

LEAK PREVENTION TECHNOLOGY

For a clean and protected environment

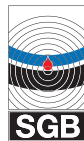


Pressure leak detectors for pipes

DLR-G
DLR-GS
DLR-P
DLR-P .. CV



- Device variants
- Equipments
- Accessories



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DLR – PRESSURE LEAK DETECTORS FOR PIPES



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Legend



suitable for under-
ground tanks



suitable for above-
ground tanks



suitable for pipes

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 400.000 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 DLR ..

DLR = Druck- (= Pressure) -Leak detector for Rohrleitungen (= pipes)

On the following pages we present you our pressure leak detectors DLR for leak monitoring on pipes – with their equipment options, accessories and services like SGB's remote monitoring LOD. Further information on our innovative products, services and specialist training can be found on **www.sgb.de**.

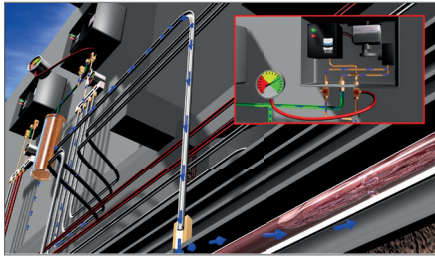
Contact

In case of any inquiries please do not hesitate to contact us. Phone us on **+49 271 48964-0** or send an e-mail to **sgb@sgb.de**. We are happy to be of any help!

Pressure leak detectors for pipes – DLR

Monitoring principle „overpressure“

With the DLR leak detectors an overpressure is built up in the interstitial space of the pipe. Therefore air or gas is used. The operating pressure and the alarm pressure of the leak detector are higher than the pressure of the transported good or the groundwater against the pipe's walls. In case of a leak in one of the two walls, air/gas escapes from the interstitial space. An escape of the transported material into the environment is thus reliably prevented!



> Leak detectors with refilling function like DLR-G or DLR-P compensate minor leaks in the system.

> Relevant leaks lead to a pressure drop. When the alarm pressure is reached, the visual and/or optical alarm is triggered.

Naming of the leak detectors

- DLR-G .. = **D**ruck-**L**eckanzeiger **R**ohrleitung **G**as. This is a pressure leak detector for pipes working with gas. A pressure cylinder (nitrogen) is used for pressure built-up.
- DLR-GS .. = **D**ruck-**L**eckanzeiger **R**ohrleitung **G**as **s**tatisch. This is a pressure leak detector for pipes working with gas, static. For the pressure built-up a pressure generator must be brought to the building site. The leak detector has neither a pump nor an automatic refilling device.
- DLR-P .. = **D**ruck-**L**eckanzeiger **R**ohrleitung **P**umpe. This is a pressure leak detector for pipes with an integrated pump which is used for building up the pressure.
- DLR-P .. **CV** = **D**ruck-**L**eckanzeiger **R**ohrleitung **P**umpe und **R**ückschlagventil (**C**heck **V**alve). This is a pressure leak detector for pipes equipped with a pump and a check valve.
- .. = The ellipsis dots or the numerical value stand for the alarm pressure of the leak detector in bar.

Optional equipment

M (= Manometer/Pressure gauge)

The leak detector is equipped with a digital pressure display in the cover on the housing.



P (= Protected)

Depending on the intended use (transported fluid, requirements of the systems) there are two kinds of weather-proof housings:

- painted steel sheet
- stainless steel



Si (= Service indication)

When commissioning the leak detector, the time for the prescribed functional test can be freely selected within the specified maintenance interval.

There are time intervals from 1 up to 63 months. The service indicator (yellow LED) visually indicates the upcoming function test for the leak detector.





Leak detector operating with inert gas (nitrogen) for the leak monitoring of double-walled pipes.

The leak detector:

The leak detector monitors permanently the interstitial space filled with compressed gas. The pressure in the interstitial space is displayed digitally in all versions.

! Technical standard:

- potential-free relay contacts for the alarm notice as changeover contact
- flexible power supply with 100–240 VAC, 50/60 Hz, alternative 24 VDC

Operating modes:

- C („Continuous“): for aboveground and underground double-walled pipes
- I („Intervall“): only for underground or inside a building laid double-walled pipes

+ Optional equipment:

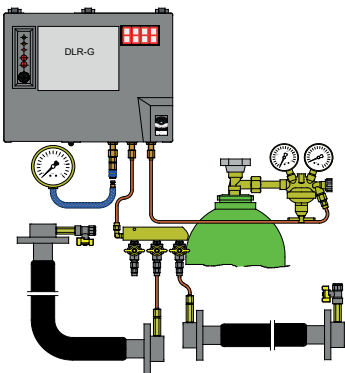
- Si (Service indication): variably adjustable, time intervals from 1 to 63 months

Conformity:

EN 13160 class I



DLR-G with digital pressure display (M)



Installation scheme DLR-G

DLR-G ... Type/alarm pressure	1	2	3	4	5	6	7	8	9
Operating pressure Inner pipe	pressu- reless	< 1	< 2	< 3	< 4	< 5	< 6	< 7	< 8
Set pressure	< 2	< 3	< 4	< 5	< 6	< 7	< 8	< 9	< 10
Test pressure interstice	> 3,4	> 4,5	> 5,6	> 6,7	> 7,8	> 8,9	> 10,0	> 11,1	> 12,2

DLR-G ... Type/alarm pressure	10	11	12	13	14	15	16	17	18
Operating pressure Inner pipe	< 9	< 10	< 11	< 12	< 13	< 14	< 15	< 16	< 17
Set pressure	< 12	< 13	< 14	< 15	< 16	< 17	< 18	< 19	< 20
Test pressure interstice	> 15,4	> 16,5	> 17,6	> 18,7	> 19,8	> 20,9	> 22	> 23,1	> 24,2

Pressure values in bar

Leak detector



Art.-No. Description

Euro

Qty

073030M04	Leak Detector DLR-G 3 M, 100-240VAC, pl-box, CF8/6		1 pce
074030M04	Leak Detector DLR-G 3 PM, 100-240VAC, ss-box, CF 8/6		
available in pressure steps from 1 bar to 20 bar (at same price)			

Pressure regulator



Art.-No. Description

Euro

Qty

342516-03	Pressure Regulator, 2-stage, 10bar,CF6/4 Inlet 200bar, Deliv. 10bar, W24,32x1/14"		1 pce
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Flexible hose



Art.-No. Description

Euro

Qty

260721	SS-Flex-hose, PN80, shaft 80mm, 6mm i.d., length 1.2m		1 pce
Connection pipe between pressure regulator and leak detector. Flexible, metallic and pressure resistant.			

Manifolds



Art.-No. Description

Euro

Qty

196230	Manifold 2 pipes, shut-off valves, gauge till 4bar, CF6/4		1 pce
196330	Manifold 3 pipes, shut-off valves, gauge till 4bar, CF6/4		1 pce
196430	Manifold 4 pipes, shut-off valves, gauge till 4bar, CF6/4		1 pce
196530	Manifold 5 pipes, shut-off valves, gauge till 4bar, CF6/4		1 pce
196630	Manifold 6 pipes, shut-off valves, gauge till 4bar, CF6/4		1 pce
196730	Manifold 7 pipes, shut-off valves, gauge till 4bar, CF6/4		1 pce
196830	Manifold 8 pipes, shut-off valves, gauge till 4bar, CF6/4		1 pce

Article report DLR-G

Installation kit



Art-No.	Description	Euro	Qty
190721	Inst. kit pipe, 1/4"m - CF6/4, for CU-pipe 6/4x1mm		1 pce

Protecting box



220696	Aluminium cabinet with plexiglass window 800x1800x400mm, roof, mounting rails		1 pce
Cupboard made from aluminium: width 800, height 1800, depth 350 inclusive roof and mounting rails, door with window from plexiglass 400 x 400 mm (leak detector, heating device, inert gas bottle and pressure reducing device not included), ca. 6 weeks delivery time			

Heating



332230	Heater 250 Watt with radiator+Thermostat for Protective Box KS 1467 and larger		1 pce
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CU-Rohr



Art-No.	Description	Euro	Qty
421001	Copper pipe, 6/4 x 1mm, soft, 50-m-ring		m



Static pressure leak detector working with nitrogen for monitoring a manually applied overpressure. When monitoring liquids with a flash-point > 55 °C, air can be used instead of nitrogen. With pre-alarm function.

! Technical standard:

- potential-free relay contacts for the alarm notice as changeover contact
- flexible power supply with 100–240 VAC, 50/60 Hz, alternative 24 VDC
- **now relay contact for „refilling required“ (N) as standard**

NEW

+ Optional equipment:

- **M:** digital pressure display
- **Si** (service indication): variably adjustable, time intervals from 1 to 63 months

Monitorable pipes:

- suitable double-walled pipes
- for up to 15 bar operating pressure in the inner pipe

Monitorable liquids:

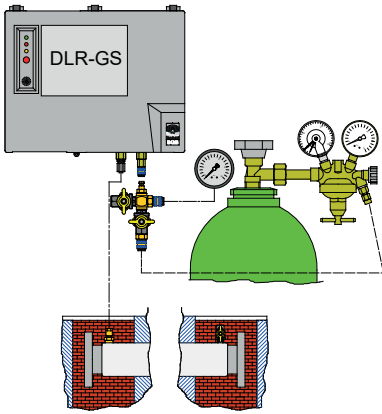
water polluting liquids e.g. petrol, gasoline, heating oil, diesel, ley, acids

Conformity:

EN 13160 class I



DLR-GS .. N: now with relay contact for refilling as standard



Installation scheme DLR-GS with leak detector, test device and installation kit

DLR-GS Type/alarm pressure	1	2	3	4	6	8	10	13	16
Operating pressure inner pipe	pressu- reless	< 1	< 2	< 3	< 5	< 7	< 9	< 12	< 15
Set pressure	5	6	7	8	10	12	14	17	20
Test pressure interstice	> 6,5	> 8,0	> 9,0	> 10	> 13	> 16	> 18	> 22	> 26

pressure values in bar; special switching values on request

Article report DLR-GS

Leak detector



Art-No.	Description	Euro	Qty
070040-04	Leak Detector DLR-GS 4 N, 100-240VAC, pl-box, CF8/6		1 pce
070040M09	Leak Detector DLR-GS 4 MN, 100-240VAC, pl-box, FU6/4		1 pce
070610M04	Leak Detector DLR-GS 1 PMN, 100-240VAC, ss-box, CF8/6		1 pce
104852	Additional price service indication, version Si (1-63 months)		1 pce

Alarm pressure up to 16 bar available as standard.



We are happy to advise you in the selection of the right leak detector – please feel free to contact us: +49 271 48964-0

Testing device



Art-No.	Description	Euro	Qty
115520	Testing Device DLR-GS		1 pce

Installation kit



Art-No.	Description	Euro	Qty
190721	Inst. kit pipe, 1/4"m - CF6/4, for CU-pipe 6/4x1mm		1 pce

Manifolds



Art-No.	Description	Euro	Qty
196280	Manifold 2 pipes, shut-off valves, gauge till 25bar, CF6/4		1 pce
196380	Manifold 3 pipes, shut-off valves, gauge till 25bar, CF6/4		1 pce
196480	Manifold 4 pipes, shut-off valves, gauge till 25bar, CF6/4		1 pce
196580	Manifold 5 pipes, shut-off valves, gauge till 25bar, CF6/4		1 pce
196680	Manifold 6 pipes, shut-off valves, gauge till 25bar, CF6/4		1 pce
196780	Manifold 7 pipes, shut-off valves, gauge till 25bar, CF6/4		1 pce
196880	Manifold 8 pipes, shut-off valves, gauge till 25bar, CF6/4		1 pce



Pressure leak detector working with air for monitoring double-walled pipes. Available in different pressure ratings. When monitoring liquids with a flashpoint < 55 °C only for pipes with a permeation tight inner wall (e.g. metallic).

The leak detector:

The DLR-P continuously monitors the pipe's interstitial space (filled with air) for leaks. In pipes with permeation-proof inner walls to transport explosive liquids, monitoring with air is cheaper than with nitrogen. For example in DRK pipe systems, corrugated pipe systems by Brugg or the MONO.S.DWR by Löw Tanktechnik.

+ Optional equipment:

- **P:** protected, weatherproof housing
- **M:** digital pressure display on the housing lid
- **FC** (filter control): dry filter monitoring to ensure maintenance of the filter in time. With this, corrosion by condensate accumulation in the interstitial space is avoided.
- **Si** (service indication): variably adjustable, time intervals from 1 to 63 months

Monitorable liquids:

water polluting liquids, e. g. petrol, gasoline, heating oil, diesel, ley, acids

! When monitoring liquids with a flashpoint ≤ 60 °C (≤ 55° C for Germany acc. TRGS 509 and 751) only for pipes with a metallic inner wall (permeation-proof).

Conformity:

EN 13160 class I



DLR-P 1.1 with pulsation damper

Switching values:

DLR-P	1.1	2.0*	2.3	2.5	3.0	4.5**
Feed pressure	pressureless	< 1.0	< 1.3	< 1.5	< 2.0	< 3.5
Alarm pressure	> 1.1	> 2.0	> 2.3	> 2.5	> 3.0	> 4.5
Set pressure	< 1.45	< 2.4	< 2.8	< 2.9	< 3.4	< 5.5
Test pressure interstice	> 2.0	> 3.0	> 3.5	> 3.5	> 4.2	> 7.5

Pressure levels in bar; special switching values on request

* DLR-P 2.0: The leak detection system test center requires at least 2 bar alarm pressure when monitoring filling lines

** DLR-P 4.5: When monitoring pipes of pressure-supplied diesel satellite columns

Article report DLR-P

Leak detector



Art-No.	Description	Euro	Qty
078011-07	Leak Detector DLR-P 1.1, 100-240VAC, pl-box, QU8/6		1 pce
078111-07	Leak Detector DLR-P 1.1, pul-d, 100-240VAC, pl-box, QU8/6		1 pce
As option: all leak detectors available with dry filter control (FC)			



078120-07	Leak Detector DLR-P 2.0, pul-d, 100-240VAC, pl-box, QU8/6		1 pce
079320M04	Leak Detector DLR-P 2.0 PM, Pul-d, 100-240CAC, ss-box, CF8/6		1 pce



07345M04	Leak Detector DLR-P 4.5 M,w.Gauge, 230V Pulsat- Damper,Steel Hous.,8mm Compr.Fe.		1 pce
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+49 271 48964-0

Dry filter



Art-No.	Description	Euro	Qty
340343	Dry filter TF600, hose connection, dry filter agent, wall holder		1 pce
340345	Dry filter TF1200, hose connection, dry filter agent, wall holder		1 pce

PA hose



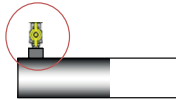
Art-No.	Description	Euro	Qty
260519	PA-hose, PN6, off-white, 8/6x1mm, 100m roll		1 roll

Installation kit



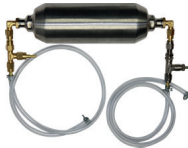
Art-No.	Description	Euro	Qty
190726	Inst. kit pipe, 1/4"m - CF8/6, for CU-pipe 8/6x1mm		1 pce
190792-07	Pipe Connection, 1/4"-QU 8/6, MS Brass, 1/4" Male, 8/6 mm Quick Union		1 pce

Prüfventil



Art-No.	Description	Euro	Qty
190700	Test Valve 1/4"K, Brass with Cock PN63 and Plug		1 pce

Testing device



Art-No.	Description	Euro	Qty
115395	Testing Device-Press. Resist. up to 4Bar for Overpressure Leak Detector		1 pce

Manifolds



Art-No.	Description	Euro	Qty
196141-07	Manifold 4 pipes, gauge till 2,5bar, QU8/6		1 pce
196161-07	Manifold 6 pipes, gauge till 2,5bar, QU8/6		1 pce
196181-07	Manifold 8 pipes, gauge till 2,5bar, QU8/6		1 pce
196237	Manifold 2 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196337	Manifold 3 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196437	Manifold 4 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196537	Manifold 5 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196637	Manifold 6 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196737	Manifold 7 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196837	Manifold 8 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce



Air based pressure leak detector especially tailor-made for the requirements of double-walled plastic pipes.

The leak detector:

The DLR-P .. CV continuously monitors the pipe's interstitial space (filled with air) for leaks. The different pressure levels cover a wide range of applications. The pipeline/pipe must have the necessary pressure resistance of 5 bar in the interstitial space.

The DLR-P .. CV is equipped with a check valve in the connection line. The check valve avoids that gas may flow towards the leak detector (zone reduction). This avoids that explosive vapors may enter the leak detector. Thus, the leak detector can be used for pipes with a low permeation.

The functional test can be done quickly and easily with SGB's testing device.

For pipes transporting explosive liquids, monitoring with air is less expansive in the long term than with nitrogen.

+ Optional equipment:

- **P:** protected, i. e. weatherproof housing
- **M:** digital pressure display
- **FC** (filter control): dry filter monitoring to ensure maintenance of the filter in time. With this, corrosion by condensate accumulation in the interstitial space is avoided.
- **Si** (service indication): variably adjustable, time intervals from 1 to 63 months

Monitorable pipes:

double-walled pipes for which suitability is given

Monitorable liquids:

water polluting liquids, e. g. petrol, gasoline, heating oil, diesel, ley, acids

Conformity:

EN 13160 class I



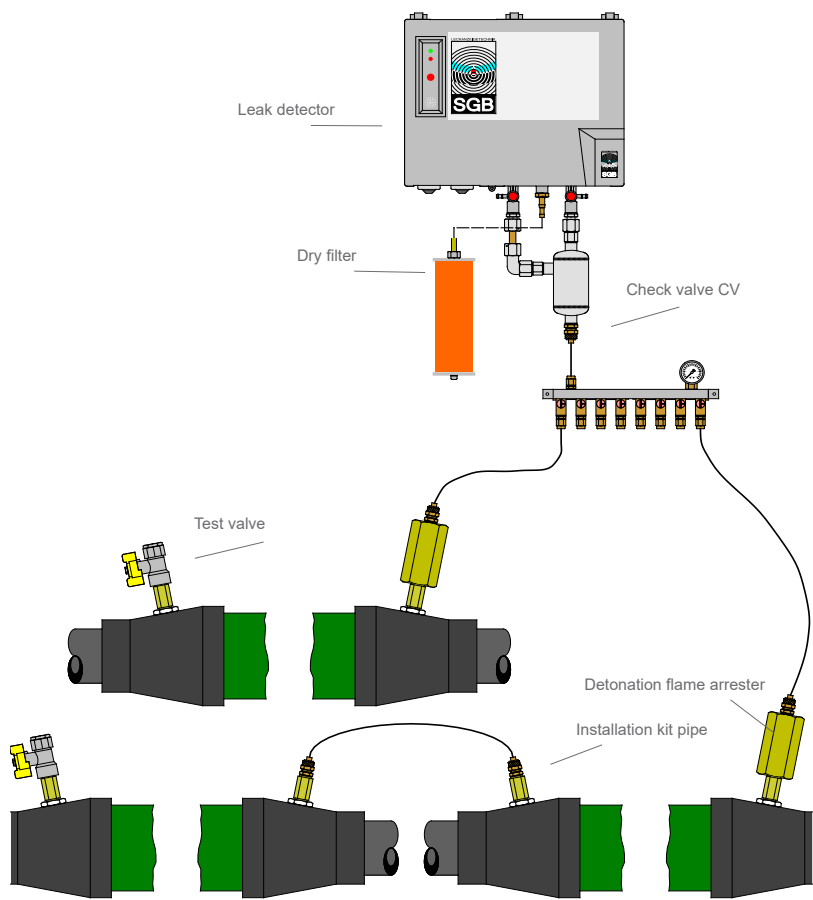
Check valve CV

DLR-P 1.1 CV with pulsation damper

DLR-P ... CV Type/Alarm pressure	1.1	2.0
Feed pressure inside inner pipe	pressure- less	< 1.0
Set pressure	< 1.4	< 2.4
Test pressure interstice	> 2.0	> 5.0

Pressures in bar; further pressure levels on request

Overview: DLR-P .. CV with accessories



Article report DLR-P .. CV

Leak detector



Art-No. Description

Euro

Qty

078420-07	Leak Detector DLR-P 2.0 CV, pul-d, 100-240VAC, pl-box, QU8/6		1 pce
Overpressure leak detector DLR-P 2.0 CV with a check valve in the connection line towards the interstitial space. The check valve avoids that gas may flow towards the leak detector. This avoids that explosive vapors may enter the leak detector. Therefore the function test of the leak detector only can be executed by ventilation with a test valve at a pipe end or with the SGB testing device. The interstitial space shall be rated for 5 bar overpressure.			
Alternatively, in case 1.1 bar alarm pressure is sufficient:			
078411-07	Leak Detector DLR-P 1.1 CV, pul-d, 100-240VAC, pl-box, QU8/6		1 pce
104852	Additional price service indication, version Si (1-63 months)		1 pce

Dry filter



Art-No. Description

Euro

Qty

340343	Dry filter TF600, hose connection, dry filter agent, wall holder		1 pce
340345	Dry filter TF1200, hose connection, dry filter agent, wall holder		1 pce

Manifolds



Art-No. Description

Euro

Qty

196237	Manifold 2 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196337	Manifold 3 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196437	Manifold 4 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196537	Manifold 5 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196637	Manifold 6 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196737	Manifold 7 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce
196837	Manifold 8 pipes, shut-off valves, gauge till 4bar, QU8/6		1 pce

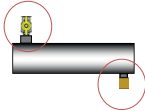
Article overview DLR-P .. CV

PA hose	Art-No.	Description	Euro	Qty
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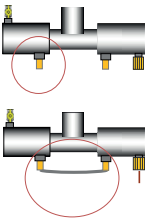
260519	PA-hose, PN6, off-white, 8/6x1mm, 100m roll		1 roll
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Test valve e.g. KPS	Art-No.	Description	Euro	Qty
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190702	Testvalve for KPS-Pipe Con.,KV6 o. 1/4" with Cock PN10 and Plug		1 pce
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Pipe connection e.g. KPS	Art-No.	Description	Euro	Qty
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190795-07	Pipe Connection, KPS - QV8/6 KV6 or 1/4" - 8/6 mm Quick Union, Brass		1 pce
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Installation kits (i.e. test valves and pipe connections) for connecting the leak detector are available for all common pipes (types/manufacturers)! We are happy to be of any help – just call us on: +49 271 48964-0

Testing device	Art-No.	Description	Euro	Qty
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115395	Testing Device-Press. Resist. up to 4Bar for Overpressure Leak Detector		1 pce
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Detonation flame arrester	Art-No.	Description	Euro	Qty
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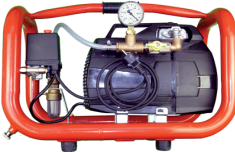



193435-07	Deton. Flame Arrester F502, 1/4"-QU8/6 Brass, 1/4" Male, 8/6 mm Quick Union		1 pce
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The detonation flame arrester shall be tested for overpressures. The detonation flame arrester type F502 is suitable for pressures up to 3 bars.


Installation accessories

Installation pumps	Art-No.	Description	Euro	Qty
	200820	Vacuum Pump VP218, 240 V, 1,5KW incl. Liquid Stop, Condensate Trap, HM		1 pce
	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, manome		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-protected vacuum pump for evacuating interstitial spaces in which ex-vapors 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!).			

	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.			

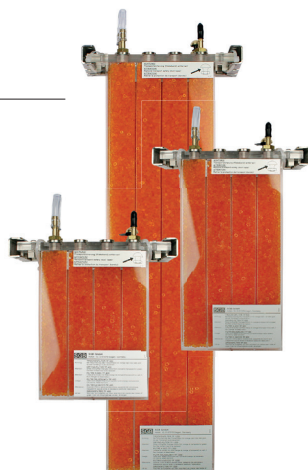


Art-No.	Description	Euro	Qty
115395	Testing Device-Press. Resist. up to 4Bar for Overpressure Leak Detector		1 pce
For a simple and quick function test of leak detectors, (overpressure and vacuum) with a pressure of max. 4 bar. With a port to connect a gauge. With ventilation device for controlled pressure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

Dry filters

+ Increased effectiveness through improved air circulation

The rectangular shape and subdivision of the dry filters into four chambers provides an improved air flow and air-drying in the dry filter. The penetration of humid air before consumption of the filter is prevented by the longer way the air must take. The dry pearls are used optimally by this form.



+ Practical by clearer indication of the consumption

It is now even easier and clearer to see when you need to exchange the dry pearls. The dry pearls change colour from orange towards white or green. If the colour change is in the range of the first to the third chamber, no exchange of pearls is necessary. Has the colour change arrived in the fourth chamber the dry pearls must be renewed..

+ Feed hopper



With the practical new hopper filling of the dry filter is easy. Go for the one-way version of sturdy cardboard which is directly supplied of the dry pearls and easy to fold.

+ High efficiency by lower consumption

The dry filters need significantly less dry pearls. Due to the improved air circulation the dry filters are as durable as the predecessors.

+ Sturdy design for outdoor installation

The dry filters are made of UV-resistant plastic. The support bracket is made of stainless steel.

+ Wall mounting option and first filling of dry pearls included

All models include the wall mounting options or the wall brackets. Also, the first filling of dry pearls is included.

+ User-optimised dry material

Dry pearls are not always used directly. To allow longer storage times and to ensure the highest possible dryness of the material the refill dry pearls are now supplied in permaton-proof aluminum bottles.



+ Flexible and individual use by different sizes of dry filters

The dry filters are available in four sizes: TF 200, TF 400, TF 600 and TF 1200. Through standard hose connections and the unity of form all dry filters can be combined individually.

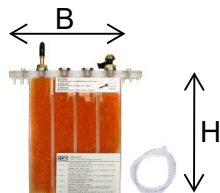
Installation accessories

Dry filter

Art-No. Description Euro Qty



340310	Dry filter TF180, hose connection, dry filter agent, wall holder		1 pce
bore holes: 4,5 mm diameter: 54 mm height: 120 mmm			



340340	Dry filter TF200, hose connection, dry filter agent, wall holder		1 pce
replaces the previous Dry Filter TF 1 bore holes: 5 mm height: 165 mm width: 180 mm			

340342	Dry filter TF400, hose connection, dry filter agent, wall holder		1 pce
bore holes: 6,5 mm height: 180 mm width: 192 mm			

340343	Dry filter TF600, hose connection, dry filter agent, wall holder		1 pce
replaces the previous Dry Filter TF 2 bore holes: 6,5 mm height: 270 mm width: 192 mm			

340345	Dry filter TF1200, hose connection, dry filter agent, wall holder		1 pce
replaces the previous Dry Filter TF 6 bore holes: 6,5 mm height: 520 mm width: 192 mm			

Support bracket

Art-No. Description Euro Qty



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



340311	Dry filter agent, TF180		1 pce
340215	Dry filter agent, 200		1 pce
340214	Dry filter agent, TF300		1 pce
340216	Dry filter agent, TF400		1 pce
340218	Dry filter agent, TF600		1 pce
340272	Dry filter agent, aluminum bottle 1250ml (930 gram)		1 pce
340273	Dry filter agent, aluminum bottle 6250ml (4750 gram)		1 pce

Now also with Ethernet module
 • 100 % safety
 • 0 % current costs for 5 years

Remote monitoring LOD

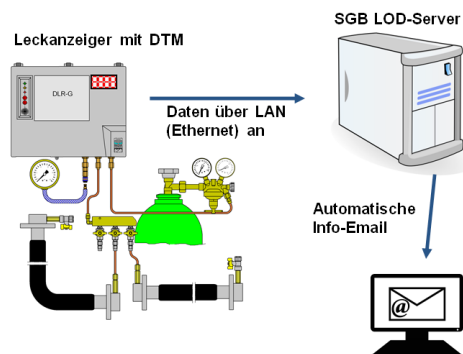
The LOD technology (= Leak detector Online Diagnostics) establishes a secure and continuous remote monitoring of leak detectors. All leak detector operating conditions and data can be collected and transmitted autonomously via ethernet connection to the LOD server and analysed every 24 hours. As a result, the correct operation of the leak detector is subject to continuous online examination.

Each alarm is immediately transmitted to the system and leads directly and automatically to a notification of predetermined addressees by e-mail (LOD with ETHERNET-module) or e-mail/ sms (LOD with GSM-module).

- !** The monitoring of all connected leak detectors becomes considerably safer because it is no longer possible to:
- detect an alarm notification with delay,
 - ignore pending alarms or to
 - manipulate the leak indicating unit.

Insbesondere gilt dies für abgelegene, selten oder schwer zugängliche Installationen, mannlose Tankstellen und Netzersatzanlagen.

Function scheme of LOD-ETH:



VLR-410/E mit LOD-ETH

PARTICULARLY SUITABLE FOR

- Remote or difficult to access installations
- Unmanned petrol stations
- Emergency power supplies

System overview:

- Daily notifications to determine the operational availability of the leak detectors
- Current system pressure
- Alarm in case of pressure loss
- Tightness of entire system consisting of leak detector and connected interstice
- Usage of drying filters for service requests
- Frequency of pump run and total count of pump service requests
- Failure of magnetic valve (only with certain vacuum leak detectors)
- Response of internal sensor (sensor/ZD)
- General faults with electronics
- Status of an additional digital sensor (if connected to DTM)
- Activation of a potential-free contact (SGB-telemetry)

+ Customized type plates:

We are happy to customize individualized type plates for you or your customers. The customization includes the intake of both the client's logo as well as the client's address.



+ Professional training:

The choice, the construction and commissioning of leak detectors is not always easy due to the wide variety of liquids to be stored in 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 ... Especially for „newbies“ it is difficult to keep track of when each leak detector is required and how it must be put into operation. Our professional seminar helps here – with in-depth background information and many practical demonstrations.

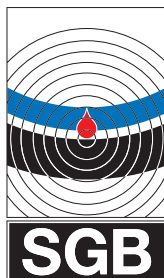
More information and booking on:
www.sqb.de/en/seminare

Content excerpts:

- legal background
- technology and functioning
- monitoring of tanks and liquids
- application areas and the limitation of use
- assembly, maintenance, and testing
- presentation of essential products



Picture above: SGB's training room



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