

Hiter

Control Valves

Brazil

www.hiter.com.br

ANSYS

ANSYS Mechanical and Fluid Dynamics Solutions

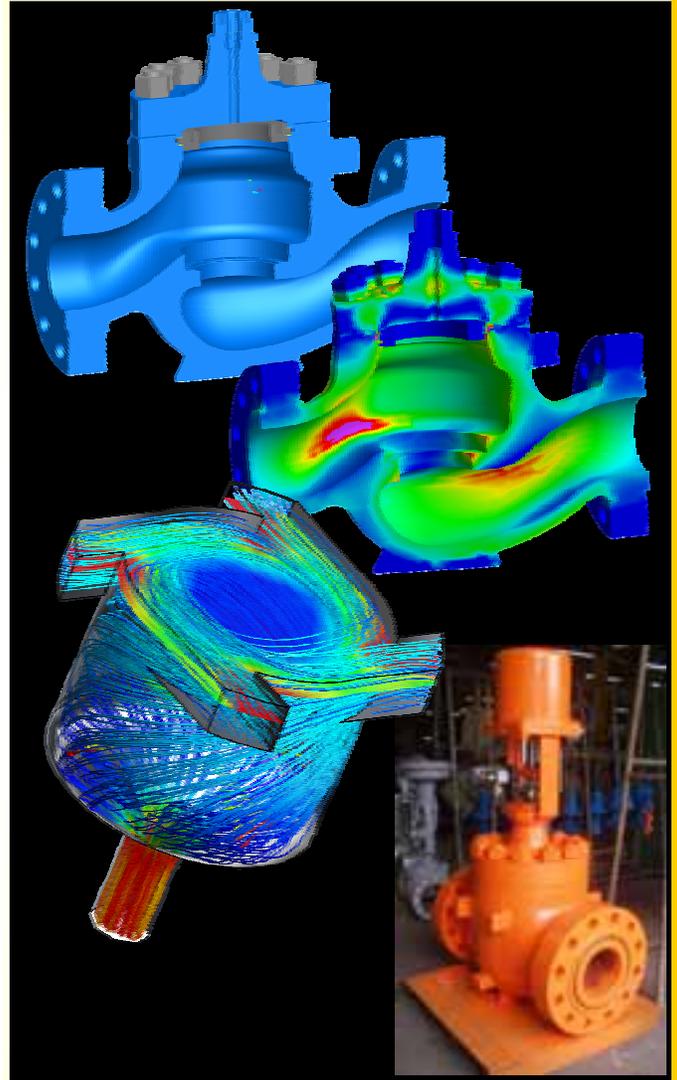
Overview

For 40 years, Hiter has been developing and manufacturing control valves for the Brazilian and international markets. From their start in the sugar market, a commitment to quality has propelled growth into the paper and cellulose, oil, food processing, chemical and waste industries. Located in São Paulo, Brazil in a ten thousand square meter industrial park, Hiter owns the only laboratory for noise and cavitation testing in Latin America. Continuous research, modern technology and a specialized engineering team are committed to efficiently producing valves of the highest quality and reliability.

Testimonial

"Using ANSYS software eased our workload. Now, each design change can easily be communicated between our solid modeler and the simulation software. We selected ANSYS® DesignSpace® and ANSYS® CFX® because of their state-of-the-art technology. This software helps us create virtual prototypes so that we can analyze dozens of alternatives before manufacturing. If we were not using the software, it would be necessary to build dozens of prototypes (requiring up to four months per prototype) in order to develop the final design. It is also possible to customize the results in order to determine if standard criteria have been met. Using ANSYS software allows us to simulate pressure and temperature load under a wide variety of conditions and the result is reduced risk for Hiter in both design and manufacturing phases. We are very pleased with the results obtained by using ANSYS DesignSpace and ANSYS CFX."

Carlos Koiti Ikeda
Project Engineer
Hiter



Challenge

Hiter requires flexible, integrated software for both fluid flow and structural analysis.

This software must be capable of interacting with the solid modeler already in use in the design process.

Hiter wants to virtually test many design variations of their control valves in order to increase understanding of their product and to minimize time spent by their engineering team in repetitive tasks and experimental testing.

Solution

Hiter started using ANSYS DesignSpace and ANSYS CFX computational fluid dynamics software in 2004.

Bidirectional CAD associativity allows ANSYS DesignSpace, ANSYS CFX and the solid modeler work together to easily exchange information.

Physical tests are now required only for at the final stage of design, eliminating the trial and error process of live testing

Benefits

Using ANSYS software reduced the number of prototypes and physical tests and enabled the study of more design alternatives.

The superior technology in ANSYS products and the knowledgeable support from ESSS (the ANSYS distributor in Brazil), is saving Hiter's engineers significant time in the modeling and simulation process.

Product development time was reduced by months.