

LEAK DETECTOR TYPE V90 – Version “H”

VACUUM PRINCIPLE

Field of application:

- The leak detector is applicable for double-walled tanks, for double-walled bottoms, or flat base tanks (providing the monitoring space is suitable for the connection of the leak detector).
- The viscosity of the store media is to be considered (height and diameter of the tank).
- It is also applicable for double-walled pipes with max. operating pressure of 6bar for liquids with flame point $>55^{\circ}\text{C}$, for flame point $<55^{\circ}\text{C}$ only for pipes operated at ambient pressure.

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 ; Z-65.25-400**
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}	-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

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