

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.

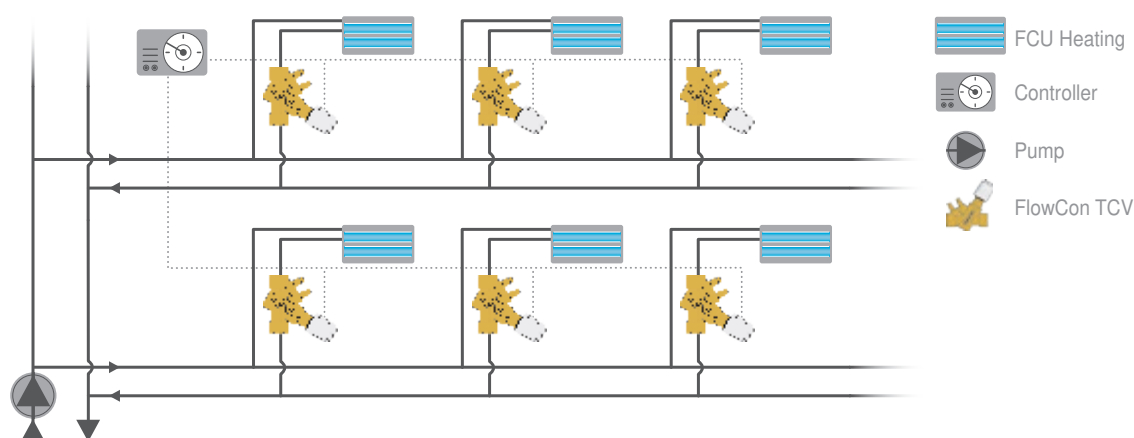
Applications

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



FlowCon
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