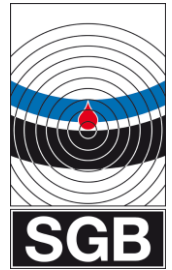


Leak detection technology

For a clean and protected environment



Vacuum leak detector VLX 350 SA-Ex

Partially explosion-proof to detect and indicate leaks in double-walled tanks and pipes



Vacuum leak detector VLX 350 SA-Ex consisting of leak indicating unit and leak detector

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

The vacuum leak detector VLX 350 SA-Ex is a static leak detector. The vacuum will be created by an external installation pump and is monitored by the leak detector. This system does not need an integrated pressure generator.

Suitable for all tanks with a suction line to the lowest point of the interstitial space.

→ A class I leak detection system in accordance to the European standard EN 13160.

Monitorable tanks:

- double-walled steel tanks (e.g. DIN 6618/2 or similar)
- double-walled bottoms of flat bottom tanks (e.g. DIN 4119 or similar)
- other tanks, however with a permeation tight inner wall and a suction line to the lowest point of the interstitial space
- with an inner tank pressure ≤ 25 bar

Monitorable pipes:

- suitable for double-walled pipes
- with max. feed pressure in the inner pipe of 25 bar

Liquids to be monitored:

Water polluting liquids like heating oil, kerosene, petrol, acids, lye, etc.

→ Vapour air mixtures of the liquids must be classified in gas group II A or II B or IIC and temperature code T 1 up to T 6

Switching values:

alarm ON	operational vacuum (target pressure)
375 ± 25 mbar / (5.44 ± 0.36 psi)	350 – max. 700 mbar / (5.08 – max. 10.15 psi)



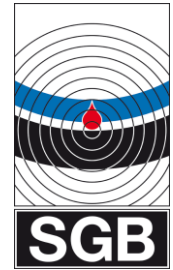
Installation kit measuring connection (vertical/horizontal)



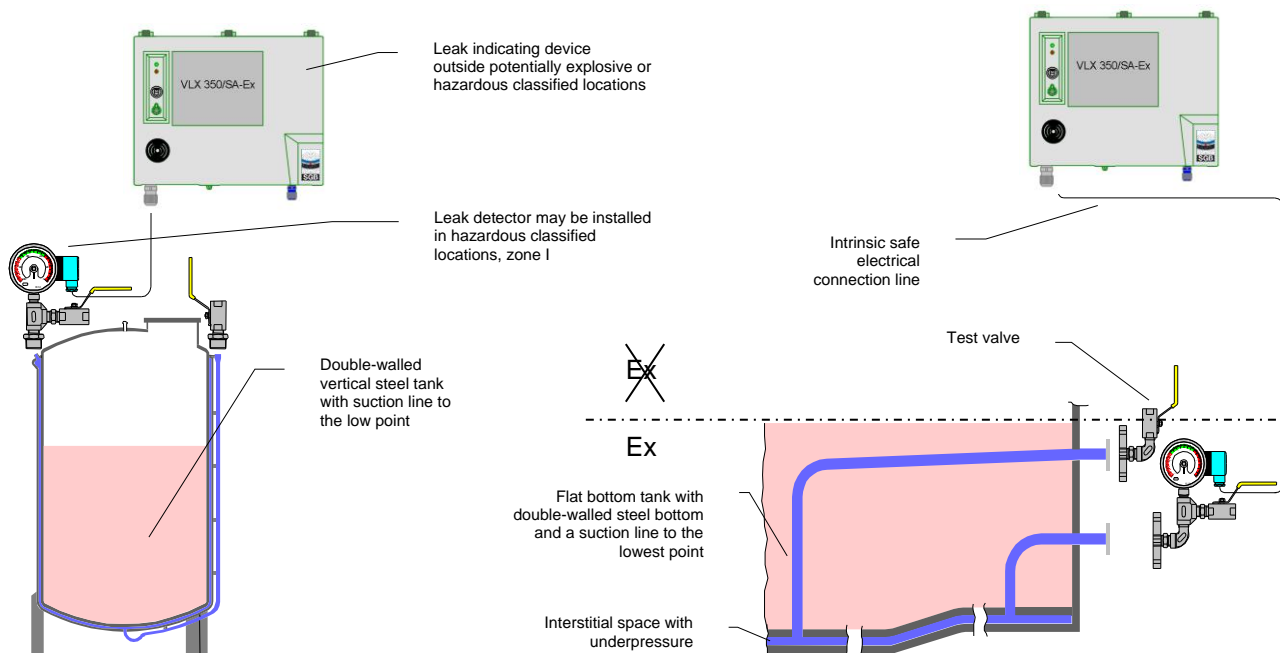
Installation kit test connection (vertical/horizontal)

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Monitoring principle:

With an external pump the interstitial space has to be evacuated until the operational vacuum (operational pressure) is reached.

If necessary, measures for explosion protection are to be considered (e.g. explosion protected pump).

In case of a leak, air, groundwater or product is sucked into the interstitial space. This reduces the existing underpressure in the interstitial space. When the alarm underpressure is reached an optical and audible alarm is triggered.

Provided that the interstitial space is tight and with a leak proof installation a trouble free operation can be assumed.

With the yearly function test the operational vacuum is built up again to the assigned value of 700 mbar.

Installation advice:

The indicating device of the leak detector shall not be installed in hazardous classified locations.

Outside closed and dry rooms, the indicating device has to be installed in a suitable protective box.

Useful fittings in the installation kit for the leak detector guarantee a quick and safe examination of the function.

When operating, installing and commissioning the leak detector VLX 350 SA-Ex, 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.