

# *VeriPac Delta* – the Standard for Practical, Repeatable and Globally Harmonized CCI



VeriPac Delta is a deterministic container closure integrity platform designed for organizations requiring reliable, repeatable leak detection that can be standardized across multiple facilities and packaging formats. By integrating both Vacuum Decay (ASTM F2338) and Pressure Decay (ASTM F2095) in a single system, Delta ensures the test method aligns with the actual failure mode—minimizing method mismatches, reducing investigation cycles, and enhancing validation confidence.

*VeriPac systems provide reliable, repeatable, and deterministic leak detection in accordance with ASTM F2338. They support global method harmonization, accelerate validation, reduce the risk of batch investigations, and drive continuous improvements in sterility assurance—without destroying samples.*

## Why Organizations Standardize on Delta:

- Repeatable PASS/FAIL clarity independent of operator or site
- Works for both liquid & dry products without re-platforming
- Faster method transfer and validation across global operations

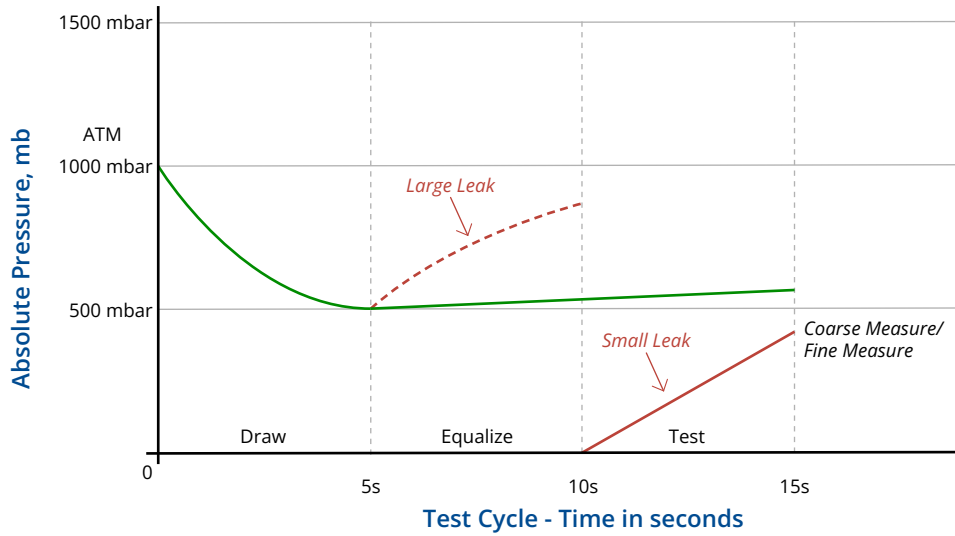


## Technologies

Dual measurement modes allow Delta to match the physics of the failure mode.

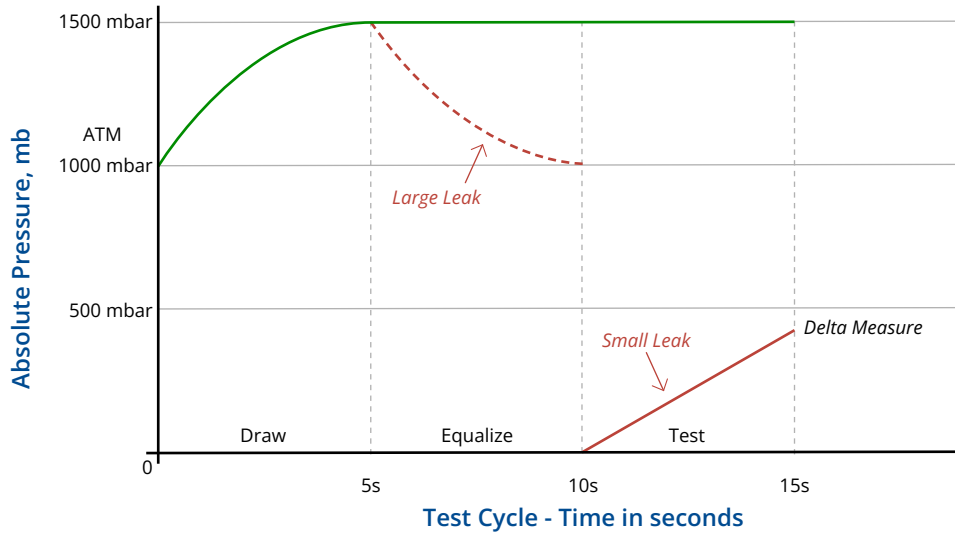
- Vacuum decay → micro-channel / stopper / seal interface defects
- Pressure decay → gross leakage / structural or mechanical breach
- Sensitivity: “Detects down to 0.2 ccm (approx. 5 microns).”

## VACUUM DECAY



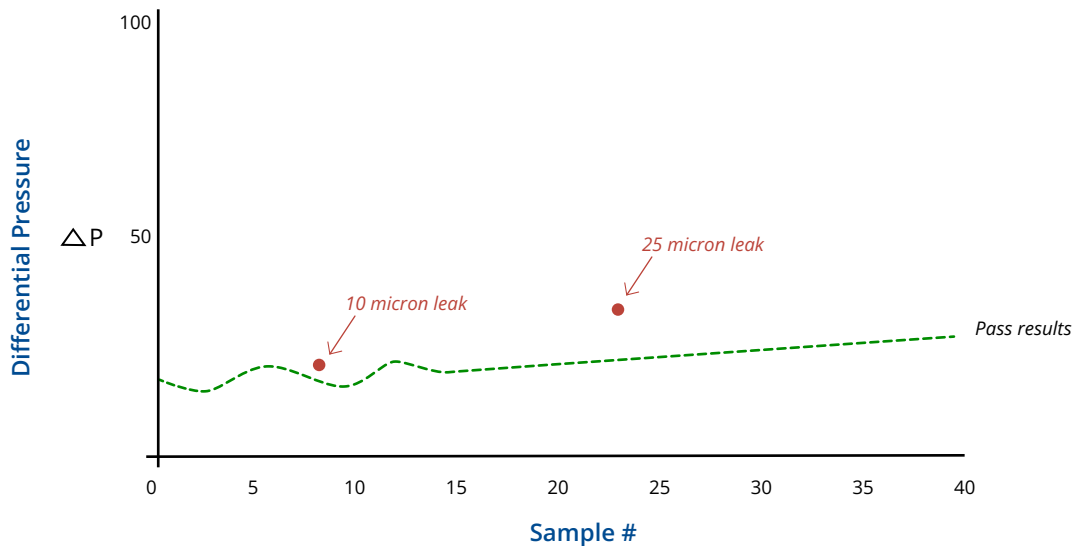
4× Signal-to-Noise Ratio (SNR)

## PRESSURE DECAY



4× Signal-to-Noise Ratio (SNR)

## TEST RESULTS



# Specifications

<b>APPLICATION</b>	<ul style="list-style-type: none"> <li>◦ Package Integrity Testing</li> <li>◦ Container Closure Integrity Testing</li> </ul>
<b>PACKAGE TYPE</b>	<ul style="list-style-type: none"> <li>◦ Empty &amp; prefilled syringes</li> <li>◦ Liquid filled &amp; lyophilized vials</li> <li>◦ Filled &amp; sealed bottles &amp; cups</li> <li>◦ Ampoules</li> <li>◦ Non-porous pouches</li> <li>◦ BPC (Bulk Pharmaceutical Chemical) containers</li> <li>◦ API (Active Pharmaceutical Ingredient) containers</li> <li>◦ BFS containers</li> <li>◦ Ophthalmic dropper bottles</li> </ul>
<b>TEST CONFIGURATION</b>	Offline laboratory
<b>TEST SYSTEM*</b>	High resolution absolute transducer
<b>TECHNOLOGY*</b>	Vacuum Decay and Pressure Decay
<b>RECOGNIZED TEST METHOD</b>	Vacuum Decay ASTM F2338-24, referenced in USP <1207> and Pressure Decay ASTM F2095
<b>OPERATOR INTERFACE</b>	Touch screen
<b>TEST SENSITIVITY</b>	Down to 0.2 ccm (approximate hole size 5 micron)
<b>TEST RESULTS/RESOLUTION</b>	PASS/FAIL result in mBar
<b>DATA COLLECTION</b>	Collects test data for view on HMI touch screen and MES data integration
<b>TESTER DIMENSIONS</b>	12" W - 18.5" D - 10" H
<b>WEIGHT</b>	33 lbs.
<b>POWER</b>	100-240 VAC; 50/60 cycles
<b>AIR</b>	90 psi required only for automatic test chamber
<b>OPTIONS</b>	Validation Qualification Package (IQ/OQ/PQ) Microcalibrator Flowmeter

\* U.S. Patents 5,513,516 6,513,366 8,544,315

\*\*Test results may vary according to application and package specifications.