



Full steam ahead at Schubert & Salzer thanks to Certuss



Successful partnership in the project for the construction of the new power station

An application report by Felix Josephs and Christoph Lukasik

Research and development are decisive factors for the quality of control and stop valves. For this reason, Schubert & Salzer operates a state-of-the-art steam test bench at its headquarters in Ingolstadt that is integrated into a particularly efficient power station. For the steam generation, the valve specialists use a Junior 400 TC by Certuss – a long-standing customer of the company. There were convincing reasons for the cooperation with the steam specialists.

The Schubert & Salzer group of companies' power station at the production site in Ingolstadt is a state-of-the-art plant with perfectly matched components. A combined heat and power plant generates electricity and thermal energy for use at the site. Using an absorption refrigeration machine, the latter is converted into cooling energy and used in summer for the air conditioning of the rooms. A stratified storage system additionally increases the efficiency and enables the needs-based use of heating and cooling. In the new power station, more than 150 Schubert & Salzer valves up to DN250 take care of the safe shutting off and precise control of the operating media.

Embedded in the power station is also a state-of-the-art steam test bench that enables valve tests to be performed that go far beyond the normal industry standards. Speed, precision, leak-tightness and further relevant properties of control and stop valves can be tested intensively here under real conditions and further improved. Endurance tests and thermal load tests can also be performed in-house. The steam used for these tests does not go to waste, but is fed into the site's energy supply.

High demands on the project partners

Schubert & Salzer set high standards in selecting the individual components for the complex plant systems. "It was important to us to bring partners on board, who we knew from many years of experience set similarly high standards for themselves in terms of the quality of product, advice and service as we do for ourselves",



A Junior 400 TC fast steam generator from CERTUSS feeds the steam test bench in the power station at Schubert & Salzer.



Schubert & Salzer's modern steam test bench enables valve tests to be performed that go far beyond the normal industry standards.

explained Christoph Lukasik, Head of Research and Development at Schubert & Salzer. "In the selection of the steam generator for the valve test bench, we found such a partner in our long-standing customer Certuss."

For many years, Certuss has used sliding gate valves from Schubert & Salzer for pressure control in its steam generators: "Their small installation dimensions, low weights and fast control behaviour are unrivalled advantages", says Felix Josephs, development engineer at Certuss. "What we particularly value, however, is the professional, partnership-like and always solution-oriented cooperation with Schubert & Salzer as a supplier. We were delighted to swap the roles of supplier and customer in the course of this project."

"The professional cooperation with Certuss was put to the test during a customer demonstration, when an overpressure switch tripped, leading to a malfunction of the steam generator. Within just a few minutes we received telephone support from the Certuss experts, who were able to fix the problem immediately," Christoph Lukasik recalls. Over the course of the entire project and in subsequent operation, we got to know and value this professional and pragmatic approach."

Benefits through research, development and partnership-like cooperation

The steam test bench is now a firm fixture in the research and development department at Schubert & Salzer. It enables the performance of tests under real conditions, practice-based training and product presentations. It is fed by the jointly selected Junior 400 TC fast steam generator – naturally with a sliding gate valve for steam regulation. "Just like our project partner Certuss, the steam generator has proven to be extremely reliable and exactly the right choice", Lukasik concludes.

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About Certuss GmbH



CERTUSS is a German mid-sized manufacturer of fast steam generators. It is based in Krefeld and has further sites in Great Britain and the USA. Steam generators from CERTUSS are firm fixtures all over the world in over 100 branches of industry, such as healthcare, the chemical, pharmaceutical and automotive industries, the hotel industry and the food and beverage industry. With consistent research and development as well as the highest quality standards, CERTUSS has been manufacturing both gas- and oil-fired steam generators as well as electrically heated steam generators for over 60 years. The performance classes extend up to 2,000 kg/h per steam boiler for the fossil-fired modules and up to 320 kg/h for the electric steam generators.