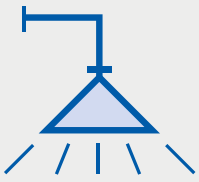
Thermostatic regulator

116 series

www.caleffi.com

Pb LOW LEAD

- Specifically designed for the recirculation circuit of domestic hot water distribution systems.
- Complete with pocket for temperature gauge or temperature probe for remote control of the effective circuit temperature.
- Installed on each branch of the recirculation circuit, this device automatically maintains the set temperature by modulating the medium flow rate at the inlet.
- In compliance with the latest system design regulations, it balances the recirculation network to prevent unbalanced temperature distribution.



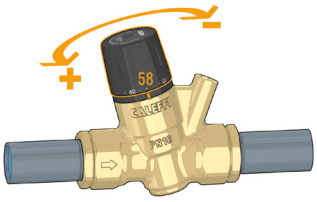
CALEFFI Hydronic Solutions

TECHNICAL SPECIFICATIONS

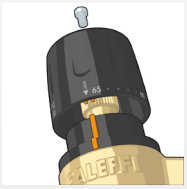
Body	"LOW LEAD" dezincification resistant alloy
Max. working pressure	16 bar
Temperature adjustment range	40–65 °C

TEMPERATURE ADJUSTMENT

The temperature is set at the desired value by turning the upper screw with the special knob. The graduated scale shows the temperatures at which the indicator can be set. It is recommended to set the valve temperature at a value about 5K greater than the water temperature at the valve inlet, taking into account the heat losses along the line, to limit the head required at the recirculation pump. Mind to ensure the minimum flow rate at the mixing valves in the central heating system.

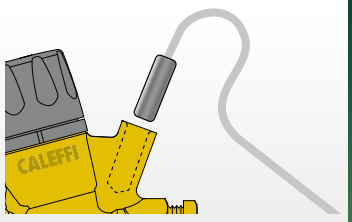


After adjusting the temperature, the setting can be locked at the desired value using the control knob.



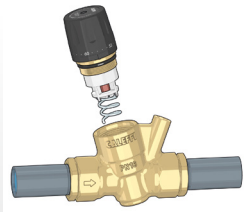
CONSTRUCTION DETAILS

The temperature gauge pocket can also be used for inserting a special immersion probe (with Ø < 10 mm).



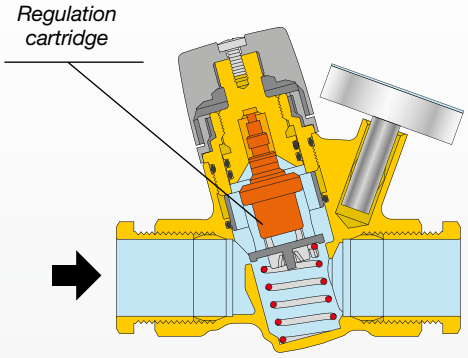
MAINTENANCE

The adjustment strainer can be removed from the valve body for checking, cleaning or replacement.

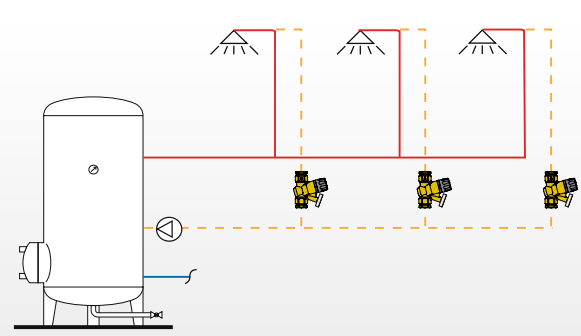


OPERATING PRINCIPLE

This device modulates the medium flow rate in accordance with the water inlet temperature by means of the action of a dedicated internal thermostatic cartridge. When the water temperature approaches the set value, the obturator progressively reduces the passage. The medium flow rate supplied by the circulator pump is thus distributed to the other network branches, resulting in effective automatic thermal balancing.



APPLICATION DIAGRAM



REFERENCE DOCUMENTATION

116 Series - Tech. brochure 01362

CALEFFI Hydronic Solutions

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