



**Flow control made
easier than ever.**

Electronic pressure-independent characterised control valve EPIV

The EPIV combines four functions in one ready-to-install unit: measuring, controlling, balancing and shutting. This is how you increase efficiency during planning, implementation and operation.

- Automatic, permanent hydronic balancing ensures the correct water quantity in the event of differential pressure fluctuations also with partial load
- Time-saving and safe valve design according to the maximum flow rate
- Real-time information about the measured flow rate creates transparency
- Supports common building automation communication protocols
- Patented logic for temperature and glycol compensation ensures correct measurement and control at all times
- Accurate measurement of glycol content enables efficient monitoring



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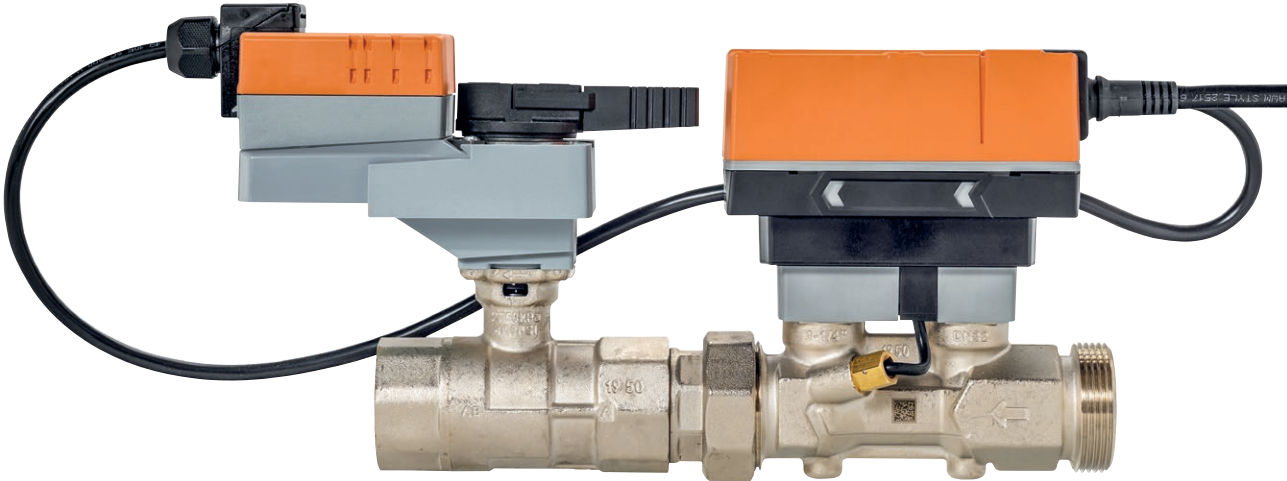
Key features at a glance.



Digitally supported workflows
The Belimo Assistant App guides you through the setup process.



Glycol measurement and compensation
Glycol measurement and compensation guarantees precise flow measurement at all times.



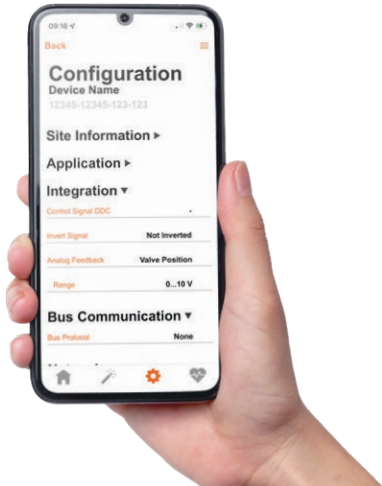
Simple integration
The EPIV can be integrated directly into the building management system via BACnet MS/TP and Modbus RTU.



Regulating and balancing
Flow rate measurement for correct flow control according to the setpoint. Thanks to the pressure independence, there is no need for hydronic balancing.

Simple commissioning and activation thanks to NFC

The EPIV with NFC interface (Near Field Communication) enables easy configuration and maintenance directly from a smartphone. With the Belimo Assistant App, the devices can be parametrised intuitively and commissioning values can be logged. Key performance indicators (KPIs) make it easier to determine the condition of the device, ensuring reliable operation. Numerous diagnostic parameters show how the device interacts with the system. If servicing is required, it is possible to draw up a failure analysis quickly.



Measure and control.

A versatile solution

The EPIV, which consists of a 2-way characterised control valve, a volumetric flow sensor with integrated logic, a temperature sensor and an actuator, combines many functions in a single, easy-to-install unit.

- Measure: Integrated sensors for measuring temperature and flow (incl. measurement of glycol content)
- Control: Control of valve position and flow rate
- Balance: Always the correct water quantity – even with differential pressure fluctuations and with partial load
- Shut off: no leakages thanks to air-bubble tight-closing characterised control valve
- Transparency: Know how high the flow rate is (incl. compensation of the glycol content)

Shopping list

- 1 EPIV ✓
- ~~1 Control valve~~
- ~~1 Balancing valve~~
- ~~1 Flow sensor~~
- ~~1 Temperature sensor~~
- ~~1 Complex calculation~~
- ~~30 min. of hydronic balancing~~
- ~~15 min. of assembly work~~

The future of HVAC systems is connected

Connectivity has always been an important feature of our products. The EPIV supports all common building automation communication protocols (BACnet MS/TP, Modbus RTU and Belimo MP-Bus). Bus communication can also be used for monitoring and override when the EPIV is controlled by an analogue control signal.



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	Type	Nominal diameter DN	Adjustable flow V _{max} [l/min]	Automatic glycol compensation	Fail-safe
	EP..R2+BAC	15...50	6.3...378	■	—
	EP..R2+KBAC	15...50	6.3...378	■	■

All inclusive.

Belimo is the global market leader in the development, production and sales of control devices for energy-efficient control of heating, ventilation and air-conditioning systems. Damper actuators, control valves, sensors and meters make up the company's core business.

Always focusing on customer value, we deliver more than only products. We offer you the complete product range for the regulation and control of HVAC systems from a single source. At the same time, we rely on tested Swiss quality with a five-year warranty. Our worldwide representatives in over 80 countries guarantee short delivery times and comprehensive support through the entire product life. Belimo does indeed include everything.

The "small" Belimo devices have a big impact on comfort, energy efficiency, safety, installation and maintenance.

In short: Small devices, big impact.



5-year warranty



On site around the globe



Complete product range



Tested quality



Short delivery times



Comprehensive support

