

# High Pressure Audit Leak Test & Data Logging System

## Series 30 Unit



The system shown is a quality control audit leak test facility with data logging for a brass product. There is a range of product sizes and shapes that are tested using interchangeable tooling inserts that interface with a common nest. The product is loaded into a drawer style fixture and moved into the test area manually, the leak test is fully automatic.

The leak test uses high pressure nitrogen inside the product with the Nolek S9 leak test instrument using a vacuum chamber around the part and detecting pressure rise in the chamber outside the component. To ensure that the instrument is not damaged by a grossly leaking part an initial low pressure test is performed, the part must pass this test before the high pressure test is carried out.

The test results are fed back into a PC for analysis with batch data, part number, die number and other parameters logged.

- Brass cast product (7 variants)
- Self guarding drawer fixtures
- Nolek S9 Leak Test Instrument with fixture control and PC interface
- TQC Series 30 leak test technology
- Leak test uses  $-0.2\text{bar}$  vacuum externally and  $34\text{ bar}$  Nitrogen internally
- An air leakage limit of  $50\text{mm}^3/\text{sec}$
- Leak test time approximately 25 seconds



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