CETA® Newsletter

+ + + + + CETA newsletter no. 26 of 04.10.2015 + + + + +

Dear readers,

For several years in a row, CETA has been achieving very positive business outcomes both at national and international levels. In order to provide adequate space for future expansion, a substantial extension of the company buildings was decided. We will report on this in our next newsletter, after completion of the work.

You can meet us at the MOTEK 2015 trade fair in hall 3, stand 3176. We are looking forward to meeting you.

Wishing you a pleasant reading of our new newsletter!

Yours

Günter Groß

Managing Director

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MOTEK 2015 Trade Fair – Revamped Exhibition Stand now in Hall 3

A new hall layout has been designed for the MOTEK 2015 in order to allow a better distribution of the visitor flows. Up to and including 2017, the exhibition will be held in the two rows of halls 3, 5, 7 and 9 as well as 4, 6, 8 and later 10 (planned new construction). CETA's stand at the MOTEK had always been in hall 1 in the past, but now this hall is used otherwise.

We found a new location in hall 3 and seized the opportunity for a major revamping of our exhibition stand to give it a clearer appearance, more open and up-to-date.

Come and see the result for yourselves (hall 3, stand 3176). We are looking forward to your comments.

Long-standing and Successful International Cooperation Partnerships

The long duration of cooperation partnerships is generally a clear signal of their success. This is why we are so pleased about our very successful, long-standing partnerships: more than 10 years with Delta Control Services in France, ETC Co. Ltd (spin-off of Eurovision) in Korea and the company Intertest Labortechnikai BT in Hungary, and nearly 10 years with the company Cressto s.r.o. in the Czech Republic (as of 2016).

Our cooperation partners are very important representatives and ensure international customer service and project support.

We would like to express our thanks to these companies for their valued performance over the past years and are looking forward to the continuation of our successful cooperation

Bypass Filling Function for Leak Tester Series CETATEST XS -Leak Test with Short Cycle Times -

The new leak tester series CETATEST XS was introduced in 2014 and successfully launched into the market. This new series rounds out the products portfolio of CETA Testsysteme GmbH with the addition of a compact version combining low cost and high performance. The test medium is compressed air.

The eight available test programs are parameterized by the corresponding PC software and transferred to test device (the number of programs can be extended at will by means of the appropriate control).

In addition, the software supports parameter finding and putting into operation, among other

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things by the display of a measuring curve. The software includes an extensive set of device test functions to help the customer with trouble-shooting. Furthermore, it provides detailed information on the device and test program statistics.

This cost-effective test device allows – for example – leak-testing of paper cups within a very short time (approx. 1 s). The use of expansion elements makes it possible to reliably detect defects under 0,5 mm diameter.

The newly available bypass filling function considerably improves the application range of the test device. This function allows faster filling and venting of the test part. An external electronical or mechanical pressure regulator is used according to the type of application.

This feature also makes it possible to use the CETATEST XS in automatic production lines with short cycle time. This has been demonstrated with great success for leak-testing of gas pipes (nominal diameter DN 12, length 2 m) within the specified short cycle times.

The CETATEST XS devices are delivered as standard and at no extra cost with a three-year warranty and factory calibration. DAkkS calibration is also available as an option.

CETA Practical Tip: A Few Remarks on the Adaption of Test Parts

In practice, leak tests often yield "fail" results after revision or maintenance of the test station or during putting into operation, even when using a master part (= certified good part). The first thing to do in these cases is to check the leak tester for internal leakage. If no leak is found in the device, the next step will be to search for the source of the problem in the external downstream measuring circuit and the adaption.

We have listed below a number of typical errors that frequently occur in practice:

- Overtightening the couplings (tightening up to rigid stop, for example) can cause microscopic cracks and hence leakages in the measurement line.
- A measurement line that is not dimensionally stable and expands when pressurized has a negative influence on the testing process.
- Screwed connections should be glued into place if possible. Otherwise the air of the measuring circuit could creep through the convolutions of the thread and escape.
- The number of adaptor fittings used should be kept to a minimum.
- A floating adaption with O-rings is not recommended. The non-reproducible stress behaviour can cause a wider spreading of the measurement results.
- An adaption with stopper, or a clamping cylinder with end-position locking, should be used whenever possible. Reproducible measuring conditions are important for fulfilling the requirements of a measurement system analysis (MSA).
- Particularities of the test part, e.g. irregularities on sealing surfaces due to misalignment of injection moulding, should be taken into account. In these cases it would be appropriate to use a softer sealing, even if it means having to change it more frequently due to higher wear and tear.
- As a rule, all sealing elements should be checked regularly (integrity, cleanliness), since insidious leaks in the sealing elements can have a negative influence on the testing process.
- The effective volume of the test part can be reduced by the use of displacement elements and/or of thinner and shorter measurement lines. This is beneficial because, on the one hand, the compressed air needs less time to circulate in the reduced volume and, on the other hand, the measuring signal is amplified (see article about leak rate formula in CETA-newsletters no. 1 and 10).
- And of course, it should be ensured that all mechanical and thermal influences are reduced to a minimum

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