

## Even Faster (and Simpler) Leak Checking

Fast and accurate leak checking can be a complicated process requiring a rather complex setup. When the Device Under Test (DUT) is subjected to a constant pressure within a closed system, any resulting flow is a direct measure of the DUT's leakage. This test requires both stable pressure control at the DUT and accurate flow measurement to test for leakage. Stable leakages are best revealed and measured when the meter generates minimal pressure drop, the frictional resistance that the device introduces into the gas line.

For years, **Alicat Scientific** has provided two-unit leak checking systems using a **PC3-Series** remote sensing pressure controller to maintain the required test pressure at the DUT and an **M-Series** mass flow meter to measure the leak rate.

Now, Alicat introduces the **Whisper** series of mass flow meters and controllers. With full-scale pressure drops as low as 3.6 mbar (0.052 psid) and turned-down pressure drops as low as 0.018 mbar, the **Whisper** allows precise and responsive control with minimal frictional resistance.

For leak checking smaller test volumes, such as valves or sensors, a single **MCW-Series** mass flow controller that is set to control for pressure will maintain a constant pressure at the DUT while providing accurate mass and volumetric flow readings in real time. Configured this way, the **Whisper** serves the functions of both a pressure controller and a mass flow meter in one device. **Alicat's Whisper** now makes leak checking for small volumes even faster...and simpler.

### Leak Checking Setup with Whisper



### Leak Checking Setup with Alicat Pressure Controller and Mass Flow Meter

