

TOP 10 REASONS TO CHOOSE SCIEMETRIC FOR LEAK TESTING

Introducing the **3520** Series

Supply

Pilot

Bleed

Exhaust

Unit Under Test

Pass

Fail



sciometric®



1. ACCURACY - It's simply more accurate, not just a little but a lot more accurate

Every component of the 3520 Series was designed to optimize test accuracy. Advanced electronics, pneumatics and pressure sensors work with breakthrough software to catch the leaks other systems miss. We have already been named vendor of choice on leak by a number of manufacturers in side-by-side comparisons based on our ability to deliver exceptional accuracy.

- Pressure repeatability down to 1/1,000,000th of a psi
- Electronic pressure regulation stable to <10 ppm
- Reduces the effect of variations in the plant environment:
- Built-in part and ambient temperature inputs allow compensation of temperature variations, e.g., part is in a cold warehouse and delivered to a warm factory floor
- Absolute pressure sensors eliminate sensitivity to dynamic atmospheric pressure variations such as opening/closing of bay doors
- Precise and ultra-accurate pressure regulation
- Design minimizes hose length to decrease overall test volume and improve test accuracy
- Signature analysis software measures hundreds of data points in the leak curve. Find more defects because you can set tighter pass/fail limits.

2. SPEED - Faster cycle times reduce bottlenecks

The 3520 Series delivers stable test pressure in amazingly fast cycle times for the smallest to very large part volumes.

- Built-in high throughput fast fill electronic regulator allows for fill rates of up to 300 SLPM.
- Uses dual programmable electronic regulators to optimize fill times and also ultra-precise pressure hold
- The system's accuracy and waveform processing software ensure the best use of stabilization and measurement times, allowing it to find leaks faster, reducing wasted cycles.

3. Combine leak testing with another test

Sciemetric technology enables you to reduce costs by combining leak with other tests in a single station using the same sigPOD controller. For example, monitor a pressing operation and then conduct the leak test to check seal integrity.



4. Uniquely flexible and versatile

- Supports multiple test types and pressures: pressure decay, mass flow, occlusion testing, volume testing, burst testing
- Tests part volumes as low as 1 cc to over 400L with high flow models
- Can manage tests for different part types and models on the same unit

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5. Plugs into the industry's best birth history system

Through the sigPOD controller or PSV software, tens of thousands of test records are available for review on the system using built-in control charts, histograms and other SPC tools. For more advanced analysis, permanent storage or integration of the data with other tests along the assembly line, Sciometric offers QualityWorX. It is the ultimate traceability database that stores the complete birth history record for every serial number—including waveforms, results and limits—for the leak tester and/or any system on the line. Web reporting and visualization and analysis tools provide faster root cause identification and process optimization.

6. Fits with an in-process test strategy

Sciometric's leak testers can be integrated into a line-wide, standardized in-process test strategy. Through our commonality approach we provide a single system that evaluates quality at different stations using the same standard, universal hardware and software interface. This reduces learning curves for operators and engineers while providing a consistent, process signature-based measurement of quality.

7. Industry's most advanced signature analysis software

The standard Process Signature Verification (PSV) software is flexible while enabling more accurate measurement and faster pass/fail decisions. Be up and running with a multistate leak test in a few minutes or use advanced screens for complete sequence programming to handle more demanding custom leak test. Sciometric also provides custom applications to meet your requirements.

8. Designed to be easy to use and maintain

Many features were built into the 3520 Series to facilitate its usage and maintenance. It has Ethernet connectivity and remote setup capabilities. It has a self-test mode that does not require any external connection changes and automated calibration. Its compact design (particularly for high flow applications) is in a robust, IP65 enclosure. And if necessary, the pneumatics can be exposed and serviced by removing just four screws.

9. Access to manufacturing test specialists

Unlike many leak test vendors, we have not been limited with experience in a single test application on the assembly line. In the thousands of lines we've walked and the equal number of applications we've delivered covering a very broad range of stations, we have learned a lot about how to balance quality and productivity. Put one of our experts to work on your leak or other quality challenge.



10. Can be delivered in a turnkey test station

The Model 3670 Leak Test Station enables manufacturers to implement Sciometric's innovative 3520 Series leak test technology in a cost-effective, full turnkey solution. The 3670 can test up to four channels for all the types of leak test the 3520 Series can perform: pressure decay, flow, helium, vacuum, and more.

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