

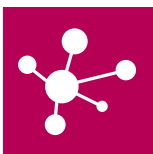
SIEMENS
Ingenuity for life

Intelligent Valve – makes planning a snap

The self-optimizing dynamic valve
with cloud connection

siemens.com/intelligentvalve

Time pressure, changes in plans and interdependencies are all part of the daily routine when planning HVAC systems. That is why Siemens developed the Intelligent Valve. In every project phase, it makes your work easier, saves you time, and guarantees both room comfort and maximum energy efficiency.



Intelligent
Devices by
Siemens

Snap! And it's set up

Don't worry if the facade or insulation changes over the course of the project. With the Intelligent Valve, you can check and adjust the presetting at any time via remote access. Values are always up-to-date and stored in the digital twin in Building Operator, the cloud application from Siemens.

Snap! And everything's in balance

Forget complicated hydronic calculations. The Intelligent Valve continuously measures the flow rate electronically and easily balances fluctuations in pressure. There is no need for time-consuming calculations: All you have to do is determine the maximum volumetric flow rate. What's more, the dynamically balancing system is intrinsically energy efficient and ensures the greatest possible room comfort.

Snap! And it's approved

Regardless of how many parties are working on the project, you'll always maintain a clear overview – because the Building Operator will always show you the latest valve status. You can check and verify values as well as the hydronic balancing and energy efficiency at any time.

Snap! And the heat exchanger's optimized

Say goodbye to manual adjustments. The Intelligent Valve optimizes the heat exchanger. It measures the temperature, flow rate and output to determine whether the valve characteristic is in line with the heat exchanger. If it isn't, the valve adapts the valve characteristic to the heat exchanger's output characteristic.

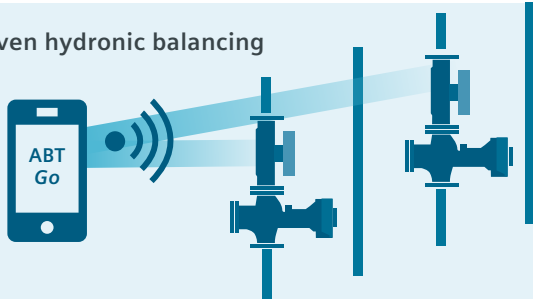
It's just a snap: simple, flexible, transparent

Intelligent Valve. Your benefits during planning:

- Less effort and significantly less time spent on planning, configuration and acceptance tests
- Quick and easy adjustment to new requirements and changes in plans
- Full transparency over the valve settings
- Fact-based analysis with verifiable hydronic balancing at the end of the project
- Verifiable, energy-efficient operation

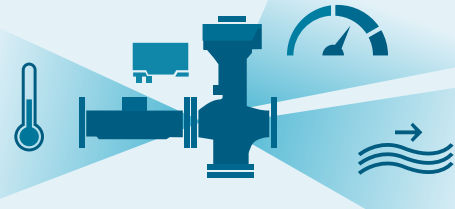


Proven hydronic balancing



Verifiable hydronic balancing:
Values are available via the free ABT Go app.

Optimization of the heat exchanger



Does the flow characteristic fit the heat exchanger?
If not, the valve will adapt.

High-resolution
actuator

Control valve

Paired temperature sensors
for flow and return

Controller box with:

- Dynamic flow control
- Energy monitoring
- Heat exchanger optimization
- Daisychain connection
- WLAN interface for connecting with the ABT Go app

Ultrasonic flow
sensor



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**Intelligent Valve: the ultimate solution for HVAC systems.
Guarantee the success of your plans – make it a snap!**