Leak detection technology

For a clean and protected environment

Overpressure leak detector DLG .. PM

DLG … PM in weatherproof design (P) and digital pressure indication (M)

Overpressure leak detector operating with inert gas (nitrogen) as leak detection media in the interstitial space. With weatherproof design (P) and digital pressure indication (M).

Especially designed for monitoring of:

- liquids, which react sensitive when in contact with air (e.g. cosmetics, foods)
- liquids, which are highly explosive

Also for tanks with a permeable inner tank wall to store liquids with a flash point below 55°C. A nitrogen based system like the DLG … PM avoids the risk of permanent explosive vapours in the interstice.

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

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

Approved for the use together with:

- double-walled tanks (e.g. DIN 6608, 6616)
- single-walled tanks with an approved leak detection lining (e.g. DIN 6608, 6616)
- double walled tanks with permeating inner wall

Liquids to be monitored:

- water polluting liquids
  e.g. Petrol, gasoline, lye, acid

Approvals:

Germany: Z – 65.23 - 409

Type	Alarm pressure	Operational pressure	Test pressure I-Space
330	> 330	< 410	500
450	> 450	< 510	600
590	> 590	< 700	850
750	> 750	< 850	1000
1100	> 1100	< 1450	1820
2300	> 2300	< 2770	2950
3000	> 3000	< 3400	4150

Pressure values in mbar

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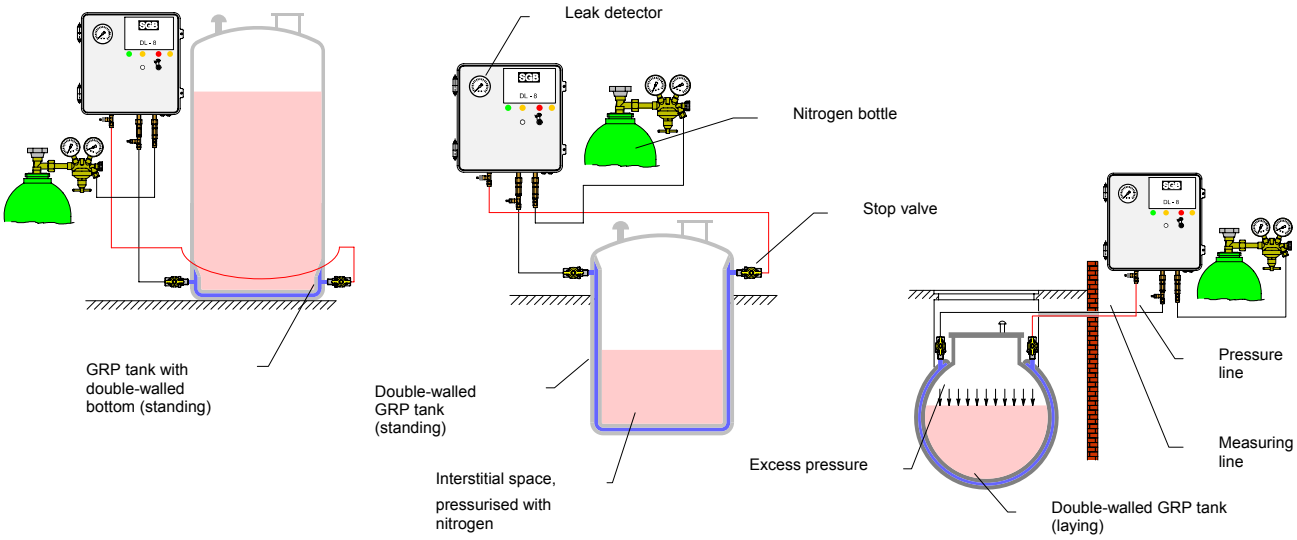

Monitoring principle:

Using the overpressure from a nitrogen bottle, the leak detector creates a fixed operating overpressure in the interstitial space.

Any minor unavoidable untightness is compensated by the system automatically.

In case of a leak, the compressed nitrogen will escape through the leak. This prevents product or groundwater entering the interstitial space.

If the volume flow of nitrogen escaping from the interstitial space is higher than the limited volume flow through the leak detector, the pressure will drop to the alarm pressure.

An optical and audible alarm will be released.

An overpressure valve avoids the occurrence of an inadmissible overpressure in the interstitial space.

Installation advice:

The leak detector shall not be installed in hazardous classified locations.

For installation outside closed and dry rooms the DLG..PM realises the required weather protection.

Coloured, flexible or rigid and pressure resistant tubes are to be used as a connection between leak detector and interstitial space.

Useful fittings on the leak detector guarantee a quick and safe examination of the functions.

Dry relay contacts for alarm transmitting are integrated.

When operating, installing and commissioning the leak detector DLG .. 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 ar not binding for the extend of delivery.

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