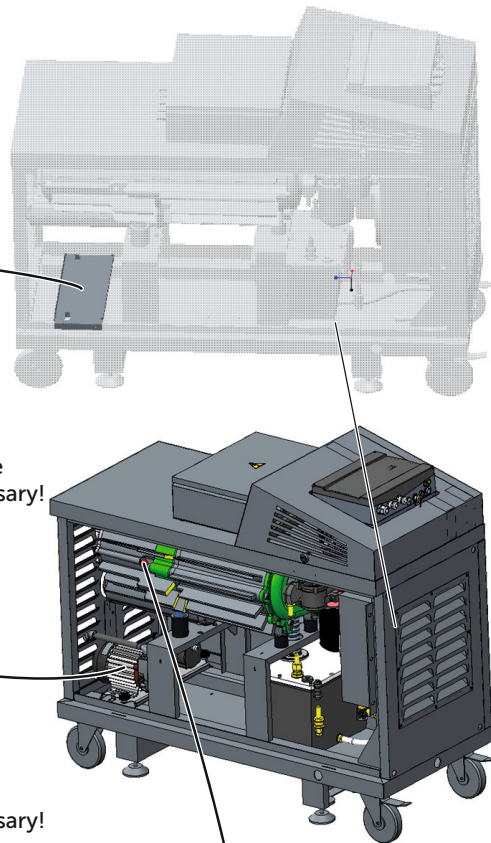


Secure it with the screw knobs

Alignment of the suction pipe to the
ventilation grille is absolutely necessary!



Alignment of the motor fan to the
ventilation grille is absolutely necessary!



Hose line: External 12mm, PA6

Pump connection: 2x G1/4



MAKE IT BECKER.