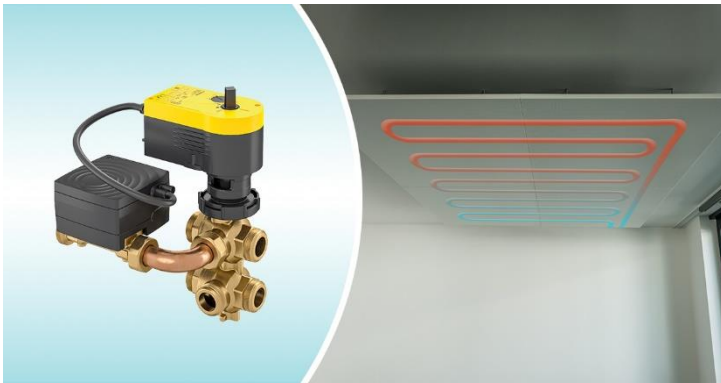


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SAUTER eValveco: Dynamic control for heating and cooling

The SAUTER eValveco system is used for automatic hydronic balancing in the full or partial load ranges as well as for real-time flow control. It replaces a static balancing valve in combination with a regulating/control valve or a ball valve. Two new controllers with BACnet MS/TP have been added to the product range.



Application example of the eValveco system: Control of heated and chilled ceilings

HVAC systems play a decisive role in implementing energy objectives in the building sector. Trouble-free and energy-optimised heating or cooling not only results in a comfortable room climate. If the system runs in a reliable and balanced manner, it can reduce CO₂ emissions and the building's operating costs.

Interacting products from a single source

eValveco, the dynamic flow control system from SAUTER, is used in HVAC systems with variable flow. It consists of a flow meter, a regulating valve and an actuator, and controls the volume flow independently of pressure fluctuations in hydraulic circuits. Depending on the type, the products combine the functions of a pressure-independent control valve (PICV), a 6-way ball valve for the changeover function (heating/cooling), a balancing valve and a motorised shut-off valve.

SAUTER eValveco is designed for automatic dynamic hydronic balancing in real time, thus making additional balancing valves superfluous. The system maintains a perfect balance in the hydronic network in both full or partial load ranges. Without any additional components, it ensures that the exact amount of energy required is distributed to the right place at the right time.

Communication via Modbus and now also BACnet

The flow control system communicates via Modbus RTU in combination with a building management solution. eValveco UVC 106 is available in two new BACnet MS/TP versions: The UVC106BF015 with nominal diameter (DN) 15 and the UVC106BF025 with nominal diameter (DN) 20.

By means of direct integration into the building automation system with BACnet, the energy consumption of each room can be recorded in real time in management software such as SAUTER Vision Center. The values can be conveniently adjusted via computer, tablet or mobile phone. This not only brings transparency to the system's energy flow, but also enables indirect costs such as CO₂ tax on fuels to be reduced. Residents benefit from trouble-free room climate control and facility management is called upon less often for unscheduled maintenance in the event of faults.

About SAUTER

As the leading provider of solutions for building automation technology in Green Buildings, SAUTER ensures good climate conditions and a sense of well-being in sustainable environments. SAUTER is a specialist in developing, producing and marketing products and systems for energy-efficient total solutions, and offers a comprehensive range of services to ensure the energy-optimised operation of buildings. Our products, solutions and services enable high energy efficiency throughout the entire life-cycle of a building – from planning and construction through to operation – in office and administrative buildings, research and educational facilities, hospitals, industrial buildings and laboratories, airports, leisure facilities, hotels and data centres. With over 100 years' experience and a track record of technological expertise, SAUTER is a proven system integrator that stands for continuous innovation and Swiss quality. SAUTER provides users and operators with an overview of energy flows and consumption, and therefore of the development of the costs involved.

The SAUTER Group

- Company active worldwide with headquarters in Basel, Switzerland
 - Founded in 1910, it is built on more than 100 years of tradition and experience
 - With more than 2,700 employees, it is present and active globally
 - Complete building management solutions from a single source.
- Focus: maximum energy efficiency and sustainability

- Investment protection and operational reliability over the entire building life-cycle
- Technology leader in the building automation and system integration sector
- Member of eu.bac, BACnet Interest Group (BIG-EU), BACnet International, EnOcean Alliance
- Excellent references available at www.sauter-controls.com