ZELTWANGER

LEAK TESTING WITH TRACE GASES

HELIUM & HYDROGEN

LEAK TESTING WITH HELIUM

Non-toxic, odorless, and easily detectable - the inert gas helium offers numerous advantages. It occurs only in low concentrations in atmospheric air and does not react with other materials. This enables quick testing and finding even the smallest leaks.

Low cost of testing Also for large leaks Easier implementation of

MF Mass flow

testing systems Available modules RD Gauge pressure RD/GP Gauge pressure with bell testing RD/DF Gauge pressure with flow DD Differential pressure SD Stagnation pressure

Helium Low occurrence in environment Smaller leak rates measurable Unaffected by temperature and

volume changes

Available modules IV Integral vacuum test SP Sniff test **AK** Accumulation test

MORE SAFETY FOR THE TECHNOLOGIES OF THE FUTURE

For many products, tightness is paramount for their functionality and reliability. ZELTWANGER has made it its business to develop customized, comprehensive, and demand-oriented leak testing concepts for its customers. Take advantage of our expertise from a single source: from the test concept to final assembly.

APPLICATION AREAS FOR LEAK TESTING WITH TRACE GASES



comprehensive tightness and functional testing for reliable quality assurance. Our customers are from all industries in which proven tightness is decisive for success.





ZEDcell: Maximum flexibility at the highest technical level - for assembly, robotics, leak testing, and laser applications

MODULES FOR LEAK TESTING WITH TRACE GASES



INTEGRAL VACUUM TEST

Application: in production environments

The test item is placed in a vacuum test chamber and filled with test gas. If there is a leak, the test gas will be leaking out of the test item into the test chamber where it is measured by the leak detector.

- + Very high sensitivity
- + High throughput
- + Easy to integrate into the production line
- + Easy to calibrate
- + High repeatability



SNIFFING TEST

Application: for leak localization of pressurized parts

The test item is pressurized with test gas. Then the sniffer probe is placed around the part. If there is a leak, the leak detector will detect the escaping test gas and determine the location of the leak.

- + Localization of the leak
 - + The test object does not need to be emptied in most cases - or at least not entirely.
 - + Easy to perform

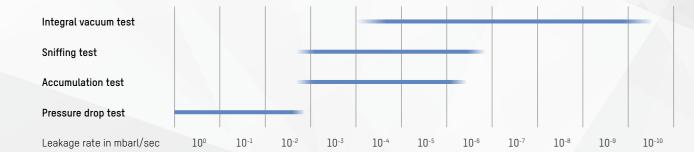


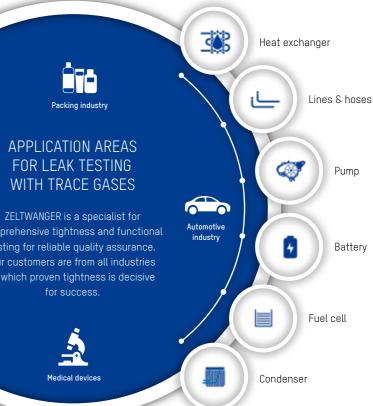
ACCUMULATION TEST

Application: The test item must be tested as a complete product.

The test item is placed into a simple collection chamber under atmospheric pressure and filled with test gas. After an accumulation period, the detector analyzes the air in the chamber and determines whether an increase in the test gas concentration is measurable.

+ Easy to integrate into the production line





ZEDsystem: Individually configurable sliding carriage system for leak testing (additional processes can also be integrated)

ZELTWANGER LEAKTESTING & AUTOMATION ENSURING OUTSTANDING QUALITY

Leak testing by ZELTWANGER has a systematic approach. Because effective leak and functional testing does not only require ideal equipment, but also a perfectly tuned overall concept. That's why, as a technology and innovation leader in leak testing with air and tracer gases, we offer not only modular high-end testing devices, but also comprehensive solutions in the areas of automation, adaption, service, and consulting.



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