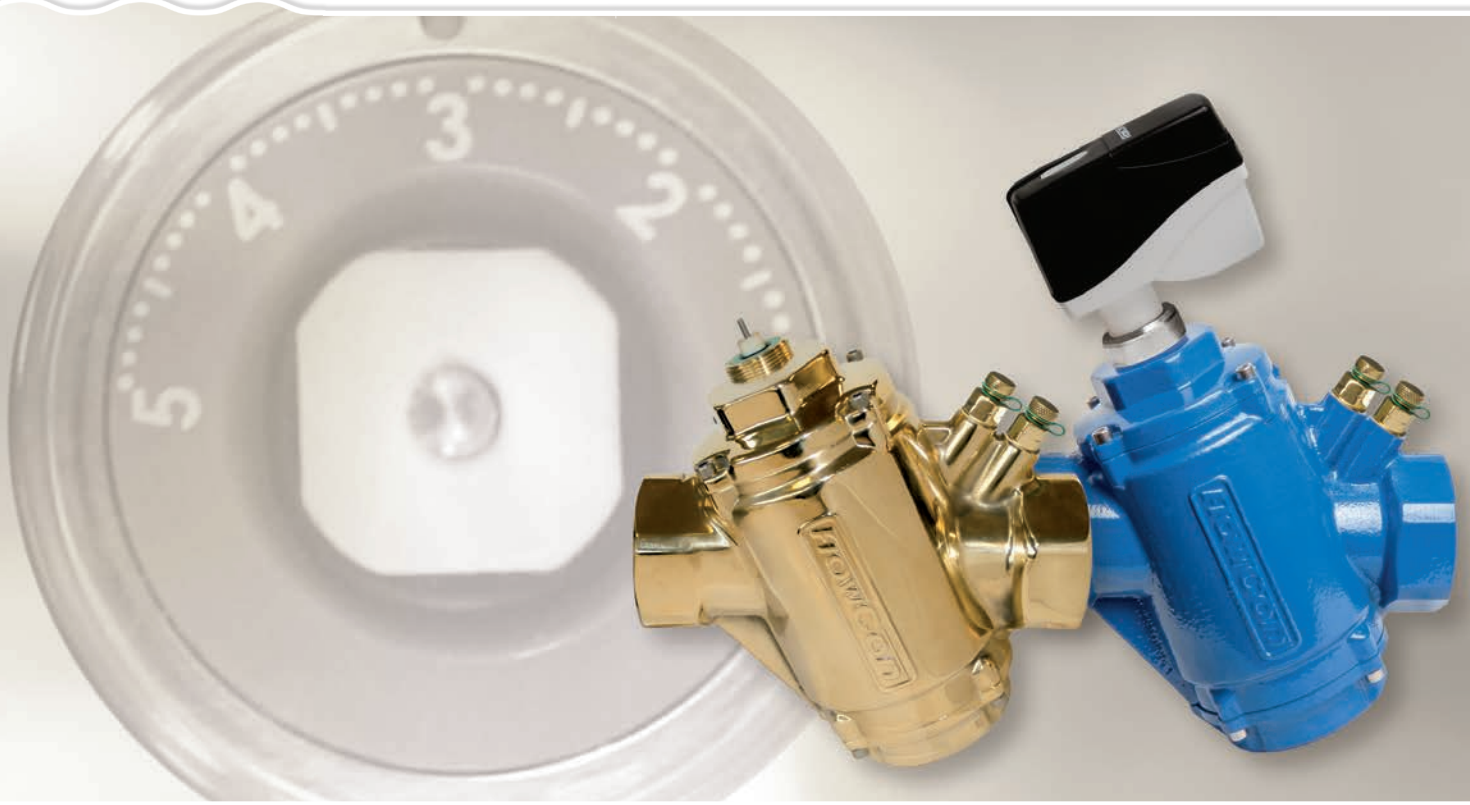


# FlowCon Green.3



## 100% Authority - Pressure Independent Control Valve

The FlowCon Green.3 valve is a pressure independent dynamic control valve which meets today's HVAC requirements of reducing building running costs without increasing initial installation costs. The FlowCon Green.3 is an essential partner in the strive for reducing operational cost, energy consumption and CO<sub>2</sub> emission.

The valve includes an innovative self-adjustment feature allowing continuous mechanical self-balancing in all valve positions. Next to this, the valve is constructed in such a way that the valve stroke is unaltered regardless which of multiple design flow settings is selected. This ensures that each thermal unit controlled by a Green.3 valve is always supplied with the exact flow required for the specific system condition.

The FlowCon Green.3 valve is a true pressure independent control valve which always holds 100% authority. As long as the pressure differential across the valve is within the operating range, the Kv (Cv) of the valve is changing and continuously regulated

to maintain required flow. Any flow below design flow is controlled with full authority via the BMS through the valve actuator.

- Compact one-unit PICV, including modulating control valve, dynamic flow limiter and differential pressure control valve in one body.
- 100% authority pressure independent - for any of the valve's pre-defined 41 max. flow settings.
- Full stroke modulation at any flow setting - for full control providing accurate flow also at reduced load.
- Easy setting and Field adjustable - flow setting is stepless and can easily be set to any design flow in the flow range. Setting can be done before or after installation and flow may be changed on demand without removing the valve from the installation.
- "Sealed" setting - actuator will cover the setting and protect against tampering.
- Standard or failsafe actuator; always incl. feedback signal - an easy solution for designers, installers and end-users.



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## 100% Authority - Pressure Independent Control Valve

### PICV with actuator

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

Size: DN40-50 (1 1/2"-2")

Max. operational  $\Delta P$ : 600 kPaD (87 psid)

Max. flow rates: 0.528-3.79 l/sec (8.36-60.0 GPM)

Mediatemperature: -20°C to +120°C (-4°F to +248°F)

Static Pressure: 2500 kPa (360 psi).

### Housings

The FlowCon Green.3 is available in ductile iron or brass and in housing sizes covering:

- DN40 (1 1/2"), female/female threaded
- DN50 (2"), female/female threaded.

### FH actuator

Green.3 valves have their own high force actuator series including a standard and a failsafe version. No matter which version you choose you will get electrical modulation or digital control from the same actuator which also, as a built-in feature, will include feedback signal for BMS verification of flow.

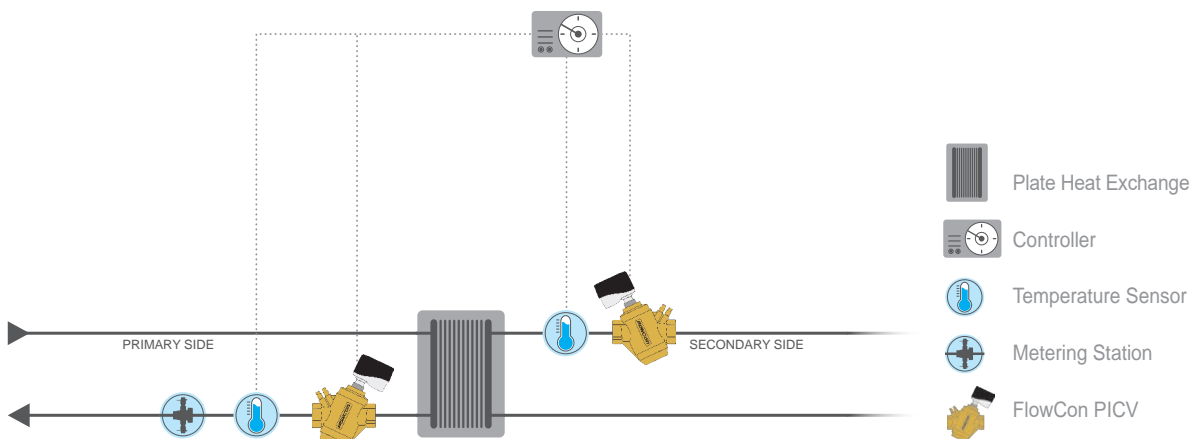
### Applications

The FlowCon Green.3 is designed to facilitate large fan coils, smaller air handling units, smaller heat exchangers or equivalent. In general, it is the optimal choice in any applications where efficient distribution of water - with focus on system pressure drop - is required. In addition, will FlowCon Green.3's low pressure drop and feedback option will make the valve ideal for Green Building projects.

For further information visit [www.flowcon.com](http://www.flowcon.com)

### Application Example

Plate Heat Exchanger with Pressure Independent Control (PICV) - Modulating Control.



**FlowCon**  
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