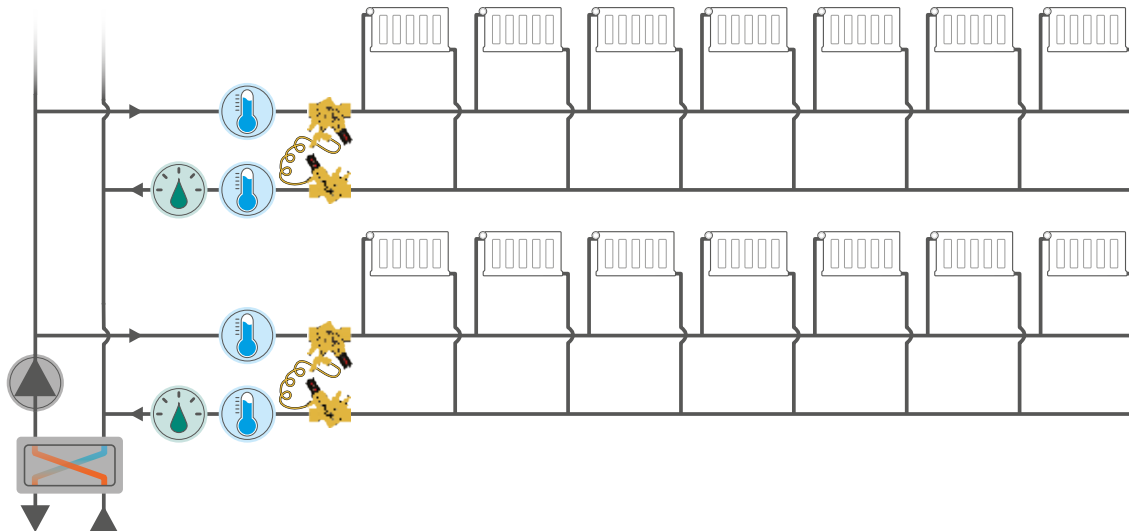


Radiators - horizontal system

with Differential Pressure Control (DPCV)



Radiator with
Thermostat



Heat
Exchanger



Pump



Temp.
Sensor



BTU
Meter



Partner
Valve



DPCV

System Functionality:

The function of a radiator system is to maintain room temperature at an acceptable level at each location no matter the outdoor temperature. Room temperature is controlled by radiator thermostats, but without further system balancing, poor control and noise may most likely be problem issues. This can be solved by installing a Differential Pressure Control Valve (DPCV) on every branch and with an orifice valve as partner valve flow limitation is also obtained.

Requirements:

The DPCV will react to system pressure changes and still keep a constant pressure, Δp_C , in the sub-circuit helping the system to balance and be accurately controlled. With controlled flow and pressure to the radiators, the radiator thermostats will assure set temperature and void the risk of too high differential pressure causing noise.

Solutions:

The solution is to mount a DPCV and a Partner Valve on every branch and FlowCon offers:

- FlowCon SDP (pre-set 10, 20 or 30 kPaD) or
- FlowCon EDP (adjustable 5-50 kPaD)
- FlowCon Composite, E-JUST, QuickDisc®, S-JUST and Partner Ball (partner valves).

Benefits:

- Prevention of noise in the system
- Security of a defined ΔP available for all branches as well as flow limitation - also at partial loads
- An easy-to-use and compact solution
- A serviceable solution due to insert-design
- Energy efficiency with regulation starting at only 3 kPaD
- Cost savings due to reduced time to balance and commission
- A proven technology.

FlowCon Partner Valves



AB Composite



AB E-JUST



QuickDisc®



S-JUST



Partner Ball

FlowCon DPCVs



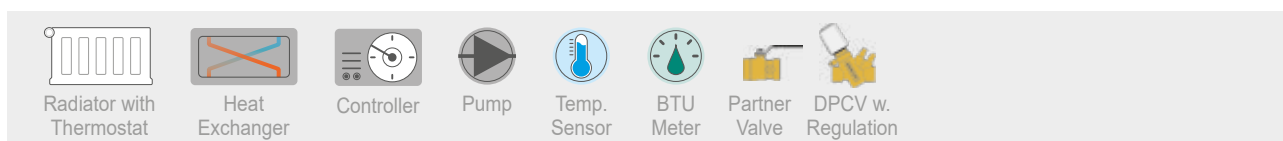
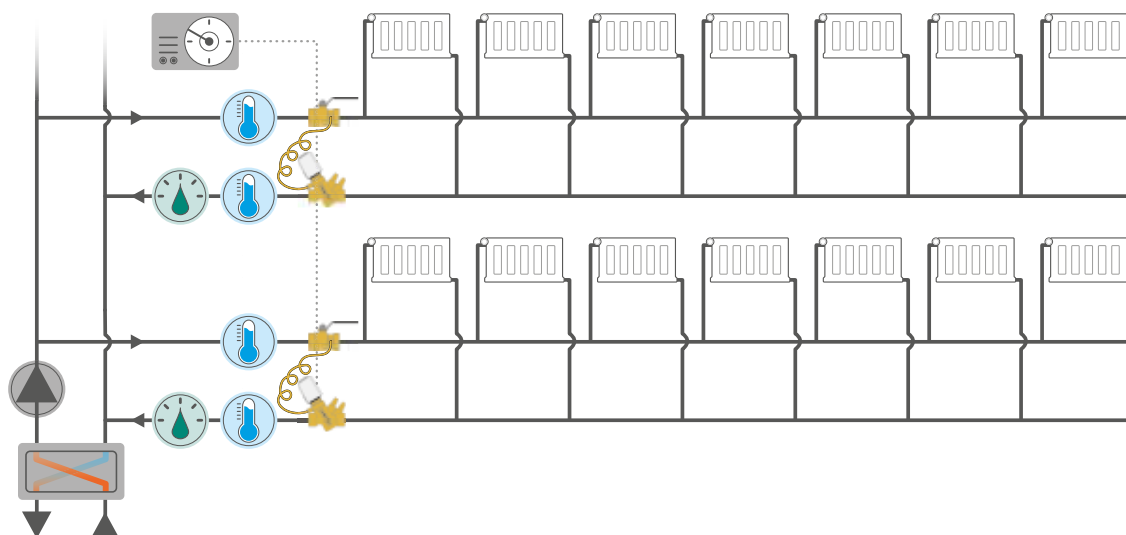
EDP



SDP

Radiators - horizontal system

with Differential Pressure Control (DPCV) - Timer Controlled



System Functionality:

The function of a radiator system is to maintain room temperature at an acceptable level at each location no matter the outdoor temperature. Room temperature is controlled by radiator thermostats, but without further system balancing, poor control and noise may most likely be problem issues. This can be prevented by installing a combi Differential Pressure Control Valve (DPCV) and Automatic Balancing Valve (ABV) on every branch. This will provide noise and flow balance and will also allow energy saving night reduction if required.

Requirements:

The DPCV will react to system pressure changes and keep a constant pressure, Δp_C , in the sub-circuit helping the system to balance and prevent noise in radiator thermostats. With controlled flow and pressure to the radiators, the radiator thermostats will assure set temperature and void the risk of too high differential pressure causing noise.

Solutions:

The solution is to mount a DPCV and a Partner Valve on every branch and FlowCon offers:

- FlowCon ADP (adjustable insert)
- FlowCon Partner Ball (partner valve).

Benefits:

- Combined ΔP and max flow limiter in one unit - incl. ON/OFF control
- Flexible solution with minimum 41 different flow/pressure settings
- An easy-to-use solution and compact design
- A serviceable solution due to insert-model
- Energy efficiency with regulation starting at only 3 kPaD
- Cost savings - recued time to balance and commission
- A proven technology
- Possible automatic night reduction.

┌ FlowCon Partner Valve ─

┌ FlowCon DPCV ─

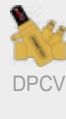
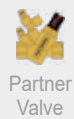
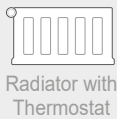
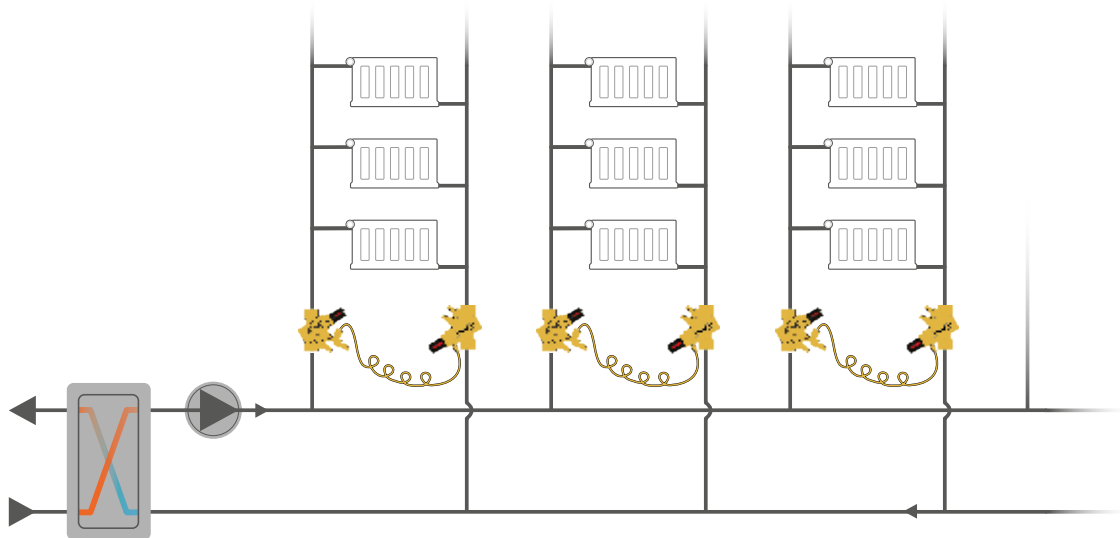


Partner Ball



ADP

Radiators - vertical system with Differential Pressure Control (DPCV)



System Functionality:

The function of a radiator system is to maintain room temperature at an acceptable level at each location no matter the outdoor temperature. Room temperature is controlled by radiator thermostats, but without further system balancing, poor control and noise may most likely be problem issues. This can be solved by installing a Differential Pressure Control Valve (DPCV) on every riser and with an orifice valve as partner valve flow limitation is also obtained.

Requirements:

The DPCV will react to system pressure changes and still keep a constant pressure, Δp_C , in the sub-circuit helping the system to balance and be accurately controlled. With controlled flow and pressure to the radiators, the radiator thermostats will assure set temperature and void the risk of too high differential pressure causing noise.

Solutions:

The solution is to mount a DPCV and a Partner Valve on every riser and FlowCon offers:

- FlowCon EDP (adjustable 5-50 kPaD)
- FlowCon Composite, E-JUST and Partner Ball (partner valves).

Benefits:

- Prevention of noise in the system
- Security of a defined ΔP available for all risers as well as flow limitation - also at partial loads
- An easy-to-use and compact solution
- A serviceable solution due to insert-design
- Energy efficiency with regulation starting at only 3 kPaD
- Cost savings due to reduced time to balance and commission
- A proven technology.

┌── FlowCon Partner Valves ───┐

┌── FlowCon DPCVs ───┐



AB Composite



AB E-JUST



Partner Ball



EDP