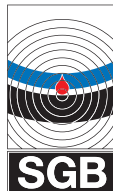


# LEAK PREVENTION TECHNOLOGY

For a clean and protected environment



## Vacuum leak detectors for tanks VL .. | VL .. E | VL .. PM | VL .. PMMV

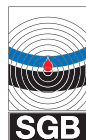


Variants • Equipment • Accessories

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## CONTENT

- 03\_ About SGB's leak detectors
- 04\_ Function principle "vacuum"
- 05\_ Equipment - SGB's standard at vacuum leak detectors VL ..
- 06\_ Options and additional functions
- 07\_ Which VL on which tank?

### VL VACUUM LEAK DETECTORS FOR TANKS

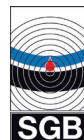
- 08\_ VL 34 options
- 09\_ VL 34 leak detector for tanks with suction line and lining
- 13\_ VL 230/VL 330 leak detectors for tanks with 2 m/3m diameters
- 17\_ VL .. E leak monitoring with an additional sensor
- 19\_ VL 320-420 leak detector for battery tanks made by "Cemo"
- 20\_ VL 255 PM leak detector for flat bottom tanks
- 22\_ VL 255 PMMV leak detector with solenoid valves for flat bottom tanks
- 25\_ VL 570 leak detector for tanks
- 26\_ VL 570 PMMV leak detector with solenoid valves for tanks with high overlay pressures

### REMOTE MONITORING LOD / SERVICES

- 30\_ Remote monitoring LOD
- 31\_ Service (tailored type plates, special training)



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## About SGB's leak detectors

### Safety in leak monitoring of double-walled tanks and pipes

SGB leak prevention systems is a byword for quality in monitoring double walled tanks and pipes with a vacuum or a pressure leak detector to realize the highest environmental protection level in accordance to class I of EN 13160. A leak prevention system consists out of a leak detector and a leak indicator and monitors tanks and pipes 100 % safely and continuously for any leak.

- SGB is DIN EN ISO 9001 certified (since 1999)
- in accordance to class I of European standard EN 13160 (which is the highest environmental protection level)
- both individually tested as well as tested by the German TÜV



### Know-how since 1962

Over 430,000 SGB leak detectors currently in use ensure safety worldwide – at tank farms, refineries, chemical plants, filling stations, and indigenous heating oil storage tanks. Leak detection systems by SGB are a recognized brand product since 1962 – at home and abroad!

### Vacuum leak detectors VL

VL = **V**ackuum **L**eak detector with an integrated underpressure pump

On the following pages you will find an overview of SGB's vacuum leak detectors for the monitoring of tanks and containers like double-walled underground horizontal tanks, single-walled aboveground tanks with a leak protection lining, flat bottom tanks, etc. You will also find the corresponding equipment, spare parts, and accessories like remote controll LOD.

In addition to the pressure levels listed, we would also be happy to fulfill your special requirements and realize your tailored solution. Please talk to us! For further information please click on our new B2B shop under **shop.sgb.de**.

### Contact

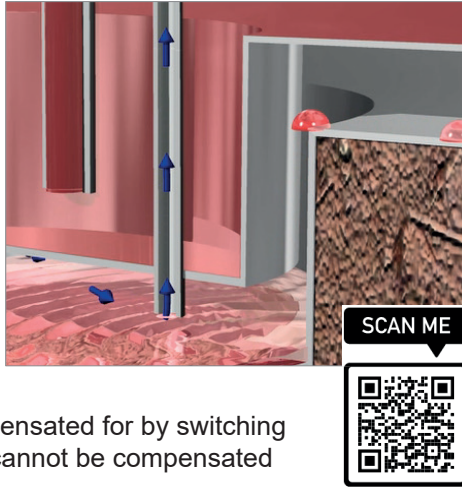
Please call us Tel. **+49 271 48964-0** or write an e-mail to **sgb@sgb.de**.

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### Function principle „underpressure“

With the VL leak detectors, a negative pressure is generated and permanently hold in the interstitial space. In the event of a leak in one of the two walls, either air (air leak) or stored product/groundwater (liquid leak) is sucked into the interstitial space. Due to the vacuum, a spillage of the stored product into the environment is safely and reliably prevented!



Minor and unavoidable leaks are compensated for by switching on the vacuum pump. Relevant leaks cannot be compensated due to the limited pump delivery rate:

- > Air leak: If more air enters the interstitial space than the vacuum pump can evacuate, the vacuum in the system drops. When the alarm pressure is reached, the visual and acoustic alarms are triggered.
- > Liquid leak: Stored product or groundwater is sucked in until the medium reaches the liquid sensor/liquid barrier. The remaining negative pressure sucks further medium into the interstitial space. This causes the vacuum to drop further. When the alarm pressure is reached, the optical and acoustic alarm are triggered and - depending on the device version - the pump or the solenoid valves are closed.

**!** With vacuum leak detectors, stored product and its vapors can get into the interstitial space, the connecting lines or even into the leak detector. Therefore, all components used must be sufficiently chemically resistant to the stored goods and their vapors!

**!** The vacuum leak detectors presented in this brochure are not designed to be explosion-proof. Any influence of a potentially explosive atmosphere must therefore be excluded for the entire system under all operating conditions!



### Equipment - SGB's standard

SGB vacuum leak detectors VL are electronic as standard and have an integrated pump. This vacuum pump maintains the vacuum or the preset operating pressure. This depends on several parameters such as the test pressure of the interstitial space, tank seize/height, type and configuration of the tank, etc.

Depending on the requirements of the plant, the VL vacuum leak detectors are available in various designs (please see also page 6, options and additional functions).



**All SGB VL are fully electronic. Our standard includes:**

- Electrical connection optionally at the top or at the bottom of the leak detector
- Long-living LED
- Long-living Piezo buzzer
- **Three-way valves with detent in suction and measuring line**
- Potential-free contacts for alarm forwarding
- Integrated tightness test of the system

### + Housing variants + protective boxes

- User-friendly plastic box
- Weatherproof stainless steel box (P) for outdoor installation
- Reasonable protective box (ISO N 19) with horn (90 dB) for installation in damp rooms
- Weatherproof plastic protective box KS 1449 for outdoor installation

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## Options and additional functions



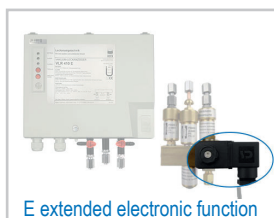
8S connection 1-8 Ex-sensors



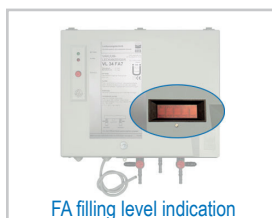
AZ elapsed alarm time counter



CV check valve



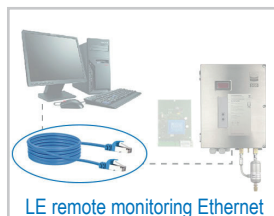
E extended electronic function



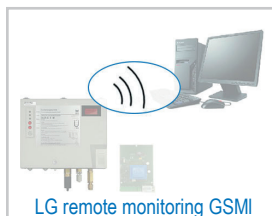
FA filling level indication



FC filter control



LE remote monitoring Ethernet



LG remote monitoring GSM



M digital manometer



N refilling required



P weather-proof housing



S service display



Si service indication

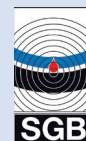


T tightness alarm

Availabilities and combinations depend on the leak detector. Please contact our sales team:



T +49 271 48964-0  
E sgb@sgb.de



## Which leak detector VL for which tank?

### VL 34

- Single-walled tanks with leak protection lining/jacket and a suction line to the low point of the interstitial space (e.g. heating oil, diesel)
- Other tanks with a suction line to the low point of the interstitial space

### VL 230/ VL 330

- Double-walled steel or plastic tanks

### VL .. E

- With additional leakage probe for the monitoring of collecting chamber, pans, tank sumps ...

### VL 255 PM(MV)

- Flat bottom tanks

### VL 320-420

- Battery tanks made by "Cemo" company

### VL 570

- Double-walled horizontal cylindrical tanks, containments, pans, sumps

### VL 570 PMMV

- Horizontal cylindrical double-walled tanks; vertical tanks; single-walled tanks with a leak protection lining; other suitable tanks – even with an inner overlay pressure up to 25 bar

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## VL 34 - helpful options and additional functions



### Service display S

The integrated service display reports the prescribed function test for the leak detector every year (the yellow LED flashes). As part of this check, the service indicator counter is reset by the specialist company's employee. After 12 months, the due service is again indicated by the yellow LED.



### Adjustable service indication Si

When the leak detector is commissioned, the time for the prescribed functional test can be freely selected within the specified maintenance interval. Time intervals from 1 to 63 months can be set. The service display (yellow LED at the very bottom) visually reports the pending function test for the leak detector.



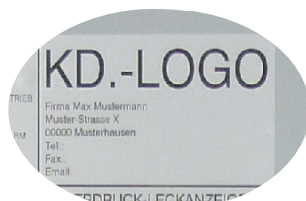
### NEW Filling level indication FA7

The electronic level indicator integrated in the leak detector determines the level in the connected tank (diesel or heating oil tank) easily and conveniently at the push of a button. The content is automatically displayed alternately in liters, in percent and in centimeters. The values appear in the new 5-digit display.



### Service: Customized type plates

We would be happy to produce customized type plates for you or your customers. Both the customer's logo and the address can be included.



## VL 34

For single-walled tanks with a leak protection lining and other containments with a suction line for the leak detector to the low point of the interstitial space. Not explosion-proof design!

**Type with alarm underpressure (mbar):**  
VL 34

**Operating pressure:**  
ca. < -120 mbar

### Monitorable tanks:

- Single-walled containers with a leak protection lining e.g. acc. to DIN 6608, 6616, 6625
- Vertical tanks acc. to DIN 6618/2

### Stored products:

Water-polluting liquids with a flash point > 60 °C (for Germany > 55° C acc. to TRBS/TRGS), e.g. heating oil, diesel

### VL 34 versions:

- VL 34 S - with service display
- VL 34 Si - with service indication
- VL 34 FA - with filling level indication
- VL 34 FAS - with level- and service indication

**NEW** Now with technically improved level indicator FA7

Type	Standard	Service display fixed (S)/variabel (Si)	Filling level indication (FA)
VL 34	✓		
VL 34 S/Si	✓	✓	
VL 34 FA	✓		✓
VL 34 FAS	✓	✓	✓







VL 34 in plastic housing (top)  
and in high-quality weather-proof stainless steel housing (down)

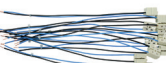



## Article report VL 34 with PVC hose as connecting line

All versions now online:  
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Leak detector VL 34 ..	Art.-No.	Description	Euro	Qty
	080034-00	Leak detector VL 34, 230VAC, pl-box, H4+H6		1 pce
	104850	Additional price for version "S" service display		1 pce
	104852	Additional price for version "Si" service indication (1-63 months)		1 pce
	104865	Additional price for version "M" digital manometer		1 pce
	104000-00	Leak detector VL 34 P, 230VAC, ss-box, H4+H6		1 pce



Protective boxes	Art.-No.	Description	Euro	Qty
	220505	Protective Box ISO N19, with Horn 90dB 340x340x180 mm, Prep. to Mount a VL 34		1 pce
	220520	Protective box KS 1448, 400x400x200mm, LD prepared f. installat.		1 pce

Cable extension	Art.-No.	Description	Euro	Qty
	385385	Cable extension for peplace a device VL-N/H...nach VL..., 10 pieces as Unit		1 pce

Measuring hose	Art.-Nr.	Description	Euro	Qty
	110730	Measuring hose oil proof, 3 m, tank screw connection		1 pce

## Article report VL 34 with PVC hose as connecting line

Condensat traps	Art.-No.	Description	Euro	Qty
	310020	Triple condensate trap, each 30ml, PVC-hose 8/4x2mm or 10/6x2mm		1 pce
	310030	Condensate trap, S4, 1 liter, brass/MAK, with drain screw		1 pce
	310032	Condensate trap, S4, 1 liter, brass/MAK, with drain valve, PVC-hose with 4mm i.d.		1 pce

PVC hose	Art.-No.	Description	Euro	Qty
	260101	PVC hose, red, 8/4x2mm, 100 m roll		1 roll
	260103	PVC hose, green, 8/4x2mm, 100 m roll		1 roll
	260105	PVC hose, clear, 8/4x2mm, 100 m roll		1 roll
	260111	PVC hose, red, 10/6x2mm, 100 m roll		1 roll
	260113	PVC hose, green, 10/6x2mm, 100 m roll		1 roll
	260115	PVC hose, clear, 10/6x2mm, 100 m roll		1 roll



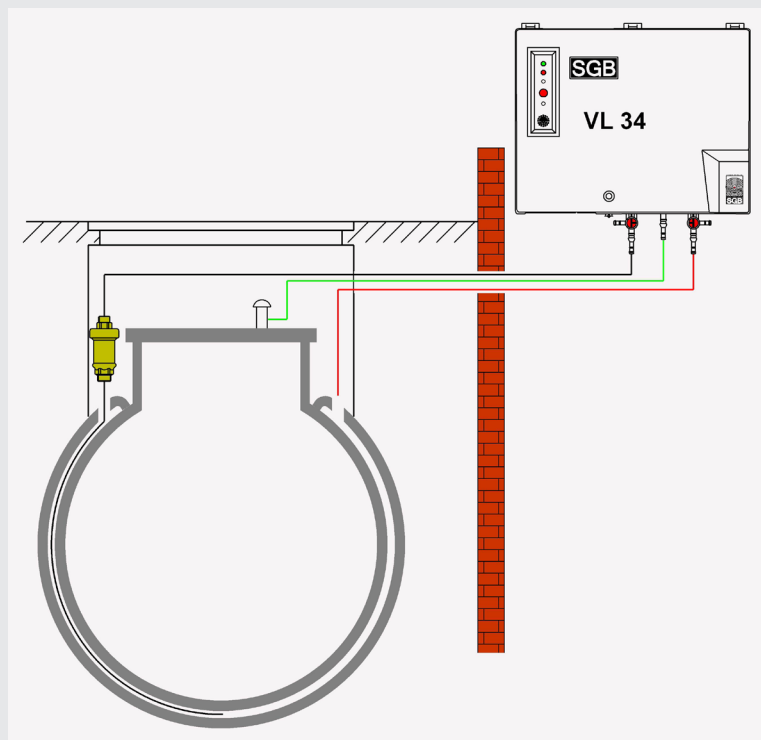
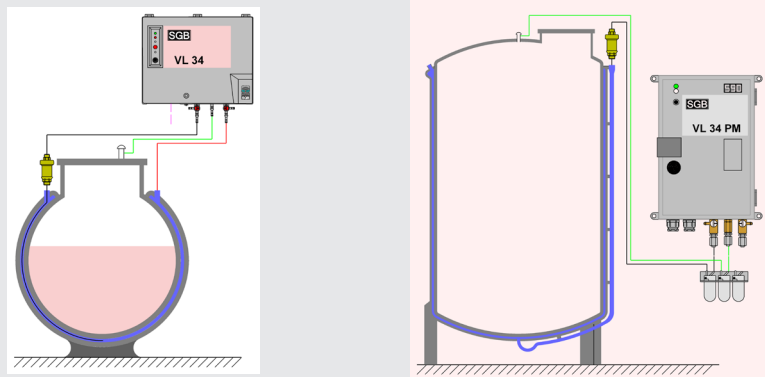
We are happy to advise you in the selection of the right leak detector - please feel free to contact us:  
**+49 271 48964-0**



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**shop.sgb.de**

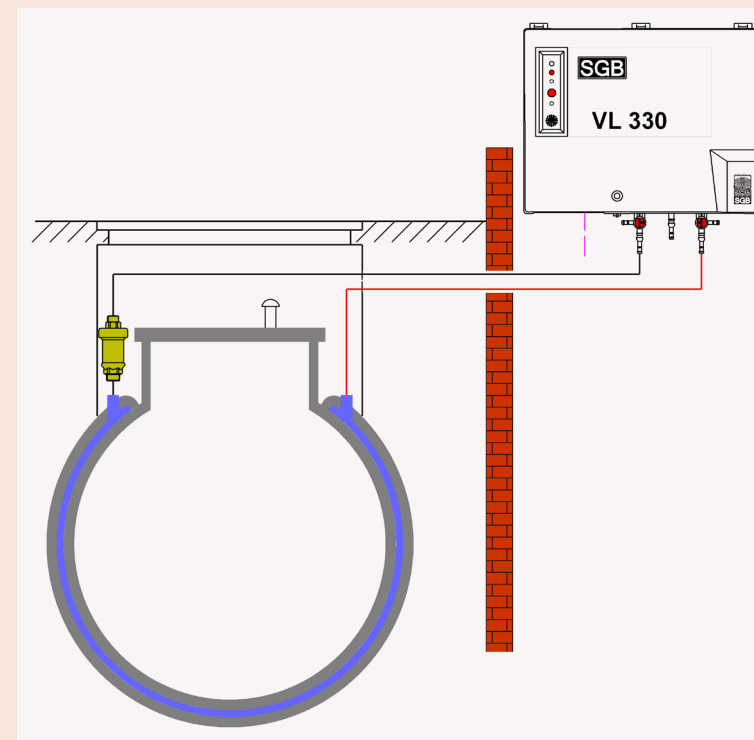
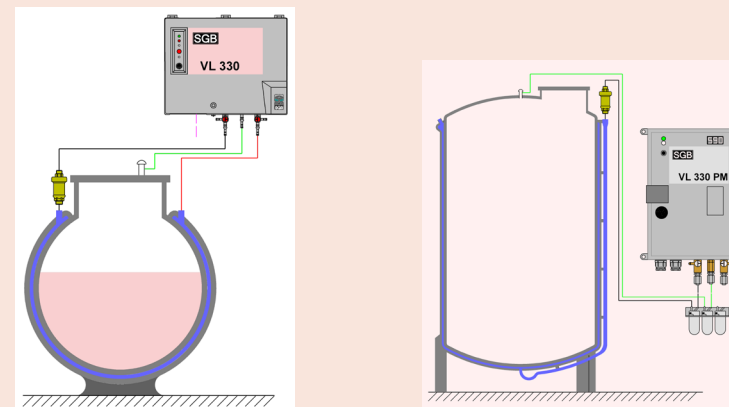
## Installation schemes VL 34

The VL 34 monitors aboveground tanks (see top schemes) and underground tanks (see bottom schemes).



## Installation schemes VL 230/VL 330

The VL 230/330 monitors aboveground tanks (see top schemes) and underground tanks (see bottom schemes).



## VL 230 and VL 330

For plastic or steel tanks/containments.

**Types with alarm underpressure (mbar):**  
VL 230, VL 330

**Operating pressure:**

VL 230: < -360 mbar, VL 330: < -450 mbar

**Monitorable tanks:**

- Double-walled e.g. acc. to EN 12285 or DIN 6608, 6616, 6618, 6619 ...
- Single-walled e.g. acc. to EN 12285 or DIN 6608, 6616, 6619 und 6625 and others with a leak protection lining
- Vertical tanks acc. to DIN 6618/2
- Double-walled troughs and surface seals

**Stored products:**

Water-polluting liquids with a flash point > 60 °C (for Germany > 55 °C acc. TRBS/TRGS) where no explosive vapor-air mixtures occur. E.g. heating oil, diesel, motor oil, acids, lyes...

**VL versions:**

- S - Service display  
Si - Service indication  
FA - Filling level indication FA7  
FAS - Filling level indication and service display



PP - Polypropylen (for a higher chemical resistance)



VL 330 in plastic housing (top)  
and in high-quality weather-proof  
stainless steel housing (bottom)



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## Leak detector VL 230



Art.-No.	Description	Euro	Qty
080230-00	Leak Detector VL 230, 230VAC, pl-box, H4+H6		1 pce
080230W00	Leak Detector VL 230 S, 230VAC, pl-box, H4+H6		1 pce
080232-00	Leak Detector VL 230, 24VDC, pl-box, H4+H6		1 pce
080232M00	Leak detector VL 230 M, 100-240VAC 24VDC, pl-box, H4+H6		1 pce
080230-07	Leak Detector VL 230, 230VAC, pl-box, QU8/6		1 pce
080230-04	Leak Detector VL 230, 230VAC, pl-box, CF8/6		1 pce
080230-06	Leak Detector VL 230, pp-v, 230VAC, pl-box, ss-CF8/6		1 pce
080230-19	Leak Detector VL 230, pp-v, 230VAC, pl-box, PP8/6		1 pce
080230-20	Leak Detector VL 230, pp-v, 230VAC, pl-box, hose with 6 mm i.d.		1 pce



## Leak detector VL 330



Art.-No.	Description	Euro	Qty
080330-00	Leak Detector VL 330, 230VAC, pl-box, H4+H6		1 pce
104010-00	Leak detector VL 330 P, 230VAC, ss-box, H4+H6		1 pce
080330-07	Leak Detector VL 330, 230VAC, pl-box, QU8/6		1 pce
080330-04	Leak Detector VL 330 230VAC, pl-box, CF8/6		1 pce
104010-04	Leak detector VL 330 P, 230VAC, ss-box, CF8/6		1 pce
088331M06	Leak Detector VL 330 PM, ss-v, 100-240VAC 24VDC, ss-box, ss-CF8/6		1 pce
080330-20	Leak Detector VL 330, pp-v, 230VAC, pl-box, hose with 6 mm i.d.		1 pce
080330-06	Leak Detector VL 330, pp-v, 230VAC, pl-box, ss-CF8/6		1 pce
080330-19	Leak Detector VL 330, pp-v, 230VAC, pl-box, PP8/6		1 pce
081330-20	Leak Detector VL 330 E, pp-v, 230VAC, pl-box, hose with 6 mm i.d.		1 pce
081330-06	Leak Detector VL 330 E, pp-v, 230VAC, pl-box, ss-CF8/6		1 pce



Type VL ..	Standard	Service display fixed (S) / variabel (Si)	Filling level indication (FA)
230/330	✓		
230/330 S/Si	✓	✓	
230/330 FA	✓		✓
230/330 FA S	✓	✓	✓

## LEAK DETECTORS FOR TANKS

## LEAK DETECTORS FOR TANKS

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Complete sets



Art.-No.	Description	Euro	Qty
103801	VL 330 (underground) complete set, inst. kit, 20m PVC-hose 8/4x2mm each color		1 pce
103802	VL 330 (above ground) complete set, kt, inst. kit, 20m PVC-hose 10/6x2mm each color		1 pce

Condensate traps



Art.-No.	Description	Euro	Qty
310020	Triple condensate trap, each 30ml, PVC-hose 8/4x2mm or 10/6x2mm		1 pce
310012	Condensate trap, CF8/6, 40ml, brass/MAK, CU-pipe 8/6x1mm		1 pce

Installation kits



Art.-No.	Description	Euro	Qty
190806-00	Inst.-Kit VL 34-570, R1"m - H4+H6, PVC-hose 8/4x2mm or 10/6x2mm		1 pce
190805-00	Inst. kit VL 34-570, R3/4"m - H4+H6, PVC-hose 8/4x2mm or 10/6x2mm		1 pce
190804-00	Inst. kit VL 34-570, R1/2"m - H4+H6, PVC-hose 8/4x2mm or 10/6x2mm		1 pce

PVC hose



Art.-No.	Description	Euro	Qty
260111	PVC-hose, red, 10/6x2mm, 100m roll		1 roll
260113	PVC-hose, green, 10/6x2mm, 100m roll		1 roll
260115	PVC-hose, clear, 10/6x2mm, 100m roll		1 roll

PA hose



Art.-No.	Description	Euro	Qty
260517	PA-hose, PN6, red, 8/6x1mm, 100m roll		1 roll
260518	PA-hose, PN6, green, 8/6x1mm, 100m roll		1 roll
260519	PA-hose, PN6, off-white, 8/6x1mm, 100m roll		1 roll

VL .. E incl. sensor

VL .. E incl. sensor not only monitor the tank but also collecting pans, manhole and monitoring chambers as well as pump sums using the associated float switch.

Additional terminals for connecting external signal transmitters and potential-free contacts for alarm transmission are available as standard.

Monitorable tanks:

- Single-walled tanks with a leak protection lining (VL 34 E)
- Double-walled tanks (VL 330 E)

With a sensor for:

- Collecting chambers and pans
- Manhole and monitoring chambers/shafts

Stored products:

Water-polluting liquids with a flash point >60 °C (for Germany > 55 °C acc. TRBS and TRGS) where no explosive vapor-air mixtures occur



VL 34 E incl. sensor

Switching values (mbar):

Type VL .. E	Alarm pressure	Operating pressure
34	> 34	< 90
330	> 330	< 450



Leak detector VL 34 E

Art.-No.	Description	Euro	Qty
081034S00	Leak Detector VL 34 E, sensor FS (15m), 230VAC, pl-box, H4+H6		1 pce



Leak detector VL 330 E

Art.-No.	Description	Euro	Qty
081330S00	Leak Detector VL 330 E, sensor FS (15m), 230VAC, pl-box, H4+H6		1 pce



Installation kits

Art.-No.	Description	Euro	Qty
190806-00	Inst.-Kit VL 34-570, R1"m - H4+H6, PVC-hose 8/4x2mm or 10/6x2mm		1 pce



Condensate traps

Art.-No.	Description	Euro	Qty
310020	Triple condensate trap, each 30ml, PVC-hose 8/4x2mm or 10/6x2mm		1 pce



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

VL 320-420

Monitor battery tanks made by the company "Cemo".

**Types:**  
VL 320-420

**Monitorable tanks:**  
• Battery tanks of company "Cemo"

**Stored products:**  
Water-polluting liquids with a flash point > 60 °C (for Germany > 55 °C acc. to TRBS/TRGS) where no explosive vapor-air mixtures occur

**Installation:**  
Outside Ex areas

**Housing / IP Rate / Temperature range:**  
Plastic box / IP 30 / 0 °C .. +40 °C

**Pneumatic connections:**  
H4+H6: Hose connection for PVC hose 8/4x2 mm or 10/6x2 mm (only for pressureless tanks)

Type VL	Alarm pressure	Operating pressure
320-420	> 320	< 420



VL 320-420 for Cemo tanks



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New  
technical  
standard

## VL 255 PM

For flat bottom tanks with double-walled bottoms. **THE NEW STANDARD!** With stainless steel or brass connections.

**Type:**  
VL 255 PM

**Operating underpressure:**  
ca. -380 mbar

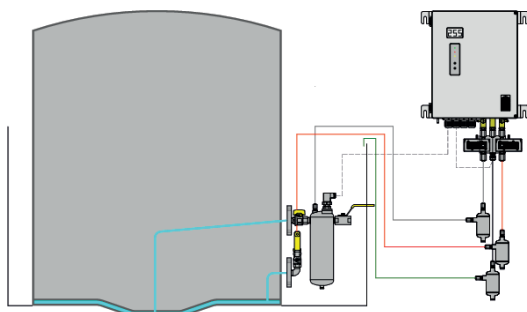
### Monitorable tanks:

- Flat bottom tanks with double-walled plastic or steel bottoms, e.g. acc. to EN 14015, formerly DIN 4119. Mind resistance of the leak detector towards the stored product!

### Stored products:

Water-polluting liquids with a flash point > 60 °C (for Germany > 55 °C acc. to TRBS/TRGS) where no explosive vapor-air mixtures occur, e.g. heating oil, diesel, motor oil

### Installation scheme VL 255 PM



VL 255 PM in new high-quality stainless steel box


New  
technical  
standard

### The new standard for flat bottom tanks:


- Extended operating temperature: **-40 up to +60 °C**
- Stainless steel box (P)**
- New SMD technology & new pump generation**
- Digital manometer (M)**
- Flexible power supply with 100...240 VAC or 24 VDC**


## Article report VL 255 PM


Connections in **stainless steel** or **brass**

Leak detector VL 255 PM	Art.-No.	Description	Euro	Qty
	088256M06	Leak Detector VL 255 PM, ss-v, 100-240VAC 24VDC, ss-box, ss-CF8/6		1 pce


**STAINLESS STEEL**

Installations kits	Art.-No.	Description	Euro	Qty
	190690	Inst. kit VL..., exhaust, ss-CF8/6, ss-pipe 8/6x1mm, containment		1 pce
	190693	Inst. kit VL..., exhaust, ss-CF8/6, ss-pipe 8/6x1mm, outdoors		1 pce

Stainless steel pipes	Art.-No.	Description	Euro	Qty
	421031	ss pipe, 1.4571, 8/6x1mm, customized length, max. 6m		1 pce
	421033	ss pipe, 1.4571, 8/6x1mm, 6m rod		1 pce

Leak detector VL 255 PM	Art.-No.	Description	Euro	Qty
	088255M04	Leak Detector VL 255 PM, 100-240VAC  24VDC, ss-box, CF8/6		1 pce

**BRASS**

Installation kits	Art.-No.	Description	Euro	Qty
	190120	Installation Kit Flat Bottom Tank, MS VL255, Flange DN 25 - KV 8, Brass		
	190130	Installation Kit Flat Bottom Tank, MS VL255/VLX330, R1"male - KV 8, Brass		
	190691	Inst. kit VL..., exhaust, CF8/6, CU-pipe 8/6x1mm, containment		

Find out more about  
devices and accessories at  
**shop.sgb.de**



New  
technical  
standard

## VL 255 PMMV

For heated flat bottom tanks and flat bottom tanks with highly aggressive stored products such as acids or lyes.

**Types:**  
VL 255 PMMV

**Operating pressure:**  
ca. -380 mbar

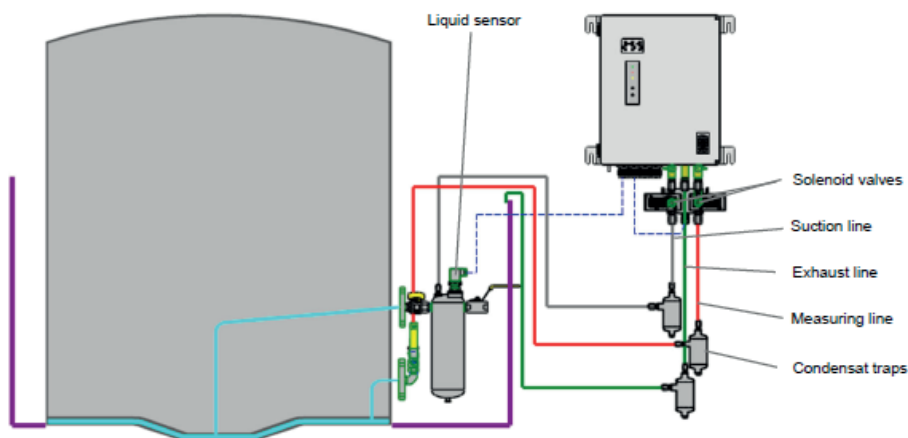
### Monitorable tanks:

- Flat bottom tanks with a double-walled bottom made of steel or plastic e.g. acc. to EN 14015 formerly DIN 4119. Please mind the resistance against the stored product!

### Stored products:

Water-polluting liquids with a flash point  $> 60^{\circ}\text{C}$  (for Germany  $> 55^{\circ}\text{C}$  acc. to TRBS/TRGS) where no explosive vapor-air mixtures occur, e.g. heating oil, diesel, motor oil

### Installation scheme VL 255 PMMV



> Tank acc. DIN 4119/EN 14015

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VL 255 PMMV in high-quality stainless steel box with weather-protected solenoid valves

## The new standard for the leak monitoring of flat bottom tanks: VL 255 PMMV

NEW  
TECHNICAL  
STANDARD

High-quality and robust stainless steel box (IP 54)

User-friendly digital manometer (M) showing the current vacuum

Modern soft-key-pad

Full electronic version

Optional: variably adjustable service indication Si

Increased long-life cycle: The weatherproof solenoid valves (MV) are directly installed below the leak detector = less time + effort for installation



Extended operating temperature range:  $-40^{\circ}\text{C}$  bis  $+60^{\circ}\text{C}$

Powerful with new SMD technology and new pump generation

Flexible power supply with 100–240 VAC or 24 VDC

Pneumatic connections completely made of stainless steel

Optional: innovative remote monitoring LOD Leak detector Online Diagnostics



A Class 1 leak detection system according to EN 13160: Every leak – no matter in which of the bottoms – is indicated by an acoustical and optical alarm before the stored product can escape into the environment. The VL 255 PMMV thus fulfills the highest safety requirements in environmental and water protection according to European standards!

Leak detector VL 255 PMMV Art.-No.	Description	Euro	Qty
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084256M11	Leak Detector VL 255 PMMV, ss-v, 100-240VAC 24VDC, ss-box, ss-FU6/4		1 pce
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Installation kit solenoid valve

Art.-No.	Description	Euro	Qty
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190290	Inst. kit solenoid valve, ss-v, suction + measuring (24VDC), ss-CF8/6		1 pce
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Service indication

Art.-No.	Description	Euro	Qty
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104852	Additional price service indication, version Si (1-63 months)		1 pce
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Installation kits

Art.-No.	Description	Euro	Qty
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190300	Inst. Kit VL...MV, Flange DN25-CF8, with probe, stainl.st. or flat bottom tanks		1 pce
190693	Inst. kit VL..., exhaust, ss-CF8/6, ss-pipe 8/6x1mm, outdoors		1 pce
190690	Inst. kit VL..., exhaust, ss-CF8/6, ss-pipe 8/6x1mm, containment		1 pce

Stainless steel pipe

Art.-No.	Description	Euro	Qty
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421031	ss pipe, 1.4571, 8/6x1mm, customized length, max. 6m		1 pce
421033	ss pipe, 1.4571, 8/6x1mm, 6m rod		1 pce

Insect protection

Art.-No.	Description	Euro	Qty
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190699-06	Insect Protection f. Exhaust Termination KV 8, Stainl.Steel, 8mm Compression Fer.		1 pce
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VL 570

For double-walled horizontal cylindrical containments, tanks, sumps, etc.

Optional equipment:

- P: Weather-protected housing
- M: Digital Manometer
- S: Service display (preset to 12 months)
- Si: Service indication (adjustable 1 to 63 months)
- LE: Remote monitoring LOD with Ethernet module (eg. VL 570 M)



VL 570

Monitorable tanks:

- max. liquid pressure on tank bottom <= 540 mbar
- with a max. internal overlay pressure of 500 mbar
- Underpressure resistance of interstitial space: up to -900 mbar

Stored products:

Water-polluting liquids with a flash point > 60 °C (for Germany > 55 °C acc. TRBS and TRGS) where no explosive vapor-air mixtures occur

Installation:

outside Ex areas

Housing / IP rate / Temperature range:

Plastic box / IP 30 / -0 °C .. +40 °C  
Stainless steel / IP 54 / -40 °C .. +60 °C

Switching values in mbar:

Type VL	Alarm pressure	Operating pressure
570	> -570	< -700

SCAN ME



Pneumatic connections:

**S4+S6:** Hose connections for PVC hose 8/4x2 mm or 10/6x2 mm (only for pressure-less tanks)

**QV8/6:** Quick union for PA hose 8/6x1 mm (for tanks with up to 500 mbar overpressure)

**KV8/6:** Compression ferrule for copper pipe 8/6x1mm or PA hose 8/6x 1mm (for tanks with up to 500 mbar overpressure)

**PP8/6:** Polypropylene connection for PA hose 8/6x1mm or PTFE hose 8/6x1mm (for tanks with up to 500 mbar overpressure)

More options and accessoires  
at  
shop.sgb.de



New  
technical  
standard

## VL 570 PMMV

For tanks with inner overlay pressures, heated tanks, tanks storing liquids with a higher density than 1 g/cm<sup>3</sup> and/or tanks storing acids and lyes.

### Operating pressure:

ca. -700 mbar

### Optional equipment:

Si: Service indication

LE: Remote monitoring LOD with Ethernet module

### Monitorable tanks:

- Maximum liquid pressure on tank bottom <= 540 mbar
- Maximum internal overlay pressure of 500 mbar
- With solenoid valves for internal overlay pressures of max. 25 bar
- Underpressure resistance of interstitial space : up to -900 mbar

### Stored products:

Water-polluting liquids with a flash point > 60 °C (for Germany > 55 °C acc. TRBS and TRGS) where no explosive vapor-air mixtures occur, eg. heating oil, diesel, acids, lyes

### Installation:

Outside Ex areas

### Housing / IP rate / Temperature range:

Stainless steel / IP 54 / -40 °C .. +60 °C

### Pneumatic connections:

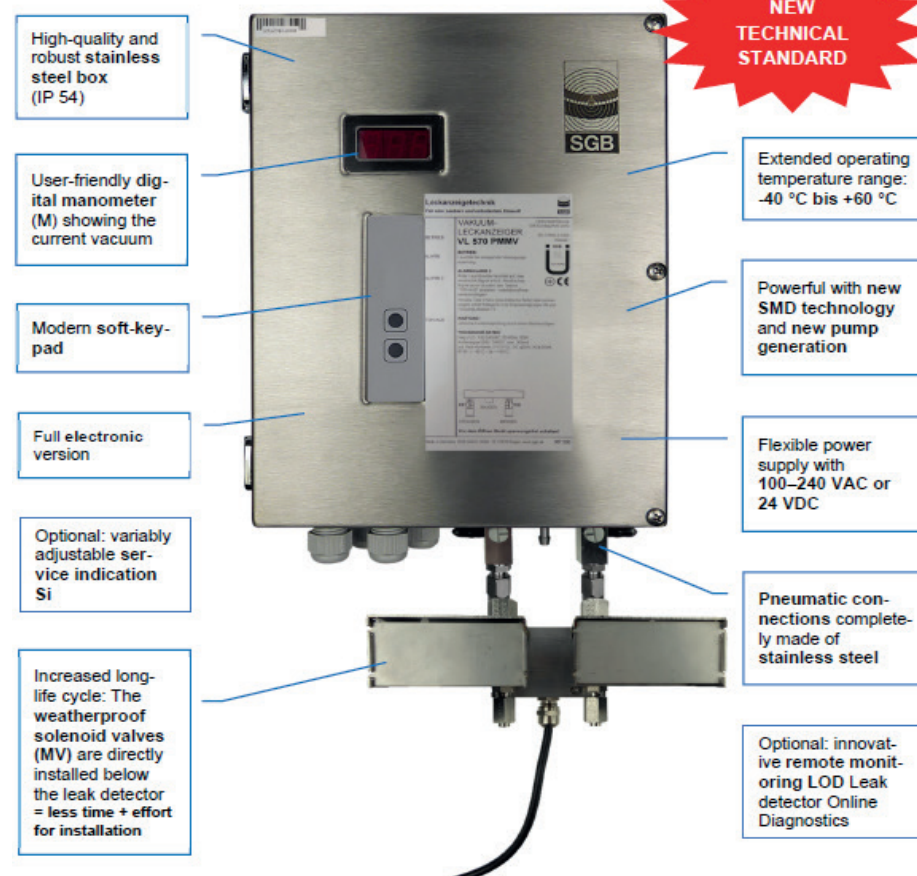
**VA-KV8/6:** Stainless steel compression ferrule for stainless steel pipe 8/6x1 mm or PA hose 8/6x1 mm



### Advantages of VL 570 PMMV:

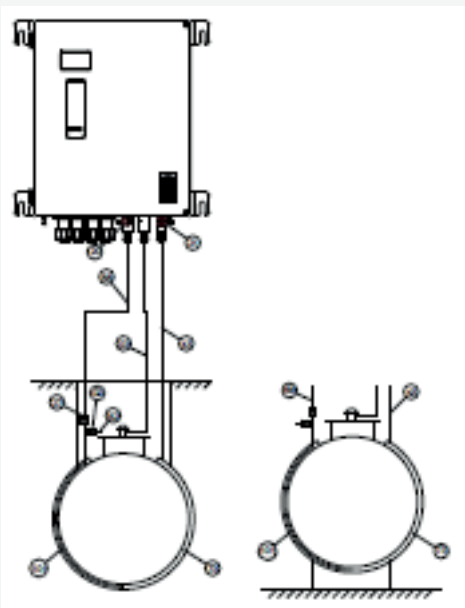
- > Temperature range leak detector now: **-40°C...+60°C**
- > Stainless steel housing (P)
- > New SMD technology and new pump generation
- > Digital manometer (M)
- > Flexible power supply: 100...240 VAC or 24 VDC
- > Storage temperature range up to 100°C as standard; higher on request
- > Weather-protected solenoid valves (MV)
- > Reduced installation effort due to direct installation of solenoid valves below the leak detector

## The new standard for the leak monitoring of tanks: VL 570 PMMV

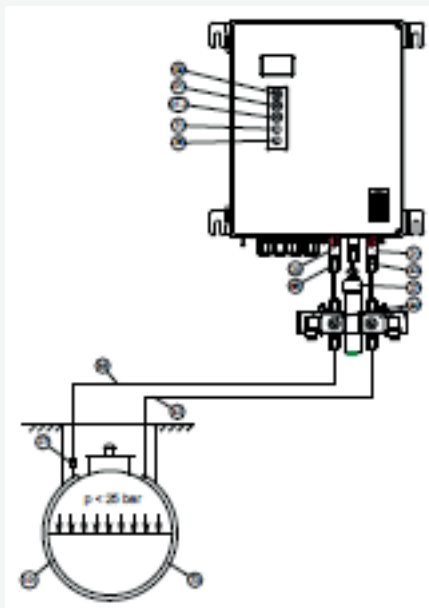


A Class 1 leak detection system according to EN 13160: Every leak – no matter in which of the bottoms – is indicated by an acoustical and optical alarm before the stored product can escape into the environment. The VL 570 PMMV thus fulfills the highest safety requirements in environmental and water protection according to European standards!

shop.sgb.de  
Inquire online  
now!



Horizontal cylindrical tank with a leak protection lining and suction line to the low point of the interstitial space



Pressurized tank



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



Or visit us at any time in our new B2B web shop:  
**shop.sgb.de**

Leak detector VL 570 PMMV Art.-No. Description Euro Qty



084571M1	Leak Detector VL 570 PMMV, ss-v, 100-240VAC 24VDC, ss-box, ss-FU6/4		1 pce
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Inst. kit solenoid valve Art.-No. Description Euro Qty



190290	Inst. kit solenoid valve, ss-v, suction + measuring (24VDC), ss-CF8/6		1 pce
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Service indication Art.-No. Description Euro Qty



104852	Additional price service indication, version Si (1-63 months)		1 pce
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Installation kits Art.-No. Description Euro Qty



190305	Inst. Kit VL...MV, 1"-CF8, with probe, stainless steel, for cylindrical tanks		1 pce
190693	Inst. kit VL..., exhaust, ss-CF8/6, ss-pipe 8/6x1mm, outdoors		1 pce

Stainless steel pipe Art.-No. Description Euro Qty



421031	ss pipe, 1.4571, 8/6x1mm, customized length, max. 6m		1 pce
421033	ss pipe, 1.4571, 8/6x1mm, 6m rod		1 pce

Insect protection Art.-No. Description Euro Qty



190699-06	Insect Protection f. Exhaust Termination KV 8, Stainl.Steel, 8mm Compression Fer.		1 pce
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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.



### Operation mode:

The notice of alarm mode activation is immediately transmitted to the LOD system and an automatic notification is given to registered addressees via e-mail. The LOD system will register multiple alarm notifications and issue repeated alerts until the cause of alarm is answered locally.

**There will be no more identification of alarms, unreported alarms, and local manipulation of the annunciator!** The reliability of the alarm retransmission and the audited reaction are guaranteed to a previously unknown level.

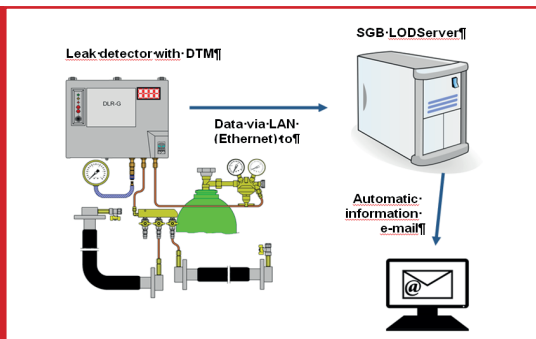
### System overview:

- 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 interstitial space
- 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 or ZD)
- General faults with electronics
- Status of an additional digital sensor (if connected to DTM)
- Activation of a potential-free contact (SGB-telemetry)

### PARTICULARLY SUITABLE FOR

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



## Service

### + Individualized 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 seminars

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 overpressure leak detectors, underpressure 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 form on [www.sgb.de/en/seminars](http://www.sgb.de/en/seminars)

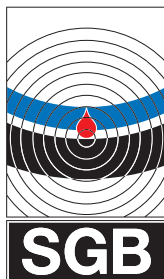
### The theoretical part deals with:

- 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

### With practical demonstrations:

- examination of leak detectors
- fault detection, troubleshooting
- exchange defective parts
- function control
- leak test





## Contact and Imprint

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