

**Flow Control Made
Easier Than Ever**



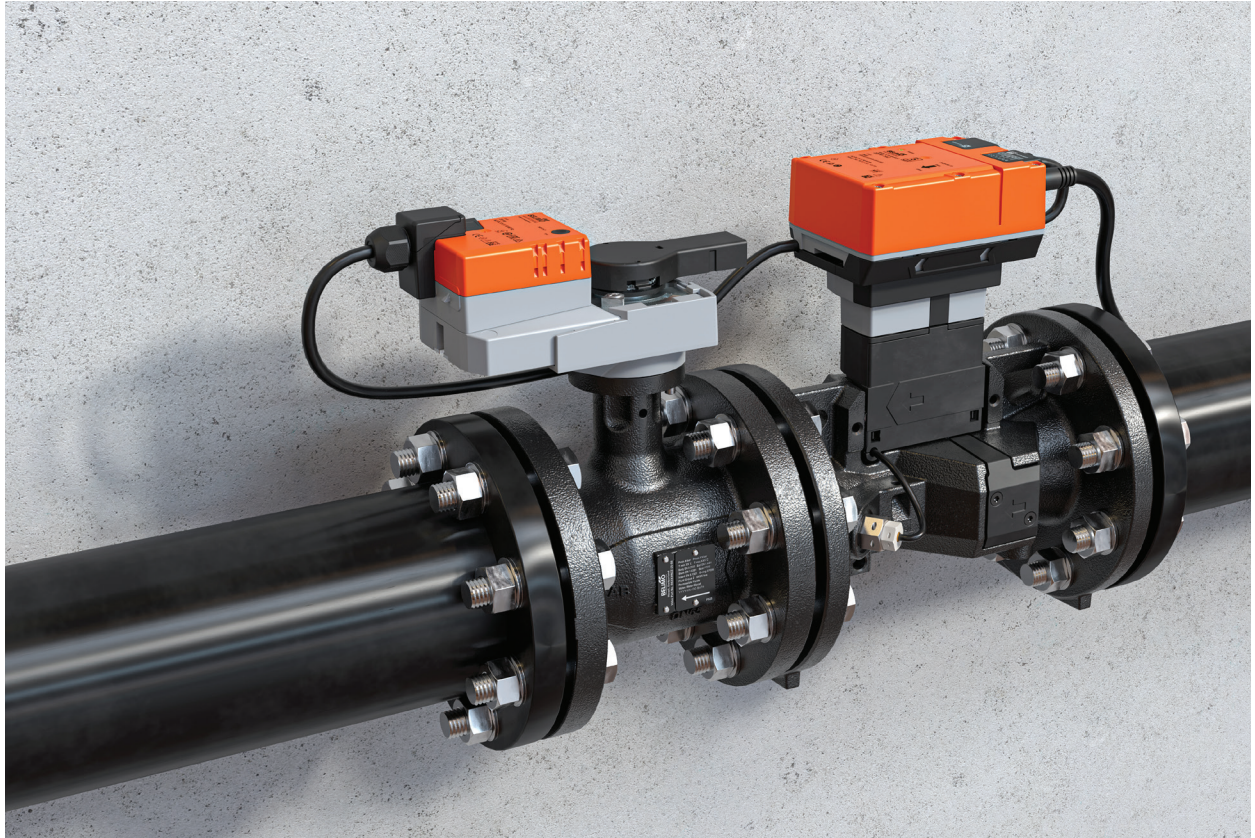
Electronic Pressure Independent Characterized Control Valve (EPIV4)



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BELIMO[®]

The smarter way to control the flow rate



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.

- Time-saving and safe valve design according to the maximum flow rate
- Automatic, permanent hydronic balancing ensures the correct water quantity in the event of differential pressure fluctuations also with partial load
- The Belimo Assistant 2 App streamlines commissioning and operation
- Real-time flow information provides transparency for monitoring
- 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

Measure and control

The EPIV, which consists of a 2-way characterized 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

A secure, tight-closing control valve guarantees 0% leakage



Transparency

Know how high the flow rate is (incl. compensation of the glycol content).

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 analog control signal.



Key features at a glance

Digitally supported workflows

Belimo Assistant 2 App guides you through the setup process.



Glycol measurement and compensation

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



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.



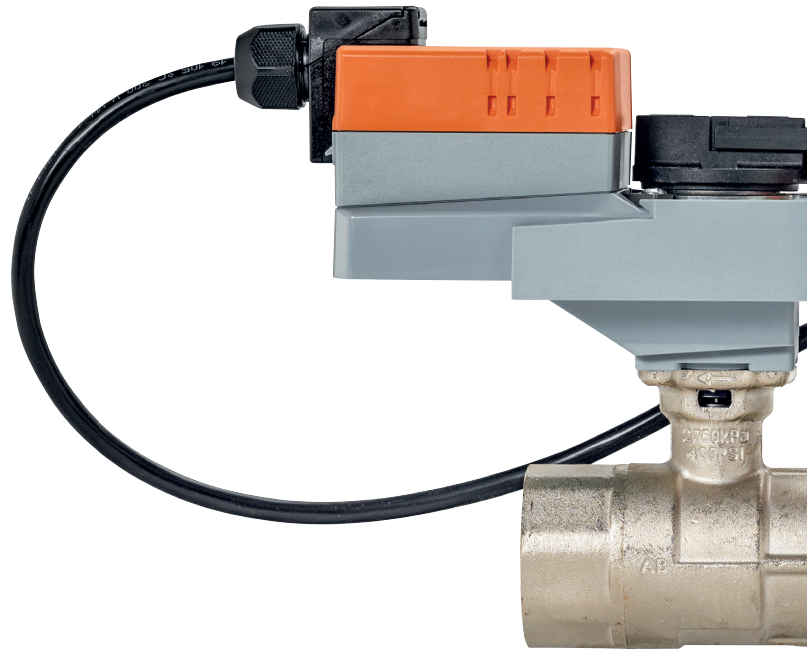
Simple integration

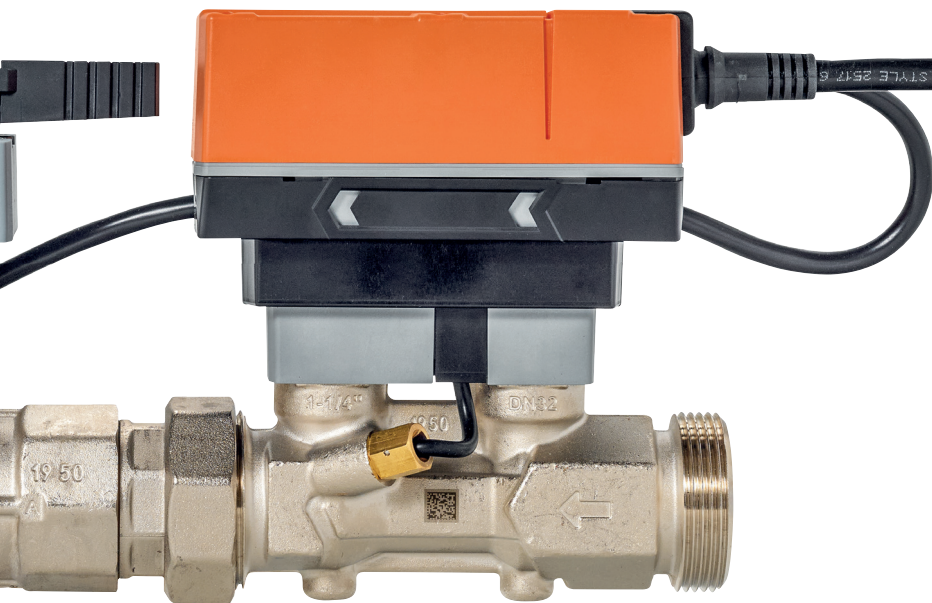
The EPIV can be integrated directly into the building management system via BACnet MS/TP and Modbus RTU.



Installation-friendly

All components combined in a single unit.



**Energy efficient**

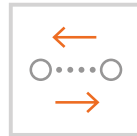
No leakages thanks to tight-closing characterized control valve (0% leakage).

**Flexible**

Easy-to-adjust maximum flow rate.

**Time saving**

Markedly reduced effort for hydraulic balancing.

**Versatile**

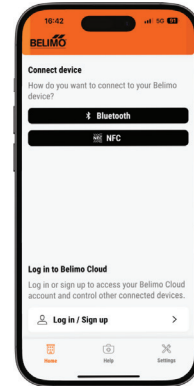
Conventional or Belimo MP-Bus communication.

**Secure**

Desired flow rate under all conditions.

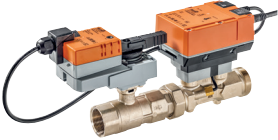
Simple configuration, setup and monitoring

The EPIV4 with NFC interface (Near Field Communication) enables easy configuration and maintenance directly from a smartphone, tablet or laptop using the Belimo Assistant 2 App. The Assistant 2 App enhances efficiency with swift programming, commissioning, and diagnostics. Key features include identification of device type, parameter customization, and visualization of operational data.



Electronic pressure independent characterized control valve EPIV4


Sizes from ½" - 2" (DN 15 to 50) - NPT connection



Type	Valve Nominal Size		GPM Range	Suitable Actuators	
	Inches	DN [mm]		Non Fail-Safe	Electronic Fail-Safe
EP050+..	½	15	1.65...6.6*	LRX-E, ARX-E (N4)	AKRX-E (N4)
EP075+..	¾	20	2.7...11*		
EP100+..	1	25	4.5...18.2*	NRX-E, ARX-E (N4)	AKRX-E (N4)
EP125+..	1¼	32	7.1...28.5*		
EP150+..	1½	40	11...44*	ARX-E (N4)	
EP200+..	2	50	16.5...66*		
EP200H+..	2	50	25...100*		

*V'nom = Maximum flow for each valve body size.

Sizes from 2½" - 6" (DN 65 to 150) - flanged connection (ANSI 125 / ANSI 250)



Type	Valve Nominal Size		GPM Range	Suitable Actuators	
	Inches	DN [mm]		Non Fail-Safe	Electronic Fail-Safe
EP250 (-250)	2½	65	33...132*	ARX-E (N4)	AKRX-E (N4)
EP300 (-250)	3	80	46...185*		
EP400 (-250)	4	100	83...330*	GRX-E (N4)	GKRX-E (N4)
EP500 (-250)	5	125	132...528*		
EP600 (-250)	6	150	198...793*		

*V'nom = Maximum flow for each valve body size.

Note: Flows can be field set to 25% of nominal flow rate (V'nom).

Actuators are available in the standard version, with a fail-safe function, and also in the N4 version, including N4HH and N4HT.

All inclusive.

At Belimo, we continually invest in new technologies that increase customer value by improving occupant comfort, energy efficiency, simplified installation, and maintenance-free operation. Our sales team is available to consult and provide insight and advice on how to achieve the best solution to help increase your system performance.

Belimo will continue to focus on providing you with exceptional product availability, fast delivery times, and world-class customer service and technical support. We remain dedicated to continuously improve our standards and are committed to providing you with the highest value possible.

Whatever your HVAC application, our global network of support experts are on hand and ready to assist.



5-year warranty



On site around the globe



Complete product range



Tested quality



Short delivery times



Comprehensive support

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