

Integrity tester for vials

Non-destructive leak testing



The **ASC 7400F5** is a self-contained automatic leak tester for vials. It is suitable for manual operation, as well as semi- or fully automated inspection stations. It allows a quick, clean, dry inspection of the vials without altering these, without any risk of operator influence. 5 Vials are tested simultaneously for maximum efficiency (a single vial version is available as well).

User-friendly and ergonomic

A large high-resolution touch screen provides a clear user interface and allows a quick intuitive understanding of the instrument. Loading and unloading vials is very easy, the instrument provides the force required for the hermetic sealing of the test chamber.

The **ASC 7400F5** is designed to replace destructive integrity testing, while greatly improving efficiency. Its high accuracy allows testing at the same or even finer levels than the traditional methylene blue dye method. It quantifies the degree of integrity by actually measuring a value. The measurement is linked to national standards and allows full traceability.

Benefits

• Non-destructive, fast

- ✓ All tested (and passed) vials can return to production line to be sold => **yield improvement and cost saving**
- ✓ No need for disposal of tested vials and product => **cost saving**
- ✓ 5 vials tested in <10 seconds: higher test frequency possible => **better process control**
- ✓ 100% test possible on critical batches => **zero risk possible**
- ✓ 100% test possible on rejected batches => **allows saving of good products**

• Measurement

- ✓ The measured value is **calibrated to a standard**, linked to national standards
- ✓ Test results are **not dependant on the operator** (attention, eyesight, concentration)
- ✓ Objective comparison against reject level => **no interpretation required: PASS or FAIL**
- ✓ SPC (Statistical Process Control) possible => allowing **closer process monitoring & quicker intervention** in case of drift

• Traceability of results

- ✓ Test results are stored, output as csv file or pdf batch report

• Implementation assistance

- ✓ Test campaigns, correlation studies to existing methods, standards
- ✓ Calibrated Reference vials with certificate for process qualification
- ✓ QI/QO/QP

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Pressure variation method

This measurement allows the testing of the filled vial integrity. The method involves (de)pressurising the chamber in which the vial has been inserted, isolating it and measuring the pressure variation over time. The variation of the pressure indicates the level of integrity.

Measurement cycle

- Insertion of vials
- Closing of test chamber
- (De)pressurisation
- Stabilisation (from thermal gas instability)
- Test (measurement of pressure variation)
- Results display
- Release (return to atmospheric pressure)

Standard test pressure: -85 to +85 kPa (programmable)

Higher pressure capacity available on request.

Options and ancillaries

- USB port
- Ethernet port
- Batch report
- Remote control box
- Remote Unlock box (remote unlock on Fail)
- Remote display
- Printer
- Label printer
- Custom label (logo, operator ID, batch Nr)

Ancillaries

- Filtration kit
- Purification unit
- Vacuum pump
- Fittings, tubing etc.
- Calibrated leak vials



Bar code reader



3-colour status light column

- Mobile workstation
- Low-noise air compressor
- Storage solutions
- Additional test chambers

Specifications

Dimensions

855 x 540 x 760 mm (w x h x d)
Weight : 85 kg

Communication

High resolution 5.7" touch screen
Status lights

Power supply

24 V DC/ 5 A (adapter supplied)

Air supply

Clean and dry air, quality to ISO 8573-1
-90 and +800 kPa

Temperature

Operation : +15°C to + 25°C
Storage : 0°C to 60°C



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