

Leak Prevention Technology

For a clean and protected environment



EN 13160: Comparison of classes I, II and IV

	Class I Pressure leak detector with air/gas in the interstitial space	Class II Leak detector with liquid in the interstitial space	Class IV Tank content measuring system
Does the leak detection system rule out product contamination in the “inner wall” leakage case?	☺ YES Only air/gas enters product storage space	☹ NO Leak detection fluid enters product storage space	☹ NO With high groundwater levels
Does the leak detection system exclude environmental pollution in case of leakage “outer wall”?	☺ YES Only air/gas escapes from the interstitial space into the environment	☹ NO Leak detection fluid enters the environment	☹ NO Stored product leaks into the environment
Is a functional test possible?	☺ YES by ventilating the system directly at the leak detector	☺ YES by taking flow measurements at a valve in the dome shaft	☹ NO no equally simple functional test possible
Can a functional test be done without access of the tank?	☺ YES	☹ NO	☹ NO
Is the continued operation of the tank during the functional test possible?	☺ YES	☹ CONDITIONALLY only if the tank is situated beyond the refuelling area	—
How high is the environmental impact upon de-commissioning?	☺ LOW electronic waste	☹ HIGH High expenses for the professional disposal of the leak detection fluid by experts	☹ MODERATE electronic waste
Can internal system failures with regard to the tank be excluded?	☺ YES Only leaks are detected on the tanks	☹ NO Risk of gelling through the mixture of incompatible fluids and the insufficient flow of crystalline eliminations because of incompatible materials. High subsequent costs possible for a tank exchange.	☹ NO Loss of product can be very high before the alarm is triggered. High decontamination costs are possible