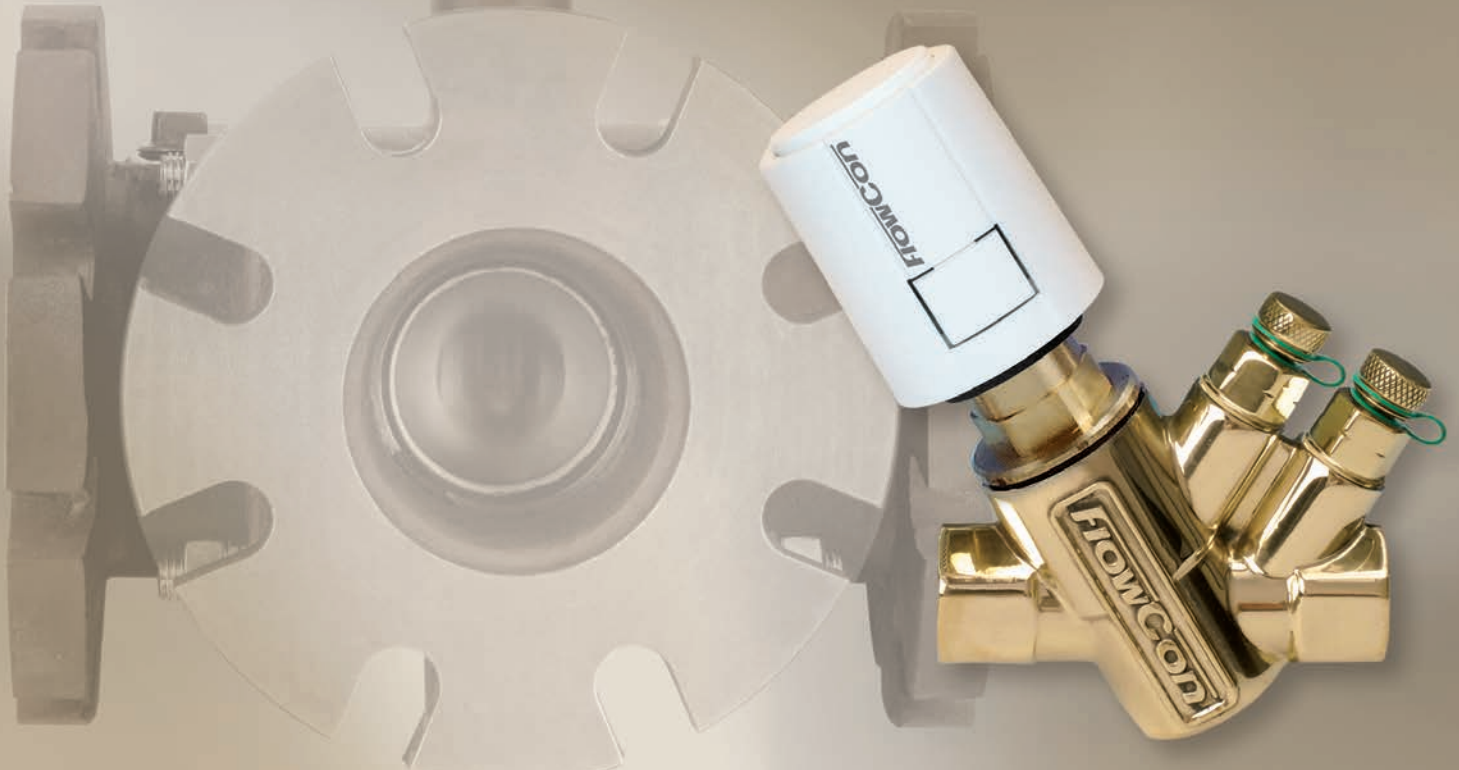


FlowCon EVS & Unimizer®



Balanced and Actuated Temperature Control

The FlowCon EVS is a combi valve including temperature control and automatic balancing in a single unit. The valve will provide ON/OFF or analog temperature control and self-balancing flow control for use with fan coil units in air-conditioning and cooling ceilings or as zone valves in heating systems. The FlowCon EVS itself is a plug-in module and the regulation unit is a unique single-flow stainless steel insert. The actuator commonly used is a thermal normally closed type.

- Automatic and Dynamic balancing - required max. flow is achieved and maintained.
- 100% pressure independent - providing the correct flow while compensating for pressure fluctuations in the system.
- Reliable, robust and tamper-proof pre-set stainless steel insert with few moving parts - wide range of flow rates available.
- Thermal actuator with built-in failsafe function.
- High accuracy of $\pm 5\%$.

The FlowCon Unimizer® is a range of actuated control valves permitting linear heat transfer. The built-in equal percentage characteristic allows true equal percentage flow. Hence, temperature adjusts smoothly, and energy is saved. Common applications are air handling units, plant room or as pipeline product. With the 3-way version, the same valve can be used for either mixing or diverting application.

- True equal percentage flow characteristic with deep equal percentage curve.
- Wide range of sizes for both 2-way and 3-way, DN15-DN150 (1/2"-6").
- Better performance than conventional globe technology.
- 5-6 different Kvs values per valve size - allows improved valve authority.
- Low cost compared with Butterfly valves.
- Universal actuator mounting plate allows electrical actuator choice flexibility.

FlowCon EVS & Unimizer®

Balanced and Actuated Temperature Control

Temperature Control valves are actuated control valves and are available **with or without added dynamic flow control**. Both types are common in heating and cooling applications and assist in the aim of accurate temperature control.

FlowCon EVS

Control feature: flow limiting and ON/OFF control (optional modulating control)
 Size: DN15-25 / 1/2"-1"
 Max. operational: 390 kPaD / 57 psid
 Max flow rates: 0.0210-0.631 l/sec / 0.333-10.0 GPM
 Media temp.: -20°C to +120°C / -4°F to +248°F
 Static pressure: 2500 kPa / 360 psi

FlowCon Unimizer®

Control feature: equal% flow characteristic with modulating control
 Size: DN15-150 / 1/2"-6"
 Media temp.: -20°C to +120°C / -4°F to +248°F
 Static pressure: threaded: 2500 kPa / 360 psi
 flanged: 1600 kPa / 240 psi

Housings

The FlowCon EVS is a plug-in module with a stainless steel insert and is used with the FlowCon housings:

- FlowCon A - DN15-25 (1/2"-1"), F/F threaded
- FlowCon AB - DN15-25 (1/2"-1"), F/F threaded
- FlowCon ABV - DN15-25 (1/2"-1"), double union end

The FlowCon Unimizer® is delivered as a

- one-unit brass valve in sizes DN15-80 (1/2"-3"), female/female threaded and
- cast iron in sizes DN100-150 (4"-6"), flanged.

Actuators

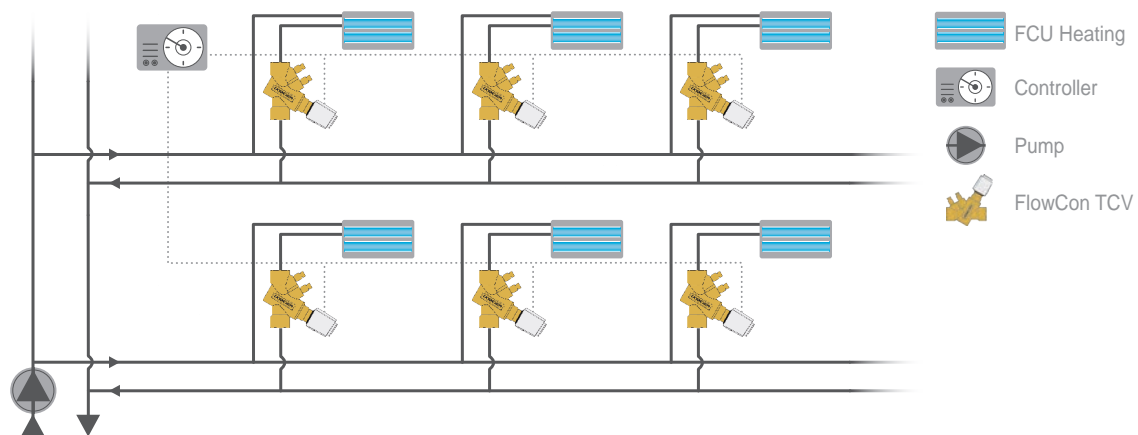
EVS valves are used with thermal actuators, which are available either as ON/OFF or modulation. The Unimizer® has its own range of electrical actuators; B-series is used on the smaller threaded sizes and T-series is used on the flanged versions.

Applications

A wide range of heating and cooling application. For further information visit www.flowcon.com

Application Example

Chilled ceilings with Temperature Control Valves (TCV) - ON/OFF Control



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