

# Leak Prevention Technology

For a clean and protected environment



## **NEW:** Vacuum Leak Detector VLXE .. A-Ex – the electronic version



**working unit**



**indicating unit**

This explosion-proof leak detector monitors double-walled tanks and pipelines with explosive liquids. The leak detector consists of a working unit (category 2, zone 1, preferably outdoors) and a weatherproof leak indicating unit (installation outside the hazardous area).

Different variants allow optimal adaptation to local conditions. Easy and quick installation is supported by practical installation kits.

The electrical connection of the leak detection system is made via the leak detection unit LAE ... PM(MV). This in turn is connected to the working unit. The following applies: 1 working unit = 1 leak detection unit.

The dimensions and weight of the working unit and the leak detection unit make them easy to handle and weatherproof. Additional heating is not required for outdoor installation down to -40°C.

Three-way cocks in the measuring and suction lines allow easy and time-saving testing of the leak detector. Potential-free contacts for alarm forwarding are included as standard.

Versions of the leak detector in brass or stainless steel of different grades allow adaptation to the chemical aggressiveness of the stored/conveyed goods to be monitored.

Like all SGB leak detectors, the VLXE ... A-Ex permanently monitors both walls of a double-walled system and indicates any leakage in one of the walls by an optical and acoustic alarm.

**The VLXE ... A-Ex meets all requirements regarding explosion protection and Class I of the European standard EN 13160 for leak detection systems - thus offering the highest level of safety and environmental protection.**

### Monitorable tanks/pipes:

- Single-walled tanks with a leak protection lining or jacketing
- Double-walled horizontal or vertical tanks
- Double bottoms of flat-bottom tanks
- Double-walled adequately pressure-resistant piping and fittings made of metal or plastic, factory- or site-fabricated

### Monitorable fluids:

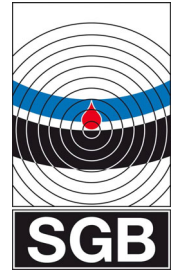
Liquids hazardous to water. It must be possible to classify any vapor-air mixtures that occur in explosion groups II A to II B3 and in temperature classes T 1 to T 4. Special designs are possible.

### Switching values:

Alarm underpressure in mbar	Operating underpressure in mbar
VLXE 34 A-Ex: -34	ca. -120
VLXE 330 A-Ex: -330	ca. -450

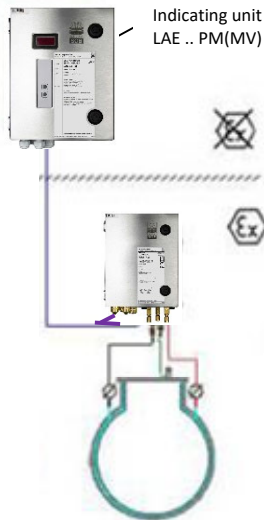
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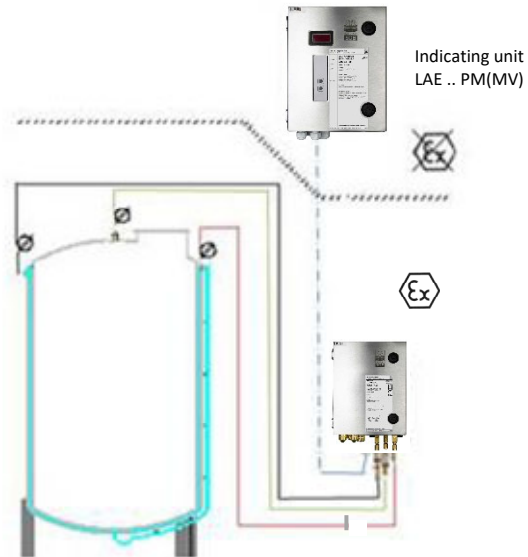


## Leak detector VLXE .. A-Ex

### Installation examples:



VLXE .. A-Ex with LAE .. PM(MV) at double-walled horizontal tank



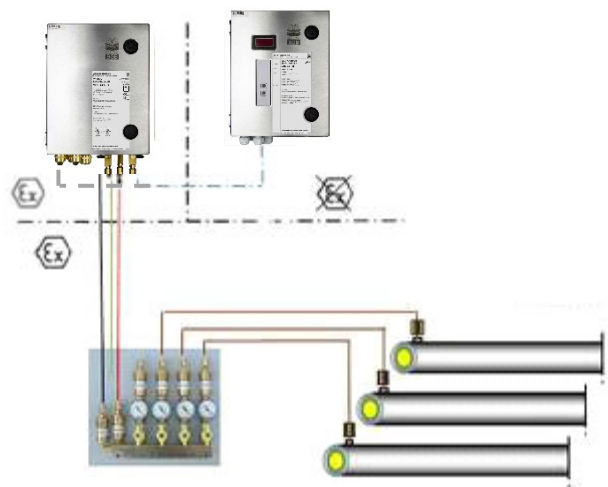
VLX .. A-Ex with LAE .. PM(MV) at double-walled vertical tank

## MORE APPLICATIONS POSSIBLE

The leak detector VLXE ... A-Ex is weatherproof and explosion-proof and can be mounted in Ex-Zone 1.

The versions VLXE ... A-Ex MV (with solenoid valve) or VLXE ... A-Ex MV with ZD (with solenoid valve and additional pressure switch) allow overpressures exceeding 5 bar in the interstitial space of up to 25 bar or up to 90 bar.

The associated weatherproof leak indicator LAE ... PM or LAE ... PMMV with integrated pressure display and leak detection function is mounted outside the hazardous area.



VLXE .. A-Ex for monitoring pipes