

Sentinel C-20 - Cyclone

APPLICATION BULLETIN #130A

June 6, 2002

High-Speed Part Presence or Integrity Testing

Fast cycle times

High-resolution pressure detection

High-flow pneumatics

High cycle-life valves

Low-heat generation pneumatics



High-speed assembly machines require a quick way to verify that all the proper components were correctly assembled. If all the proper components create a closed container with sealable openings, a rapid pressure-test frequently verifies that all the components are present or that sufficient flow escapes the part. This is not a fine leak test. It is a quick integrity test. The following features of the Sentinel C-20-Cyclone make the test successful.

- **High-flow pneumatic manifold** - Gets large quantities of air into and out of the part very quickly (5 times faster than standard instruments)
- **Pilot-operated test valves** – Eliminates electronic solenoid valves that add heat to the test circuit when operated at high-cycle rates
- **Proven high life-cycle valves** - Reduces maintenance with extended life valves that operate for over 10M cycles

- **Twenty-four bit A/D converter** - Measures pressure changes of less than 0.0001 psi within 0.05 seconds to quickly verify the integrity of the container
- **High-speed software** - fast part-to-part cycle rates of under 0.4 second meet assembly machine cycle times with timer increments of 1/60th second
- **Pressure ranges of 15 and 100 psi**

High-resolution pressure measurement, fast part fill and exhaust, and high-cycle life valves make the Sentinel C-20-Cyclone the most economical instrument to perform product integrity tests.



Cincinnati Test Systems, Inc.

Member of TASI - A Total Automated Solutions Inc. Company

5555 Dry Fork Road, Village of Cleves, OH 45002 • Tel. 513-367-6699 • Fax 513-367-5426

Website: www.cincinnati-test.com • E-mail: sales@cincinnati-test.com