

LEAK DETECTION TECHNOLOGY

For a clean and protected environment



Overpressure leak detector DL 280



Leak detection system to detect and indicate leaks in double-walled tanks. The leak detector DL 280 can monitor several underground tanks or one aboveground tank.

Leaks in one of the walls will be detected and indicated by an optical and audible alarm before any stored product can enter the environment.

A class I leak detection system, with the highest environmental protection level in accordance to the European standard EN 13160.

Liquids:

- Water polluting liquids
- e.g.: petrol/gasoline, heating oil, diesel, lye, acid



Manifold for a connection up to 8 tanks

For the monitoring of:

- double-walled tanks with a test pressure of the interstitial space of min. 400 mbar (e.g. applicable tanks in accordance to the EN-standard). Maximum pressure of the stored liquid to the bottom of the tank: 230 mbar
- tanks with permeable inner wall only for liquids with flash point above 55°C.

| Model | Alarm pressure | Operating pressure | max. pressure to bottom of the tank | test pressure of the interstice of min. |
|--------|----------------|--------------------|-------------------------------------|---|
| DL 280 | > 280 mbar | < 320 mbar | 230 mbar | 400 mbar |

Sold by:

SGB GmbH
Hofstr. 10
57076 Siegen
Germany

Tel. + 49 271 48964-0
Fax + 49 271 48964-6
sgb@sgb.de
www.sgb.de

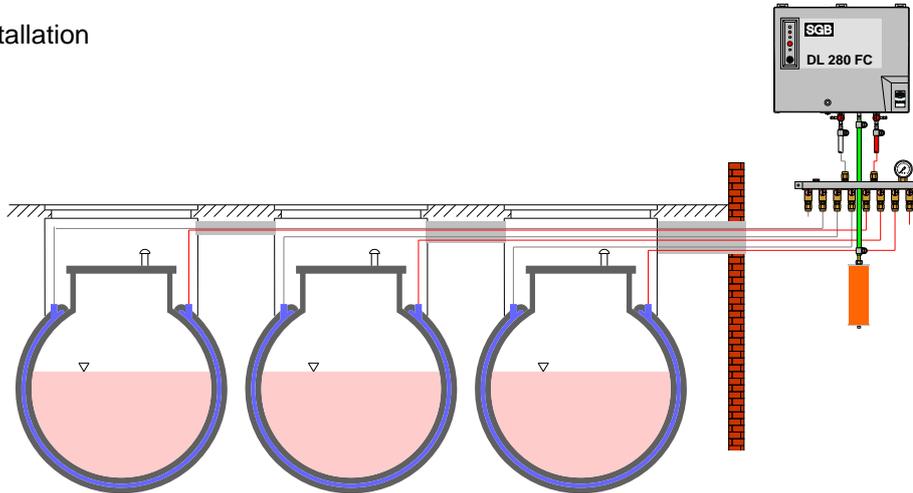
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Scheme of installation



Monitoring principle:

The pump in the leak detector creates an operational overpressure in the interstitial space. This operational pressure is higher than the pressure of the stored product/ground water to the low point of the interstice.

In case of a leak, the compressed air will escape through the leak. This prevents product or groundwater entering the interstitial space. Any minor unavoidable untightness is compensated by the system automatically.

If the volume flow of air escaping from the interstitial space is higher than the limited volume flow of the pressure pump, the pressure will drop to the alarm pressure. An optical and audible alarm will be released.

The compressed air in the interstitial space is dried by the dry filter mounted to the leak detector. Therefore a condensation of water in the interstitial space is prevented. An inadmissible overpressure in the interstitial space is prevented by a pressure relief valve.

Installation advice:

The leak detector shall not be installed in potentially explosive areas. For the use free air, a weather-proof version ("P") of the leak detector is available.

Coloured, flexible or rigid tubes are used as a connection between leak detector and interstitial space. If several tanks are monitored a manifold is used.

Useful devices for function tests within the leak detector guarantee a quick and safe examination of the functional reliability. Additional alarm signal units can be connected directly to the leak detector. Dry relay contacts for alarm transmitting can be used optionally.

When operating, installing and commissioning the leak detector DL 280, the conditions laid down in the approval for the leak detector, tank and/or lining shall be observed.

All works shall be carried out by a qualified person.