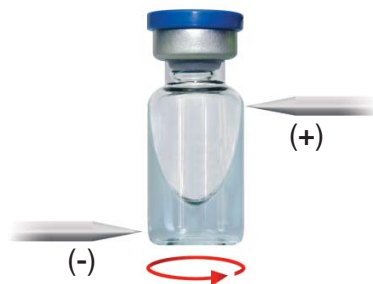


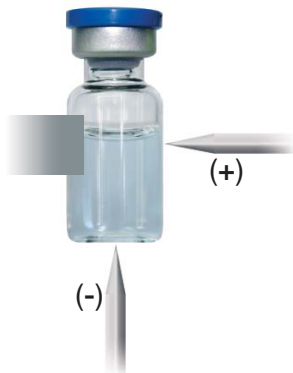
High Voltage Leak Detection Modules

Container closure integrity is one of the major concerns when it comes to patient's safety. In parenterals productions various technologies are used today – mainly standalone machines. Seidenader now integrate the benefits of particle and cosmetic inspection with the advantages of high voltage leak detection. Dedicated modules are checking all critical zones in vials, ampules and syringes.

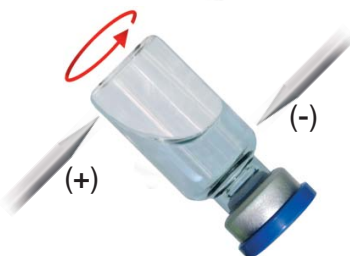
Seidenader Vial-HV:



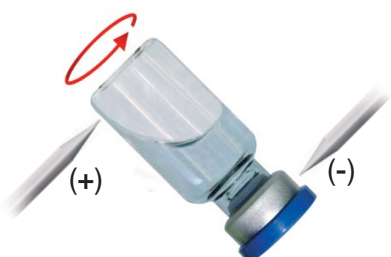
Sidewall/heel inspection:
liquid in rotation
in standard material handling



Bottom inspection:
vial held from side – no rotation
in standard material handling



**Shoulder, neck
and cap inspection:**
vial in rotation in optional
handling system

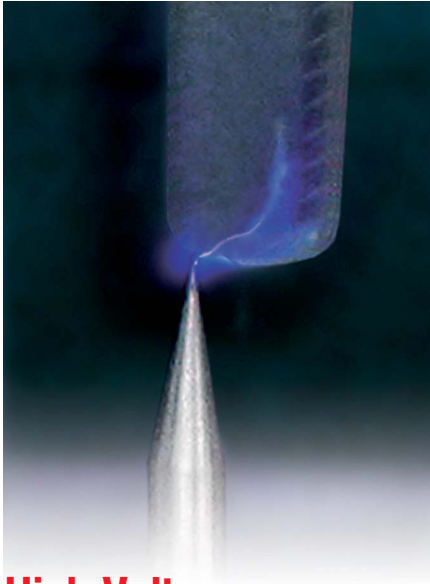


Cap inspection:
vial in rotation in optional
handling system

Advantages

- Inspection of the entire surface or only in selectable critical zones
- Inspection even below the capped area
- Very compact design
- Fully integrated in Seidenader inspection machines VI and MS
- One operator interface for camera and high voltage check





High Voltage Leak Detection

Technical Data:

- Speed up to 600 units/min
- Voltage range: 10 – 30 KV
- Frequency: 500 Hz
- Power consumption: ca. 500 W
- Max. energy absorbed by product per inspection station: < 0.1 J/inspection

Since we are constantly working on the improvement of our high-quality machines, the texts, illustrations and figures on these pages are illustrated only and not binding.

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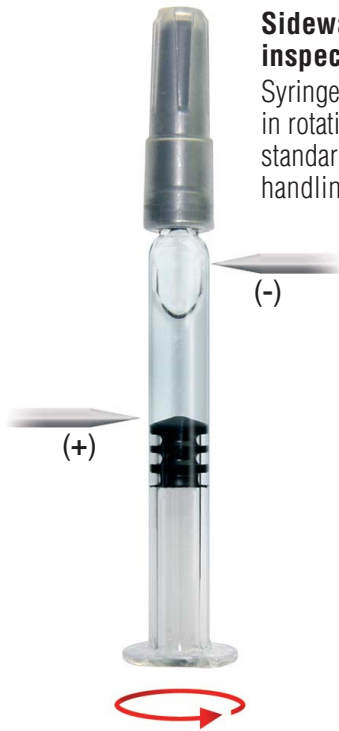
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Seidenader Syringe-HV

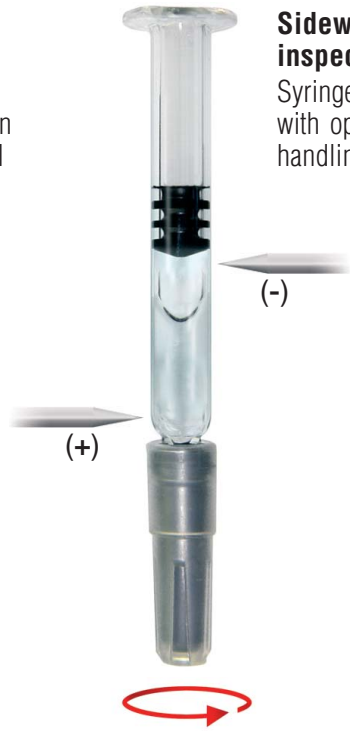
Advantages:

- Inspection of all areas touching the liquid
- Detection of needle shield perforations in filled and empty syringes – even if covered by rigid needle shields
- No plunger movement
- Very compact design
- Fully integrated in Seidenader inspection machines SI and VI-S
- One operator interface for camera and high voltage check
- Detects needle shield perforation also in empty syringes



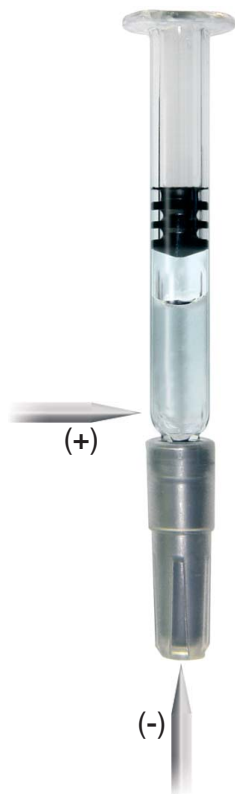
Sidewall inspection 1:

Syringe and liquid in rotation – tip up, in standard mechanical handling



Sidewall inspection 2:

Syringe in rotation, with optional handling system



Needle shield inspection:

no rotation, in standard mechanical handling

