



Issue: *Leak Checking—testing parts faster and more accurately*

Solution: *M Series meters with rapid response time and pressure compensation*

In many manufacturing firms it is necessary to have a fast, accurate and reliable method for leak checking components. Alicat's measurement principle can help these applications run even faster. Because our mass flow meters are measuring the pressures and the temperatures of the gas we are constantly compensating for the effects of pressure on temperature. At low flow rates this relationship between pressure and flow can become relatively large, so we also can assist in reducing the errors normally associated with pressure decay leak testing.

There are many ways to design a leak test system and the standard Alicat product line assists in many formats from fully automated to bench-top quality lot checking. We can also help in systems where mass spectrometry appears to be the only solution. Using our 0.5SCCM full scale devices, with helium as the media, can mimic high pressure, low flow test parameters. This is due to the small molecular size of helium as compared to air or nitrogen. For help in finding the gas and pressure appropriate for your particular application, please contact our engineers at info@alicatescientific.com.

Here is one method for leak testing parts.

The most popular models for this use are:

M Series Meters: M-0.5SCCM-D /5M
M-500SCCM-D /5M

