

FlowCon Green



Pressure Independent Control Valves with 100% Authority

The FlowCon Green insert is designed as a 3-in-1 solution combining a full stroke modulation control valve, an automatic balancing valve and a differential pressure control valve. This insert includes an innovative self-adjustment feature, which enables each valve continuously to self-balance. This ensures delivery of precisely the flow rate required by each terminal unit, independent of pressure fluctuations in the system. In addition, each Green insert can be adjusted to set an accurate maximum flow limit to each circuit without stroke limitation.

The FlowCon Green 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 pressure differential across the valve is within the operating range, the Kv of the valve is regulated nonstop to keep the control valve in full authority. The FlowCon Green insert will in other words always use full stroke of the spindle offering 100% authority for any of its 41 maximum flow settings.

- **3-in-1 combi valve**, including modulating control valve, dynamic flow limiter and differential pressure control valve in one body.
- **100% authority pressure independent** - for any of each insert's 41 max. flow settings.
- **Full stroke modulation** at any design flow.
- **Easy solution to designers, installers and end-users** - due to its flexible complete solution and user-friendly setting.
- **Quick commissioning** as the insert can be **pre-set** prior to site-work or be **field adjustable** on demand.
- **Simple maintenance** - the insert can be adjusted or exchanged without removing the housing from the system.
- **"Sealed" setting** - actuator will cover the setting and **protect against tampering**.

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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: DN15-40 / 1/2"-1 1/2".

Max. operational ΔP : 800 kPaD / 116 psid.

Max. flow rates: 0.0103-1.29 l/sec / 0.163-20.4 GPM.

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

Static Pressure: 2500 kPa / 360 psi.

Green Inserts

The range covers 20 mm / 3/4" insert in high and low ΔP as well as one 40 mm / 1 1/2".

FN and FT Actuators

FN: electrical actuators 0(2)-10V modulating, 3-point floating or 2-position.

FT: thermal actuators 0-10V modulating or ON/OFF.

Housings

The FlowCon Green insert can be used with the following FlowCon housings:

- FlowCon A - DN15-25 (1/2"-1").
- FlowCon AB - DN15-32 (1/2"-1 1/4").
- FlowCon ABV - DN15-40 (1/2"-1 1/2").

Applications

Heating or cooling, Fan-coil units, Air-handler units and other terminal units - wherever dynamic balancing and fully accurate temperature control are required.

For further information visit www.flowcon.com

Application Example

Fan Coil Unit with Pressure Independent Control (PICV) - Modulating Control.

