

Propper Vapor Line® Integrator: a breakthrough in the safety level of sterilization monitoring

Product Description

The Vapor Line® integrator (Fig.1) is a chemical indicator for monitoring the essential conditions of sterilization processes - steam, temperature, and time.^{1,2}

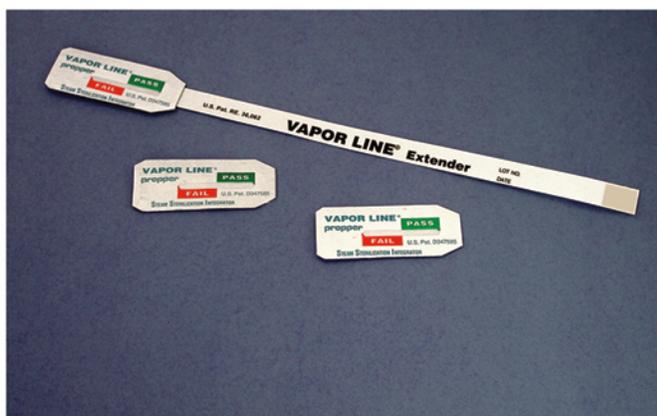


Fig. 1. The propper Vapor-Line Integrators.

The integrator is designed to show equivalence in performance to biological indicators. During sterilization, the dark colored bar migrates along a paper wick with PASS and FAIL areas, indicating whether the sterilization conditions were met. The PASS result assures that conditions in the sterilizing pack were sufficient to kill even the most resistant forms of microorganisms plus an "overkill period" - a safety zone beyond the spore death curve for an additional level of sterilization security. The Vapor Line integrator provides a clear result immediately after sterilization without color interpretation guesswork (Fig.2 and 3).



Fig. 2. Result: PASS



Fig. 3. Result: FAIL

US Patent Numbers: 5,158,363; D 347,585

The stable dark color of the integrator's bar doesn't revert back - you can keep it as proof of correct sterilization exposure as long as you need it. Chemicals used in the Vapor Line integrator, are sealed to ensure safety.

The integrator is designed for gravity displacement and pre-vacuum sterilizers operating in the 250°F - 272°F temperature range. Being equivalent in performance to biological indicators, the Vapor Line integrators can be used in all corresponding situations: with wrapped or unwrapped instrument sets, inside fabric packs, and as a monitoring component in the process challenge devices, such as single use PASS/FAIL™ Steam Test Packs, Quick Challenge® Test Packs, and reusable Vapor-Line PCD* (Fig. 4,5,6).



Fig. 4. Quick Challenge Test Pack



Fig. 5. Pass/Fail Challenge Pack



Fig. 6. Vapor Line PCD



Fig. 7. Vapor Line Extender

Vapor Line integrator with extender (Fig.7) provides an extra level of sterilization safety, because the integrator can be easily pulled out of the pack after pack opening. There is no need to search for an indicator in the center of the pack and compromise sterility. A process indicator at tip of the extender allows immediate identification that the pack has been sterilized.

* Presently not for sale in USA. FDA 510K is pending