

LEAK DETECTOR TYPE “VAKUMATIK IIIF”

VACUUM PRINCIPLE

Field of application:

- The leak detector is applicable for double-walled tanks (providing the monitoring space is suitable for the connection of the leak detector).
- Tanks, which have been monitored by liquid controlled leak detection so far, can be monitored via the version IIIF in the future. A certain amount of the liquid in the monitoring space has to be removed.
- The viscosity of the stored liquid has to be considered (height and diameter of the tank)

Stored liquids: Water-endangering liquids regarding approved listing, with a flash point $> 55^{\circ}\text{C}$

Approval: General Design Permit (DIBT) No. **Z-65.22-2**
Tested by TÜV Nord, Hamburg

Assembly place: Within dry, frost-protected area, or outside into a protective enclosure.
It is not allowed to install the leak detector in an ex - zone!

Function: The leak detector works on the vacuum principle.
Visual and audible alarms are triggered by a pressure increase as a result of leaks in the tank walls, above or below the liquid level.
The vacuum pump draws air from the monitoring space through suction line. Normally, the exhaust air is pumped back into the tank. Others constructions are using a separate exhaust line with an additional liquid barrier.
Small system leakages are balanced by the pump automatically.

Switching values: in mbar

Pump “off”	P_{Poff}	-450
Pump “on”	P_{Pon}	-375
Alarm “on”	P_{Aon}	-325
Alarm “off”	P_{Aoff}	-410

(All values are approximate)

Note: Detailed data in the documentation / assembly instructions.

Standard: EU Standard for Leak Detection Systems
Class 1- EN 13160 part 1 to 7

