

FlowCon SM



The most Advanced PICV in the World with User-friendly Actuator

The FlowCon SM valve is a pressure independent dynamic control valve, which automatically keeps a constant differential pressure across the internal controlling orifice of the valve. FlowCon SM valve setting will limit flow to design flow at full load, and the FlowCon SM actuator will precisely and with full authority limit the flow requirement at any partial load. The dynamic flow characteristics keep the FlowCon SM in constant authority and automatically balanced. This ensures delivery of precisely the flow rate required by each unit, independent of pressure fluctuations in the hydronic system.

The FlowCon SM is a 100% authority pressure independent flow control valve, which instantaneously self-balance at all points of operation, even when there is variance in pressure differential. As long as the differential pressure across the valve is within the operation range, the Kv of the valve is regulated nonstop to keep the control valve in full authority.

All together, the choice for FlowCon SM will avoid extensive calculations, assessment of valve authority and over-sized control valves.

- **100% authority pressure independent** - for any of each valve's 51 max. flow settings.
- **User-friendly touch panel actuator** for **easy setting** of flow, control input, control mode etc.
- **Display actuator** as well as actuator feedback to BMS allow **monitoring** of valve performance.
- Optional **failsafe and BACnet actuator** versions available.
- **Wide range** from DN15-250 (1/2"-10") all using the same type actuator - an **easy solution for designers, installers and end-users**.
- Multi-rotational actuator - for **precise position** of the spindle providing **accurate flow**.
- **Multiple control modes** included providing **high accuracy**.

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PICV with actuator

Maintains correct flow despite pressure changes and guarantees that flow and actuator position only change when demand requirements change.

Size: DN15-250 (1/2"-10").

Max. operational ΔP : SM.1/2: 320 kPaD / 46 psid.

SM.3/4/5/6: 800 kPaD / 116 psid.

Max. flow rates: 0.176-76.8 l/sec / 2.79-1220 GPM.

Media temperature: -20°C to +120°C / -4°C to +248°F.

Static Pressure: SM.1/2: 2500 kPa / 360 psi.

SM.3/4/5/6: 4000 kPa / 580 psi.

Housings

The FlowCon SM is available 6 different housing sizes covering:

- SM.1 - DN15-25 (1/2"-1"), union end connections.
- SM.2 - DN25-40 (1"-1 1/2"), union end connections.
- SM.3 - DN50-80 (2"-3"), flange connection.
- SM.4 - DN80-100 (3"-4"), flange connection.
- SM.5 - DN125-150 (5"-6"), flange connection.
- SM.6 - DN200-250 (8"-10"), flange connection.

SM actuator

All SM valves can be fitted with the same type state-of-the-art actuator, which both in design and user-friendliness is unique. All features are selected directly on the touch panel or remotely via BACnet.

The actuator display continuously shows current flow rate and a range of additional valve information.

The SM actuator is electrical 0(2)-10V or 0(4)-20mA modulating, 3-point floating or 2-position in one and the same unit and always with feedback.

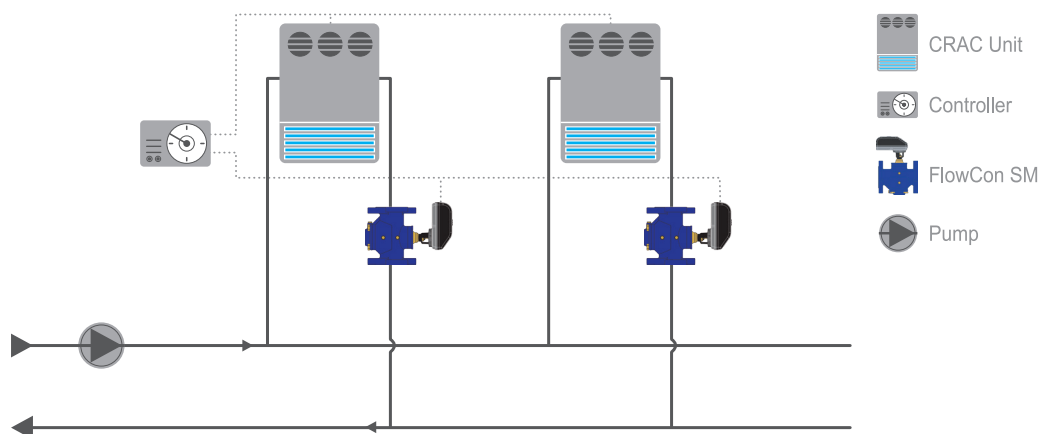
Applications

The FlowCon SM is designed for HVAC installations. The 2-way regulation/control valve is used: in radiator heating circuits and inverted heat systems, on fan coil units, air handler units, CRAC units, heat exchangers and hot water tank systems - wherever dynamic balancing and fully accurate temperature control are required.

For further information visit www.flowcon.com

Application Example

CRAC Unit, Computer Room Air Condition with PICV Direct Control.



FlowCon
international

A Griswold Controls LLC/FlowCon International Company

www.flowcon.com

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