

LEAK DETECTOR TYPE V90 – Version “N”

VACUUM PRINCIPLE

Field of application:

- The leak detector is applicable for single-walled tanks, with a lining system and a suction line to the bottom of the tank.
- It is applicable for double-walled tanks with the suction line to the bottom of the tank.
- The viscosity of the stored media is to be considered (dimensions of the tank).

Stored liquids: Water-endangering liquids regarding approved listing, also with a flash point $\leq 55^\circ \text{C}$, temperature class T4, explosion group IIA, (IIB-option)

Approval: General Design Permit (DIBT) No. **Z-65.22-399**
Tested by TÜV Nord, Hamburg

Assembly site: The leak detector fulfils the requirements for the Ex protection guidelines temperature class T4 and explosion group IIA/B, but must be installed outside of Ex zones, in dry, frost-protected and well ventilated areas.

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. Small system leakages are balanced by the pump automatically.

Switching values: in mbar

Pump “off”	P_{Poff}	-80
Pump “on”	P_{Pon}	-65
Alarm “on”	P_{Aon}	-34
Alarm “off”	P_{Aoff}	-50

(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

