Automation Product

Helium Leak Testing
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Description

Helium Leak Testers are used to measure fine leaks.

Helium is utilized as the test medium along with a detector to sense any presence of the gas. Presence of the gas in a known concentration equates to a leak value.

A concentration of helium is typically filled in the cavity of the Device Under Test (DUT). The amount of helium which escapes through the DUT is sensed by means of a helium detector.

The following techniques are deployed for cycle time improvement:
• Dual stage vacuum to evacuate the Device Under Test and the test chamber prior to filling with Helium resulting in improved cycle times.
• Measurement of pressure differential between the helium pressurized Device Under Test and the test chamber under vacuum.

Capabilities

• High test pressure:
• 10 MPa (1450 psi)
• Leak Rate: 0.01 SCCM
• Cycle Time: part dependent:
• 3 - 10 seconds
• Leak detection
• Recover and reuse Helium

Tests Performed

• Gross Leak Test
• Fine Leak Test

Leak Detection Method

• Use of Want
• Check detection on overall device under test for reduced cycle time

Contact ATS directly for application review or for product specific applications beyond the scope of this document.

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