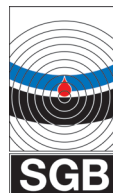


LEAK PREVENTION TECHNOLOGY

For a clean and protected environment



Pressure leak detectors for tanks DL 280–450



New: DL .. 8S
Combined monitoring
of tanks and manhole
chambers



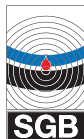
Variants • Equipment • Accessories

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PRESSURE LEAK DETECTORS DL FOR TANKS

04_ Function and equipment options

05_ **DL .. 8S - combined monitoring of tanks and chambers** **NEW**

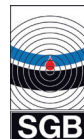
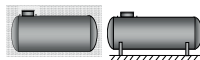
06_ Installation schemes and hints

07_ Pressure leak detectors DL 280, DL 290, DL 325, DL 330 and DL 450

ACCESSORIES

08_ Installation pumps, testing devices

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About SGB's leak detectors

Safety in leak monitoring of double-walled tanks and pipes

Leak detectors made by SGB offer the highest safety and reliability in environmental and water protection. They monitor double-walled tanks and double-walled pipes as well as single-walled containments with a leak protecting lining or a leak protecting jacket safely and permanently for leaks – 365/24/7. Due to the functional principle of the SGB leak detector working with pressure or vacuum, no stored or transported liquid can enter the environment or the groundwater!

- SGB is certified according to DIN EN ISO 9001 (since 1999)
- SGB's leak detectors conform the high requirements of class I of the European Standard
- SGB's leak detectors are individually as well as TÜV tested

Know-how and experience since 1962

More than 480.000 SGB leak detectors globally in use guarantee safety for man and environment in tank farms, refineries, chemical plants, gas stations, drilling rigs, data centers as well as domestic heating oil tanks and many more. Over 60 years of experience with leak detection technology make SGB leak detectors a recognized brand product – at home and abroad.

60
YEARS OF SGB
1962–2022

Pressure leak detectors DL

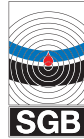
DL = **D**ruck-(=Pressure)-**L**eak detector with integrated pump

On the following pages we present you our pressure leak detectors DL for leak monitoring on containments/tanks – with their equipment options and accessories.

In addition to the listed pressure levels, we are happy to realize lower and higher pressures e.g. DL 50 or DL 3000. Just talk to us! Further information on our innovative products, services and specialist training can be found on sgb.de.

Contact

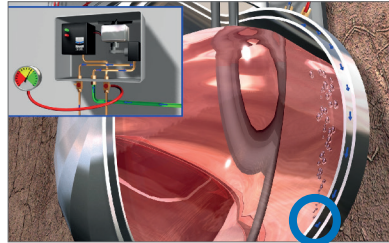
In case of any inquiries please do not hesitate to contact us. Call us on **+49 271 48964-0** or send an e-mail to sgb@sgb.de.



Pressure leak detectors DL

Monitoring principle “overpressure“

With the DL leak detectors an overpressure is built up in the interstitial space of the container. The operating pressure and the alarm pressure of the leak detector are higher than the pressure of the stored goods or the groundwater against the container walls. In case of a leak in one of the two walls, air escapes from the interstitial space. An escape of the stored material into the environment is thus reliably prevented.



- > Minor leaks in the system are automatically compensated by the integrated pump.
- > Relevant leaks lead to a pressure drop. Upon reaching the alarm pressure an optical and audible alarm will be triggered.

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

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Optional equipment

- > FC (filter control) (only DL)
- > M (manometer)
- > P (protected)
- > Si (service indication)

NEW

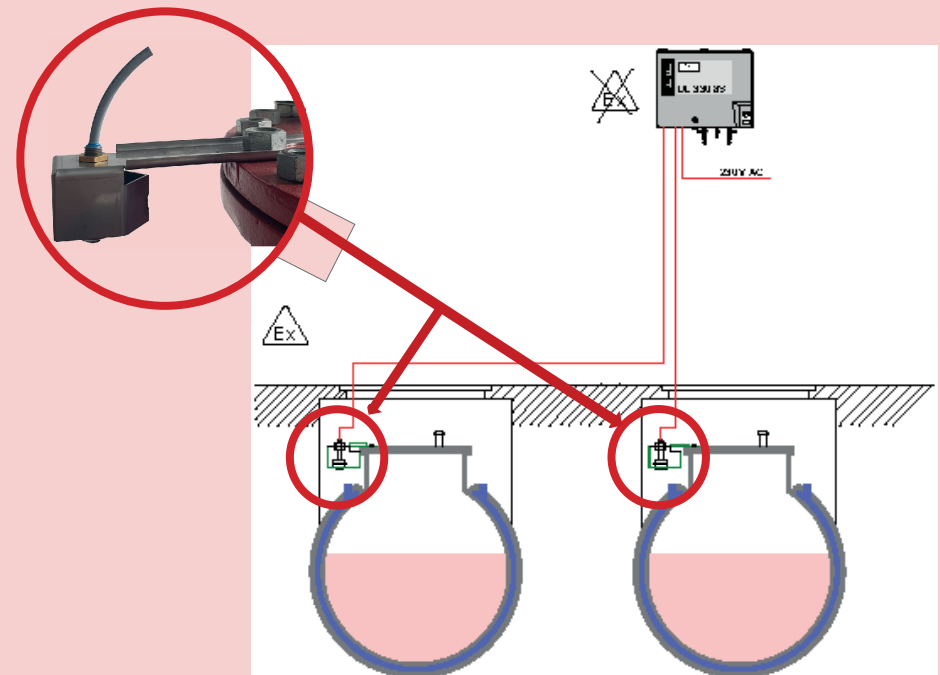
8S: The combined monitoring for leak of containments and man-hole chambers, tanks sumps, etc. via leakage sensors

Now available: DL .. 8S
the combined leak monitoring of tanks
and sumps with only 1 device

DL .. 8S (S = Leakage sensor) combines the approved leak monitoring of tanks with the simultaneous monitoring of manhole chambers, pump sumps, etc. For this purpose, up to 8 sensors can be connected to the leak detector – one to each monitored dome shaft, pump sump, manhole chamber.

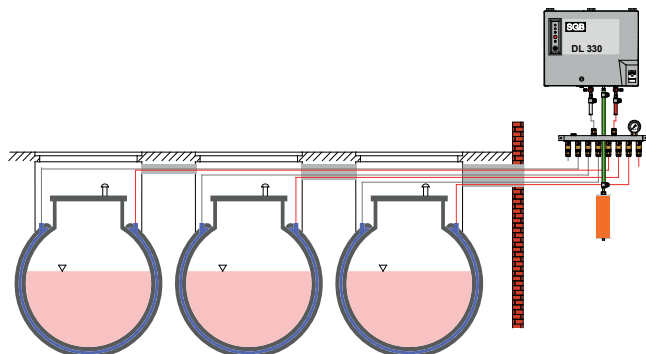
- Choose between 1, 2, 3, 4 ... or up to 8 leakage sensors
- Available with ex-protected sensors for the installation in ex-zones
- for the simultaneous leak monitoring of manhole chambers, pump sumps, dome shafts, etc.

Scheme with 2 sensors:

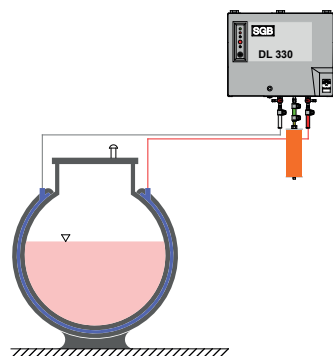


Installation scheme DL ..

One **DL 280, 290, 325, 330, or DL 450** is able to monitor several underground tanks via manifolds:



In addition the **DL 290, DL 330** as well as the **DL 450** are able to monitor one above-ground tank:



Installation advices



> The DL is installed outside of potentially explosive atmospheres areas.

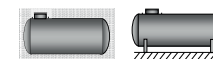


> If the leak detector is installed outside of a closed and dry room we recommend to use a protected version or a suitable protection box.



> For the pneumatic connection lines use hose or pipe with a clearance of 6 mm at least.

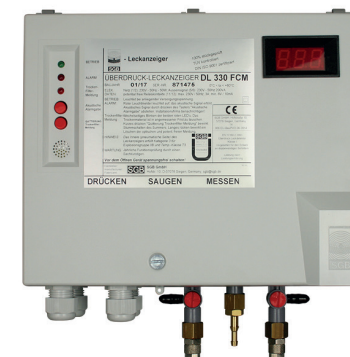
DL 280 / 290 / 325 / 330 / 450



Depending on the tank specifications (size, volume, diameter, pressure resistance, size of the interstitial space, ...) either the DL 280, DL 290, DL 325, DL 330, or DL 450 will be used. The numbers indicate the respective alarm pressure.

Monitorable double-walled tanks:

- Diameter up to 2,5 m and test pressure in the interstitial space of min. 400 mbar (e.g. acc. EN 12285-1) ➤ **DL 280**
- Test pressure in the interstitial space of min. 450 mbar ➤ **DL 290**
- Diameter up to 3,0 m and test pressure in the interstitial space of min. 400 mbar (e.g. acc. EN 12285-1) ➤ **DL 325**
- Test pressure in the interstitial space of min. 500 mbar, e.g. acc. DIN 6608/2, 6616/2 ➤ **DL 330**
- Test pressure in the interstitial space of min. 600 mbar, e.g. acc. DIN 6608/2, 6616/2, 6623, 6624 ➤ **DL 450**



DL 330



Drying filter TF 200

Monitorable liquids:

Water polluting liquids e.g. petrol, gasoline, heating oil, diesel, ley, acid

Switching values DL (in mbar):

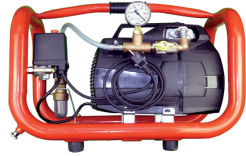
Type	Alarm pressure >	Operating pressure <	Max. pressure to bottom of tank	Min. test pressure of interstitial space
280	280	320	250	400
290	290	350	260	450
325	325	360	300	400
330	330	410	300	500
450	450	510	420	600

Installation accessories

Installation pumps



Art.-No.	Description	Euro	Qty
200820	Vacuum Pump VP218, 240 V, 1,5KW incl. Liquid Stop, Condensate Trap, HM		1 Stck
With extra high vacuum volume flow very useful for producing vacuum on large interstitial spaces as on large tanks, double bottoms of flat bottom tanks or with flexible linings. Not explosion protected. Weight 17 kg			



Art.-No.	Description	Euro	Qty
200840	Pressure-vacuum pump ÜVP218, 240V, 1,5KW, liquid Stop, Conden. trap, valves, manometer		1 pce
Overpressure and vacuum pump with high performance. Useful accessories as valves, manometers, liquid stop valves realises comfortable operation. Not explosion protected. Max. underpressure 850 mbar, max overpressure 8 bar, weight 18 kg			



Art.-No.	Description	Euro	Qty
200860	Ex-Vacuum-Pump N026 St.9E EX, 230 V Category 2 in-outside, 1m³/h, G1/4"		1 pce
Explosion-proof vacuum pump for evacuating interstitial spaces in which ex-vapours may occur			

Testing devices



Art.-No.	Description	Euro	Qty
115360	Digital Measuring Device DM 12-2, -1... .. +2 bar, incl. case		1 pce
Field of use: The sensor is suitable for non-corrosive and non-ionizing gases and liquids (DO NOT use for water-air or hydrofob filters!).			



Art.-No.	Description	Euro	Qty
115381	Digital Measuring Device DM 115 Ex, expl protect., -1..+1,5 bar, incl tubing + case		1 pce
Digital overpressure/underpressure measuring device, ex-proof			

Installation accessories

Testing devices



Art.-No.	Description	Euro	Qty
115371	Pressure Measuring Device CPH 6200 incl. suitcase, without sensor		1 pce
Digital hand-held pressure indicator with measuring ranges from 0...25 bar to -1000...0 mbar. The measuring range of the connected pressure sensor will be detected automatically. Incl. adapter for leak detector.			



Art.-No.	Description	Euro	Qty
115373	Pressure sensor for CPH 6200 -1...0 bar, process connection 1/2"		1 pce
115375	Pressure sensor for CPH 6200 0...25 bar, process connection 1/2"		1 pce



Art.-No.	Description	Euro	Qty
115376	Manual hand pump CPP30, incl. connecting cable 0,5m, G1/4" female thread		1 pce
For test pressure generation up to max. 35 bar. Vacuum generation down to max. -950 mbar is also possible through the change-over switch. Incl. adapter for leak detector.			



Art.-No.	Description	Euro	Qty
115392	Testing Device, max Pressure 1,0 bar Over- and Underpressure Leak Detectors		1 pce
For a simple and quick function test of leak detectors, (overpressure and vacuum) with a pressure of max. 1000 mbar. With a port to connect a gauge. With ventilation device for controlled pressure / vacuum drop. Volume 1 liter. Height 380 mm.			



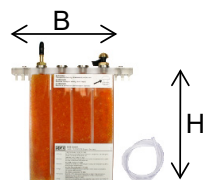
Art.-No.	Description	Euro	Qty
115395	Testing Device-Press. Resist. up to 4Bar for Overpressure Leak Detector		1 pce
For a simple and quick function test of leak detectors, (overpressure and vacuum) with a pressure of max. 4 bar. With a port to connect a gauge. With ventilation device for controlled pressure / vacuum drop. Volume 0,75 liter. Height 380 mm.			

Installation accessoires

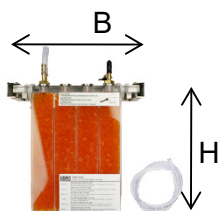
Dry filter



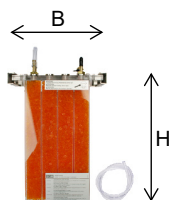
Art.-No.	Description	Euro	Qty
340310	Dry Filter TF 180 incl. Drying Agent and Holder		1 pce
Bore holes: 4.5 mm Diameter: 54 mm Height: 120 mm			



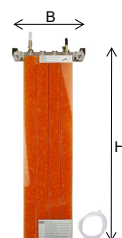
Art.-No.	Description	Euro	Qty
340340	Dry Filter TF 200 - Hose Connection incl. Drying Agent		1 pce
Replaces the previous Dry Filter TF 1 Bore holes: 4.5 mm Height: 165 mm Width: 180 mm			



Art.-No.	Description	Euro	Qty
340342	Dry Filter TF 400 - Hose Connection incl. Drying Agent and Holder		1 pce
Bore holes: 6.5 mm Height: 180 mm Width: 192 mm			



Art.-No.	Description	Euro	Qty
340343	Dry Filter TF 600 - Hose Connection incl. Drying Agent and Holder		1 pce
Replaces the previous Dry Filter TF 2 Bore holes: 6.5 mm Height: 270 mm Width: 192 mm			



Art.-No.	Description	Euro	Qty
340345	Dry Filter TF1200 - Hose Connection incl. Drying Agent and Holder		1 pce
Replaces the previous Dry Filter TF 6 Bore holes: 6.5 mm Height: 520 mm Width: 192 mm			

Installation accessories

Support bracket



Art.-No.	Description	Euro	Qty
340189	Support bracket for dry filter		1 pce

Drying agent



Art.-No.	Description	Euro	Qty
Drying agent re-filling sets			
340311	Dry Agent for TF 180		1 pce
340215	Dry Agent for TF 200		1 pce
340214	Dry Agent for TF 300		1 pce
340216	Dry Agent for TF 400		1 pce
340218	Dry Agent for TF 600		1 pce
340272	Dry Agent, 1 Aluminimbottle 1250ml (930 Gramm)		1 pce
340273	Dry Agent, 1 Aluminimbottle 6250ml (4750 Gramm)		1 pce

Professional training LEAK PREVENTION TECHNOLOGY

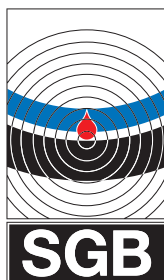
The choice, the construction and commissioning of leak detectors is not always easy due to the wide variety of liquids to be stored, containers, different types of leak detectors, and their differentiated use. There are pressure leak detectors, vacuum leak detectors, several versions for indoor and outdoor use as well as versions for the use in ex-zones ... Our professional seminars (either online or face-to-face) help here – with in-depth background information and many practical demonstrations.

More information and booking on:

sgb.de/en/seminar



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SGB GmbH
Hofstr. 10
57076 Siegen
Germany

+49 271 48964-0
sgb@sgb.de
shop.sgb.de/en

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