SIEMENS

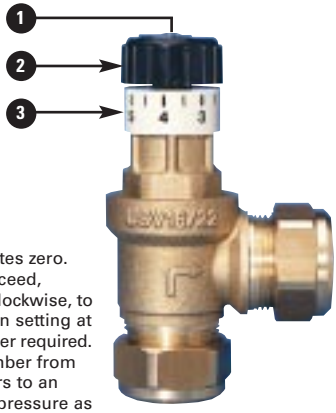
BPV22
Installation Instructions

IMPORTANT!
Please read these instructions before installation.

Setting

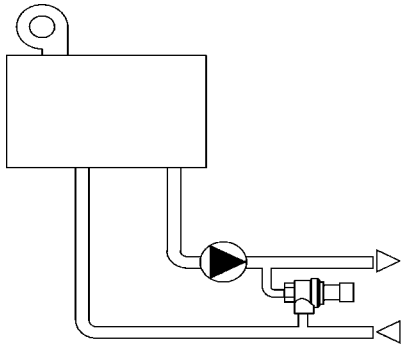
- Loosen locking (safety) screw (1).
- Set the BPV (by-pass valve) at the opening pressure (P) by turning regulation knob (2). The opening pressure (P) should be approximately 20% above the system resistance in order that abortive valve opening be prevented. When the user circuits are completely closed, the BPV (by-pass valve) will be fully open.

  Turn regulation knob anti-clockwise until scale (3) indicates zero. Then proceed, turning clockwise, to calibration setting at the number required. Each number from 0 - 7 refers to an opening pressure as shown in the table below.

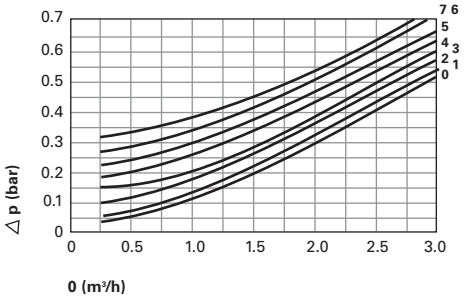


- When setting has been completed, tighten locking (safety) screw (1).

Specifications
Body in brass B6
Temperature max. 110°C
Pressure max. 6 bar



USVR16/22
Flow rate - Differential pressure



Operation
By-Pass Valves are designed to be fitted in all heating systems where thermostatic radiator valves (TRVs) are installed so as to maintain a minimum flow rate in the system. When all TRVs are fully open the BPV (by-pass valve) will remain closed and the full boiler output will circulate through the system. As the TRVs close the BPV (by-pass valve) will start to open thus maintaining optimum flow rate through the boiler. Installing a BPV (by-pass valve) will minimise the noise and vibration often experienced when flow through the boiler diminishes.
The BPV (by-pass valve) should be fitted between the flow and return side of every system. As the TRVs close, the by-pass valve opens to deliver supply water to the return line.

By-pass valves also ensure:

- Constant water circulation through the boiler, an especially important point in gas fired boilers
- High return water temperature to inhibit rust.

Fitting
BPVs (by-pass valves) should be fitted after the pump (circulator) between the Flow and the Return (see scheme).
Do not use a spanner or wrench on the upper hexagonal part of the valve. Use hexagonal part below.