

# Perfect flow regulation on the flow meter test stand

## The customer

Belimo Automation AG, based in Hinwil, Switzerland, is a global leader in the development, manufacture and sale of damper actuators, control valves, sensors and meters for the energy-efficient control of heating, ventilation and air conditioning systems.

## The initial situation

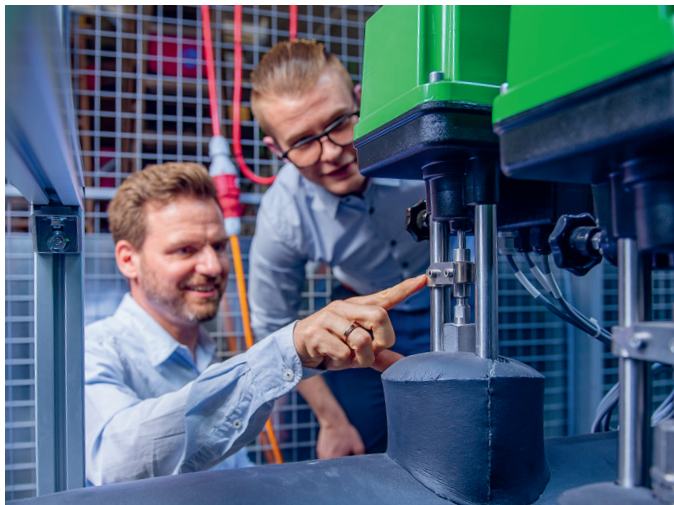
Belimo's devices are thoroughly tested before they are sent to customers. To check and adjust the flow meters, Belimo built a new test system that sequentially generates various volumetric flows ranging from 2 to 2000 l/min in a circuit. An important factor in achieving reliable results is flow regulation. For this, the designers needed a sliding gate valve with a wide temperature range and extremely high responsiveness.

## Project requirements

- Specified temperature range:  
20°C (adjustment) to 80/85°C (measurement).
- Suitable for water-glycol mixture
- Motor drive
- Stainless steel
- Minimum hysteresis

## Bachofen's solution

Belimo had already used sliding gate valves from Bachofen's technology partner Schubert & Salzer in an earlier project and was enthusiastic about the technology. Based on technical advice from Bachofen's valve technology



*The precise sliding gate flange motor valve 8038 from Schubert & Salzer meets the demanding requirements.*

specialists, they opted for the Type 8038 stainless steel sliding gate flange motor valve, which fully met the requirements of the challenging application: The component is fully functional at media temperatures from -60°C to 350°C, and is compact in design, fast and durable. It is

***"Thanks to minimal hysteresis, the valve ensures highly precise flow control and moves quickly to the correct position without overshooting. It's exactly what we need."***

Daniel Hauser,  
Development Sensing Technology, Belimo Automation AG



ideal for fluids such as water-glycol mixtures and boasts the utmost positioning accuracy. This comes from the zero-play design and the perfect interaction of the control electronics and stepper motor.

Project technology partner

SCHUBERT & SALZER

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