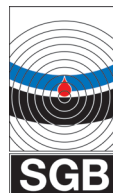


# LEAK PREVENTION TECHNOLOGY

For a clean and protected environment



## Pressure leak detectors for tanks DL 280–450



**NEW: DL .. 8S**

Combined monitoring of  
tanks and manhole  
chambers



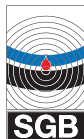
Variants • Equipment • Accessories

SCAN ME



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## CONTENT



### 03\_ About SGB's leak detectors

#### 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

##### 08\_ Overview DL 280–450 and articles for assembly,

connection line: PA hose

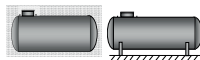
##### 10\_ Overview DL 230–450 and articles for assembly,

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##### 12\_ Installation pumps, testing devices

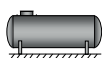
##### 14\_ Dry filters, drying agent



#### Legend

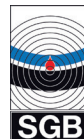


suitable for under-  
ground tanks



suitable for above-  
ground tanks

SGB's headquarter in Siegen,  
Germany



## 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 430.000 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 55 years of experience with leak detection technology make SGB leak detectors a recognized brand product – at home and abroad.

### Pressure leak detectors DL

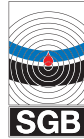
**DL** = Druck-(=Pressure)-Leak detector with integrated pump

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 **www.sgb.de**.

### Contact

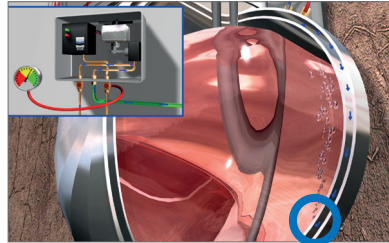
In case of any inquiries please do not hesitate to contact us. Phone us on **+49 0271 48964-0** or send an e-mail to **sgb@sgb.de**.



## 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**

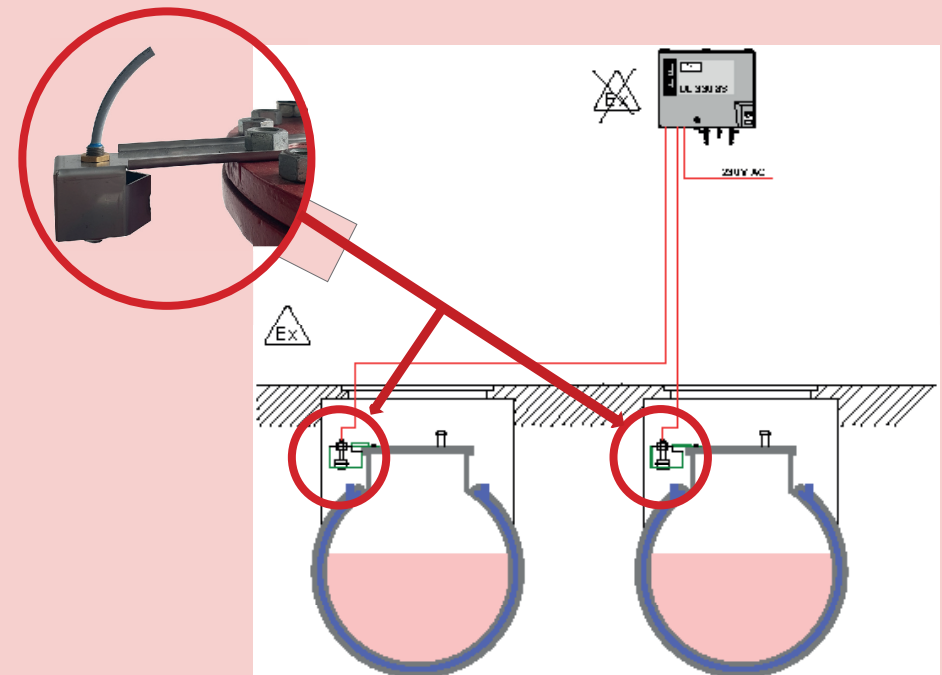
**8S: The combined monitoring for leak of containments and man-hole chambers, tanks sumps, etc. via leakage sensors**

**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.

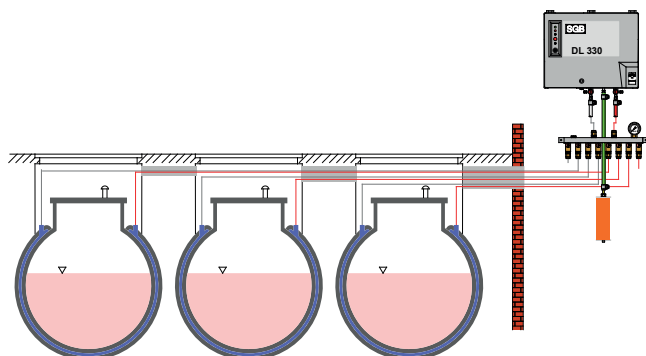
- Choose between 1, 2, 3, 4 ... or up to 8 leakage sensors
- Available with ex-protected sensors for the installation in ex-zones
- for the simultaneous leak monitoring of manhole chambers, pump sumps, dome shafts, etc.

Scheme with 2 sensors:

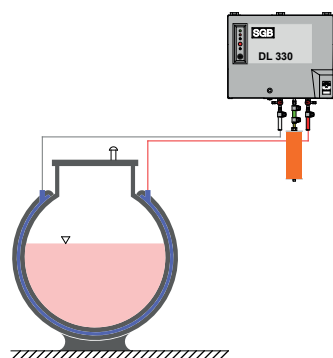


## Installation scheme DL ..

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.

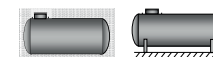


> If the leak detector is installed outside of a closed and dry room we recommend to use a protected version or a suitable protection box.



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

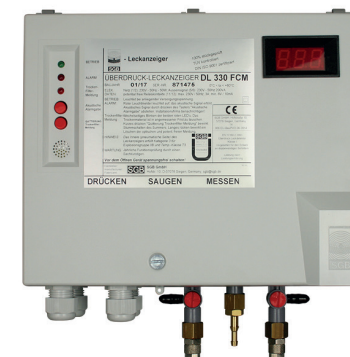
## DL 280 / 290 / 325 / 330 / 450



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 |
|------------|------------------|----------------------|---------------------------------|--|
| <b>280</b> | 280              | 320                  | 250                             | 400                                      |
| <b>290</b> | 290              | 350                  | 260                             | 450                                      |
| <b>325</b> | 325              | 360                  | 300                             | 400                                      |
| <b>330</b> | 330              | 410                  | 300                             | 500                                      |
| <b>450</b> | 450              | 510                  | 420                             | 600                                      |

**Article report leak detector DL ..  
with PA-hose as connection line**

**Leak detector DL 280** Art.-No. Description Euro Qty



|           |   |  |       |
|-----------|---|--|-------|
| 060028007 | Leak Detector DL 280, TF180, 230VAC, pl-box, QU8/6    |  | 1 pce |
| 060028U07 | Leak Detector DL 280 FC, TF200, 230VAC, pl-box, QU8/6 |  | 1 pce |

**Leak detector DL 290** Art.-No. Description Euro Qty



|           |   |  |       |
|-----------|---|--|-------|
| 060029-07 | Leak Detector DL 290, 230VAC, pl-box, QU8/6                   |  | 1 pce |
| 060029107 | Leak Detector DL 290, TF200, 230VAC, pl-box, QU8/6            |  | 1 pce |
| 060029U07 | Leak Detector DL 290 FC, TF200, 230VAC, pl-box, QU8/6         |  | 1 pce |
| 104852    | Additional price service indication, version Si (1-63 months) |  | 1 pce |

**Leak detector DL 325** Art.-No. Description Euro Qty



|           |   |  |       |
|-----------|---|--|-------|
| 060032-07 | Leak Detector DL 325, 230VAC, pl-box, QU8/6           |  | 1 pce |
| 060032007 | Leak Detector DL 325, TF180, 230VAC, pl-box, QU8/6    |  | 1 pce |
| 060032U07 | Leak Detector DL 325 FC, TF200, 230VAC, pl-box, QU8/6 |  | 1 pce |

**Leak detector DL 330** Art.-No. Description Euro Qty



|           |   |  |       |
|-----------|---|--|-------|
| 060033007 | Leak Detector DL 330, TF180, 230VAC, pl-box, QU8/6      |  | 1 pce |
| 060033U07 | Leak Detector DL 330 FC, TF200, 230VAC, pl-box, QU8/6   |  | 1 pce |
| 060033N07 | Leak Detector DL 330 M, TF180, 230VAC, pl-box, QU8/6    |  | 1 pce |
| 060033P07 | Leak Detector DL 330 FCM, 230VAC, pl-box, QU8/6         |  | 1 pce |
| 061033107 | Leak Detector DL 330 P, TF200, 230VAC, st-box, QU8/6    |  | 1 pce |
| 061033Q07 | Leak Detector DL 330 PFCM, TF200, 230VAC, st-box, QU8/6 |  | 1 pce |

**Article report leak detector DL .. and articles for assembly  
with PA-hose as connection line**

**Leak detector DL 450** Art.-No. Description Euro Qty



|           |   |  |       |
|-----------|---|--|-------|
| 060045-04 | Leak Detector DL 450, 230VAC, pl-box, CF8/6             |  | 1 pce |
| 060045M04 | Leak Detector DL 450 M, 230VAC, pl-box, CF8/6           |  | 1 pce |
| 061045104 | Leak Detector DL 450 P, TF200, 230VAC, st-box, CF8/6    |  | 1 pce |
| 061045N04 | Leak Detector DL 450 PM, TF200, 230VAC, st-box, CF8/6   |  | 1 pce |
| 061045Q04 | Leak Detector DL 450 PFCM, TF200, 230VAC, st-box, CF8/6 |  | 1 pce |

**PA-hose** Art.-No. Description Euro Qty



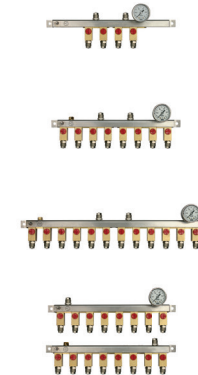
|        |  |  |        |
|--------|--|--|--------|
| 260517 | PA-hose, PN 6, red, 8/6x1mm, 100m roll       |  | 1 roll |
| 260519 | PA-hose, PN 6, off-white, 8/6x1mm, 100m roll |  | 1 roll |

**Installation kits** Art.-No. Description Euro Qty



|           |  |  |       |
|-----------|--|--|-------|
| 190404-07 | Inst. kit DL..., R1/2"m - QU8/6, for PA-hose 8/6x1mm |  | 1 pce |
| 190405-07 | Inst. kit DL..., R3/4"m - QU8/6, for PA-hose 8/6x1mm |  | 1 pce |
| 190406-07 | Inst. kit DL..., R1"m - QU8/6, for PA-hose 8/6x1mm   |  | 1 pce |

**Manifolds for combining  
several underground tanks**



| Art.-No.  | Description                         | Euro | Qty   |
|-----------|-------------------------------------|------|-------|
| 196021-07 | Manifold 2 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196031-07 | Manifold 3 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196041-07 | Manifold 4 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196051-07 | Manifold 5 tanks, gauge 1bar, QU8/6 |      |       |
| 196061-07 | Manifold 6 tanks, gauge 1bar, QU8/6 |      |       |
| 196071-07 | Manifold 7 tanks, gauge 1bar, QU8/6 |      |       |
| 196081-07 | Manifold 8 tanks, gauge 1bar, QU8/6 |      |       |

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## Article report leak detector DL .. with PVC-hose as connection line

Connection copper pipe on request

### Leak detector DL 280



| Art.-No.  | Description   | Euro | Qty   |
|-----------|---|------|-------|
| 060028000 | Leak Detector DL 280, TF180, 230VAC, pl-box, hose with 4 or 6 mm i.d. |      | 1 pce |

### Leak detector DL 290



| Art.-No.  | Description  | Euro | Qty   |
|-----------|--|------|-------|
| 060029-00 | Leak Detector DL 290, 230VAC, pl-box, H4+H6        |      | 1 pce |
| 060029100 | Leak Detector DL 290, TF200, 230VAC, pl-box, H4+H6 |      | 1 pce |

### Leak detector DL 325



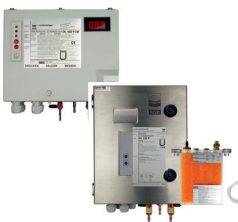
| Art.-No.  | Description   | Euro | Qty   |
|-----------|---|------|-------|
| 060032-00 | Leak Detector DL 325, 230VAC, pl-box, hose with 4 or 6 mm i.d.        |      | 1 pce |
| 060032000 | Leak Detector DL 325, TF180, 230VAC, pl-box, hose with 4 or 6 mm i.d. |      | 1 pce |

### Leak detector DL 330



| Art.-No.  | Description   | Euro | Qty   |
|-----------|---|------|-------|
| 060033000 | Leak Detector DL 330, TF180, 230VAC, pl-box, H4+H6                      |      | 1 pce |
| 103600    | DL 330 complete set, TF180, inst. kit, 20m PVC-hose each color 10/6x2mm |      | 1 pce |
| 104020-00 | Leak detector DL 330 P, 230VAC, ss-box, H4+H6                           |      | 1 pce |

### Leak detector DL 450



| Art.-No.  | Description   | Euro | Qty   |
|-----------|---|------|-------|
| 060045-00 | Leak Detector DL 450, 230VAC, pl-box, H4+H6                             |      | 1 pce |
| 060045P00 | Leak Detector DL 450 FCM, 230VAC, pl-box, H4+H6                         |      | 1 pce |
| 061045-00 | Leak Detector DL 450 P, 230VAC, st-box, hose with 4 or 6 mm i.d.        |      | 1 pce |
| 061045100 | Leak Detector DL 450 P, TF200, 230VAC, st-box, hose with 4 or 6 mm i.d. |      | 1 pce |

## Articles for assembly with PVC-hose as connection line

### PVC-hose



| Art.-No. | Description                          | Euro | Qty    |
|----------|--------------------------------------|------|--------|
| 260111   | PVC-hose, red, 10/6x2mm, 100m roll   |      | 1 roll |
| 260115   | PVC-hose, clear, 10/6x2mm, 100m roll |      | 1 roll |

### Installation kits



| Art.-No.  | Description  | Euro | Qty   |
|-----------|--|------|-------|
| 190404-00 | Inst. kit DL..., R1/2"m - S6, for PVC-hose 10/6x2mm              |      | 1 pce |
| 190405-00 | Inst. kit DL..., R3/4"m - S6, for PVC-hose 10/6x2mm              |      | 1 pce |
| 190406-00 | Inst. kit DL..., R1"m - S4+S6, for PVC-hose with 4 or 6 mm i. d. |      | 1 pce |

### Verteilerleisten zum Zusammenschluss mehrerer unterirdischer Behälter



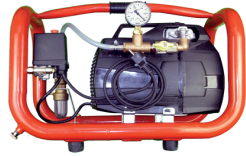
| Art.-No.  | Description                         | Euro | Qty   |
|-----------|-------------------------------------|------|-------|
| 196021-00 | Manifold 2 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196031-00 | Manifold 3 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196041-00 | Manifold 4 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196051-00 | Manifold 5 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196061-00 | Manifold 6 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196071-00 | Manifold 7 tanks, gauge 1bar, QU8/6 |      | 1 pce |
| 196081-00 | Manifold 8 tanks, gauge 1bar, QU8/6 |      | 1 pce |

## 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. |   |      |       |

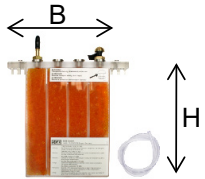
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## Installation accessoires

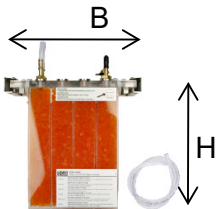
### Dry filter



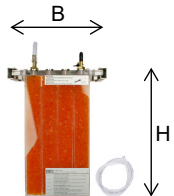
| Art.-No.  | Description  | Euro | Qty   |
|---|--|------|-------|
| 340310  | Dry Filter TF 180<br>incl. Drying Agent and Holder |      | 1 pce |
| Bore holes: 4.5 mm<br>Diameter: 54 mm<br>Height: 120 mm |  |      |       |



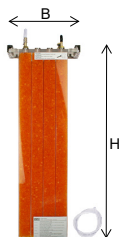
| Art.-No.   | Description   | Euro | Qty   |
|--|---|------|-------|
| 340340   | Dry Filter TF 200 - Hose Connection<br>incl. Drying Agent |      | 1 pce |
| Replaces the previous Dry Filter TF 1<br>Bore holes: 4.5 mm<br>Height: 165 mm<br>Width: 180 mm |   |      |       |



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



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



| Art.-No.   | Description  | Euro | Qty   |
|--|--|------|-------|
| 340345   | Dry Filter TF1200 - Hose Connection<br>incl. Drying Agent and Holder |      | 1 pce |
| Replaces the previous Dry Filter TF 6<br>Bore holes: 6.5 mm<br>Height: 520 mm<br>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   |
|-------------------------------------|--|------|-------|
| <b>Drying agent re-filling sets</b> |  |      |       |
| 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,<br>1 Aluminimbottle 1250ml (930 Gramm)  |      | 1 pce |
| 340273                              | Dry Agent,<br>1 Aluminimbottle 6250ml (4750 Gramm) |      | 1 pce |

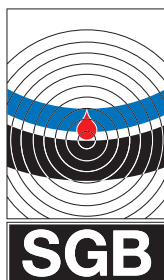
## Professional training LEAK PREVENTION TECHNOLOGY

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 version for the use in ex-zones ... Our professional seminar helps here – with in-depth background information and many practical demonstrations.

More information and booking on:  
[www.sgb.de](http://www.sgb.de)







Contact and Imprint

**SGB GmbH**  
Hofstr. 10  
57076 Siegen  
Germany

T +49 271 48964-0  
E [sgb@sgb.de](mailto:sgb@sgb.de)  
I [www.sgb.de](http://www.sgb.de)

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