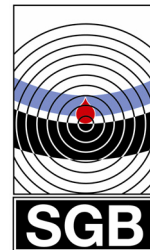


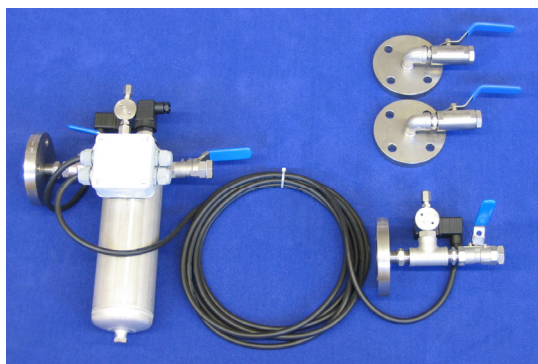
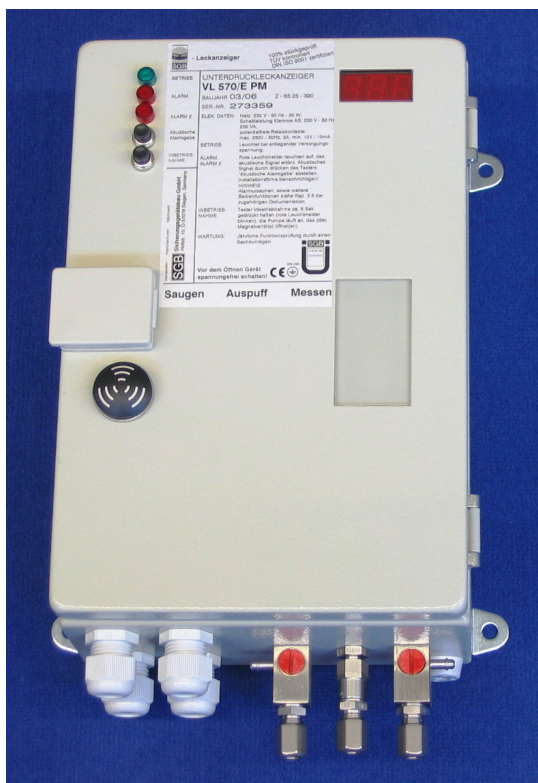
# Leak detection technology

For a clean and protected environment



**New**

## Underpressure leak detector VL 255/E PM



Installation kit for flat bottom tank consisting of:  
1 suction- and 1 measuring line connection  
2 test port connections

| Alarm underpressure       | Operational underpressure |
|---------------------------|---------------------------|
| > 255 mbar<br>(> 3.7 psi) | < 380 mbar<br>(5.37 psi)  |

An underpressure leak detector with extended electronic functions (/E) in weatherproof design (P) and digital pressure indication (M) for flat bottom tanks (bulk storage tanks).

A sensor in the suction line detects appearing liquids and triggers the alarm. Any alarm, either caused by a pressure drop or caused by detecting liquid at the sensor will result in shut down of the vacuum pump and closing of the solenoid valves in the suction- and measuring line. The leak detector VL 255/E PM is therefore particular suitable for the control of flat bottom tanks where aggressive liquids are stored.

This leak detector is resistant to an overpressure up to 5 bar, to cover the overpressure, which may occur in case of a leak in the upper bottom.

A display indicates the actual pressure in the system. Three way cocks in measuring line and suction line allow a quick and easy function check. Weatherproof designed for the installation outside.

Every leak in one of the walls will be indicated by an optical and audible alarm before liquid enters the environment.

(Class I-system in accordance to the European standard EN 13 160)

### Liquids to be monitored:

- water polluting liquids with a flashpoint > 55°C e.g. lye and acids
- others as long as the chemical resistance against the liquid is sufficiently given

### Approved for the use together with:

- bulk storage tanks (flat bottom tanks) with double bottom (e.g. DIN 4119 or similar)

### Approvals:

- Germany: Z -65.22 – 389

Sold by:

**SGB GmbH**

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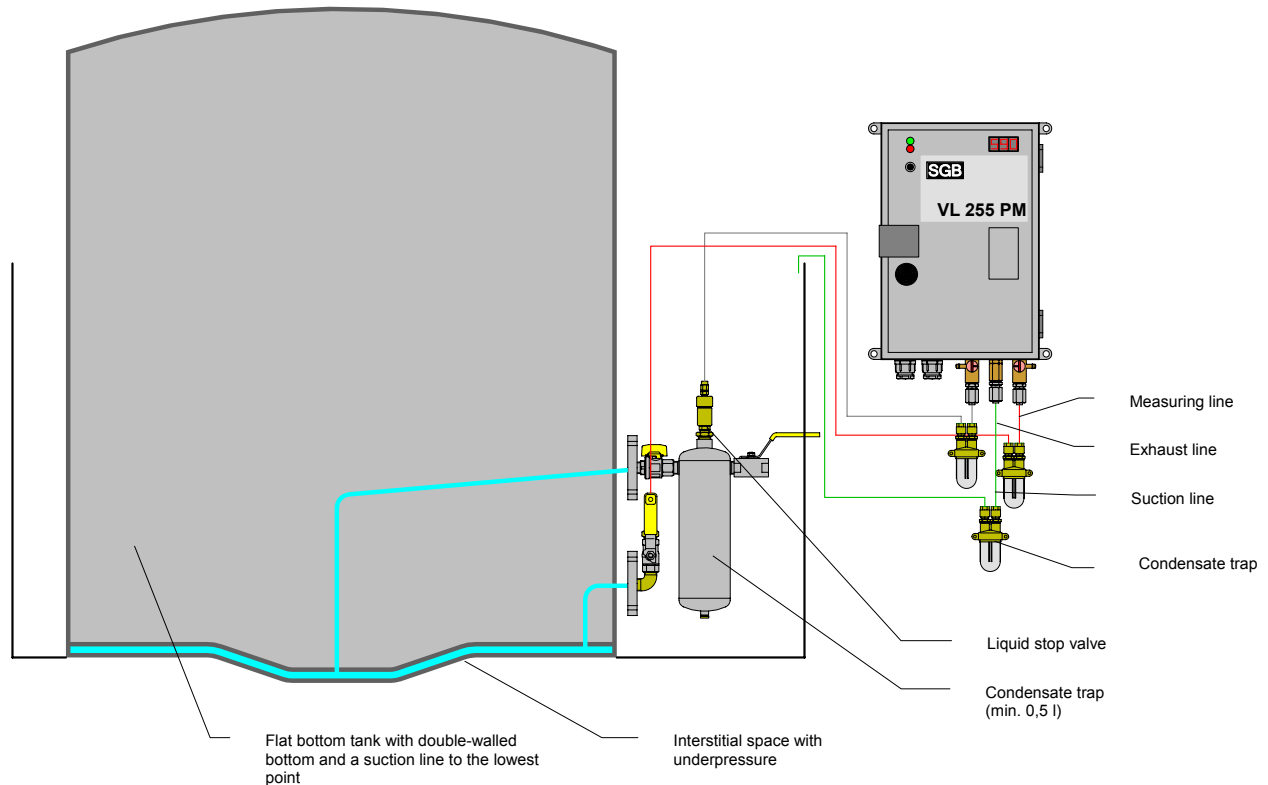
E-mail: [sgb@sgb.de](mailto:sgb@sgb.de)

# Leak detection technology

*For a clean and protected environment*



## Underpressure leak detector VL 255/E PM



### Monitoring principle:

The pump in the leak detector creates an operational underpressure in the interstitial space.

Any minor unavoidable untightness is compensated by the system automatically.

In case of a leak, air, groundwater or product is sucked into the interstitial space:

If the volume flow of air entering the interstitial space is higher than the limited volume flow of the vacuum pump, the pressure will rise to the alarm pressure.

If Groundwater or stored product is sucked into the interstitial space and into the liquid stop valve, this then will close. No further vacuum can be produced. Some more liquid will be sucked into the interstitial space, causing a rise in pressure to the alarm underpressure. In both cases the optical and audible alarm is released.

### Installation advice:

The leak detector shall not be installed in a potentially explosive atmosphere.

For the installation outside closed and dry rooms, the leak detector VL 255/E PM realises the required weather protection.

Chemical and pressure resistant tubes are to be used as a connection lines between leak detector and interstitial space.

Condensate traps are to be installed in all low points of the connection lines, when necessary.

Three way cocks in the measuring- and the suction line on the leak detector guarantee a quick and easy function check.

Dry relay contacts for alarm transmitting are included as standard.

When operating, installing and commissioning the leak detector VL 255/E PM the conditions laid down in the approvals for the leak detector, tanks and linings are to be observed.

All works shall be carried out by a qualified person.

Subject to changes. Photos and dimensions are not binding for the extend of delivery.

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