STEINFURTH®

IPPS IM (ESCR - Tester)

For accelerated Environmental Stress Crack Resistance Test on plastic closures

Wherever beverage packages are made or used, pressure and leak tests are a vital part of quality control. The Steinfurth IPPS-IM is a powerful tool for testing pressure resistance and sealing properties of closures under adverse conditions such as elevated temperatures or exposure to chemicals. The IPPS-IM performs the so-called “Leak Test” (Environmental Stress Crack Test on Closures). Up to 72 samples can be tested simultaneously.

INDUSTRIAL PHYSICS

Protecting
Product Integrity

Operation

The samples consist of closures screwed onto PET preforms featuring the original threads. Before any test, these PET preforms must be fitted with special pneumatic quick couplings. The sample preforms are fitted to the work benches with their closures on top. First, the IPPS-IM pressurizes the samples with a defined testing pressure, after which a shut-off valve isolates the sample from the pressure source. Afterwards, the pressure inside each sample is constantly monitored and recorded. If the pressure inside a sample drops under a defined limit (permitted pressure drop), the sample will be re-pressurized by the shut-off valve opening for a short period, after which it will be isolated again.

Benefits

- **Defined pressure generation with linear passages or defined pressure jumps**
- **Easy implementation of standard tests**
- **Automated pressure monitoring**
- **Flexible programming**
- **Menu driven operation**
- **Pressure outlet with water separators**
- **Full colour graphical touch screen**
- **Measuring data export over Ethernet-connection and FTP-Server**

Technical Specification

Pressure range	0...10 bars
Pressure source	12 bar
Number of samples	1-72 (up to 9 benches)
Resolution	0.1 bar
Media	Neutral gases

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INDUSTRIAL PHYSICS

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