

PRESS RELEASE

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For immediate release

New version 10 of CONVAL® is now available!

Wermelskirchen, NRW, Germany, March 2017: At the Valve World Expo in November/December 2016 in Dusseldorf, Germany for the first time presented **new version 10 of CONVAL®** is now available for all customers and prospects of the FIRST GmbH!

Following an intensive development and test phase, **CONVAL® 10** now offers, in addition to updating the calculations to the latest standards and the implementation of further standards and procedures, extensive functional extensions in many of the available modules.

The sizing and calculation of downstream resistor structures is completely new and now offers various design as well as recalculation modes. New flowmeters such as cone- or wedgemeters, a calculation of the thickness for orifices, multi hole restriction orifice plates or pressure loss calculations for two-phase flow complement the range of functions.

Thermowells can now also be calculated according to DIN 43772 with up to three sections, a graphical stress analysis completes the possibilities here. The thermodynamics package now supports, in addition to the substances of the Ruhruniversität Bochum, the RefProp substances from the NIST.

On the IT side, too, much has become easier, e.g. as **CONVAL®** now can update its databases online without administrator support and creates PDFs without a PDF printer driver.

A new milestone is set by the **CONVAL®** team in the successful history of the software solution!

F.I.R.S.T. - Gesellschaft für technisch-wissenschaftliche Softwareanwendungen mbH, based in Wermelskirchen (Cologne / Dusseldorf area), came into being in 1989. The company's goal is to continuously improve CONVAL®, a powerful software product for sizing, calculating and optimizing the components and processes in industrial plant systems, and to sell it in the international marketplace. The idea for CONVAL® was born in the late seventies and originally realized in the guise of small routines for programmable pocket calculators. Many of the calculation modules that today are integral elements of CONVAL® existed in a simplified form even then. In 1985 a team of experienced engineers from the fields of instrumentation and control, chemical processes and machine building, as well as various other branches of industry, joined forces with software development experts. At the end of a development phase lasting four years, they were able to present the first results – christened CONVAL® 1.0 – at INTERKAMA '89.

CONVAL® saves time and money by standardizing the workflows for calculating and optimizing plant components – eliminates work-intensive and therefore time-consuming custom calculations – minimizes the probability of errors with the help of verified design parameters – facilitates access to the latest published properties – enables critical states to be simulated on the basis of specified disturbance quantities – prevents unscheduled plant shutdowns by means of numerous engineered safeguards – integrates easily into application-specific software environments and with its customer-friendly price structure offers an exceptionally fast R.O.I. Finely tuned to real-world needs and founded on innovative software architecture, CONVAL® already helps boost the productivity of several thousand satisfied users worldwide.

In addition to CONVAL®, F.I.R.S.T. GmbH today also offers consulting and customized software development mainly for technical applications.