

In-line Vials and Bottles CCI Tester
Non-Invasive, Non-Destructive, 100 % in-Line
Integrity Inspection at high production speed.



HIGHLIGHTS



- Autotest in real time
- Easy to validate
- CFR 21 part 11 compliance and 4.0 full integration
- Quick format changeover
- High installation flexibility
- Automatic Drying System, no testing chamber contamination



TECHNICAL FEATURES



Container Application: Vial and Bottles
(Glass + Plastic)

Products: Semi-solid, Powder, Lyo, Liquid

Container Dimensions: Standard Vials and Bottles
from 2 to 250 ml

Speed: Up to 600 cpm

Technology: CCIT

Inspection Features: Non-Invasive, Non-Destructive
CCIT based on Vacuum & Pressure Decay Method

Inspection Capabilities: Microleaks detection

ADDITIONAL PLUS



- Full batch control testing: **fast, reliable and repeatable**
- Testing of **all nominal production line speed**
- **MES** (Manufacturing Execution System connection) allows remote machine data exchange & download
- **Statistical Process Control** reduces deviations for a better yield control
- **Real time display** of testing cycle diagrams, statistical raw data
- **Easy, quick and safe remote access**
- **AHE (Automatic Head Exclusion)**
- **Easy cleaning**

TECHNOLOGY



Container Closure Integrity Testing is a non-destructive measurement technology based on the following testing methods:

- **Vacuum Decay Method**
- **Pressure Decay Method**

Measurement system comprises applying a pressure differential into an airtight testing group enclosing the container.

The test objective is to detect container leakages by measuring the reached pressure level as well as the pressure change over test time.

QUALITY ASSURANCE



Equipment test method refers to:

- Approved industry standard "**ASTM F2338-09**": "Standard Test Method for Non-Destructive Detection of Leaks in Packages"
- United States Pharmacopoeia – **USP General Chapter «1207»** "Packaging Integrity Evaluation"
- EU Guidelines to **GMP Medicinal Products for Human and Veterinary Use – Annex 1** "Manufacture of Sterile Medicinal Products"
- **PDA Technical Report No. 27** "Pharmaceutical Package Integrity"
- **FDA 21 CFR part 11** as well as **EMA Annex 11**