



# THERMOSTATIC BALANCING VALVE

20MM

**CALEFFI**  
Hydronic Solutions



ATS 5200.468  
C of C 040195



## *AUTOMATIC BALANCING OF HOT WATER FLOW AND RETURN SYSTEMS*

### FUNCTION AND FEATURES

- **Accurate balancing of each circuit**  
No 'trial and error' or guessing of flow rates. The ideal flow is always achieved.
- **Reduced commissioning cost.**  
Just 'set and forget' the temperature with no experience or expensive equipment required.
- **Dynamically balances each circuit**  
The valve automatically adjust to fluctuating demands and system changes.
- **Dry fit thermometer**  
Easily adjustable between 40 - 65°C and can be verified on the supplied temperature gauge.

## PRODUCT DETAILS

The thermostatic regulator, installed on each return branch of the recirculation circuit, automatically maintains the set temperature. This device modulates the 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 flow rate supplied by the recirculation pump is thus distributed to the other network branches, resulting in effective automatic thermal balancing.

### Temperature Setting

The regulator is supplied with a factory temperature setting of 58°C. The temperature is set at the desired value by turning the adjustment knob. The graded scale shows the temperatures to which the indicator can be set. After adjustment, the knob can be removed and repositioned over the locking slot to prevent tampering.

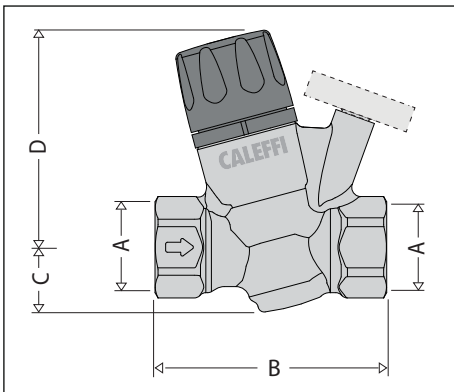
### Checking Temperature

The valve is supplied with a temperature gauge which allows for a quick check that the valve is balancing the water to the correct set temperature. The temperature gauge pocket can also be used for automatic temperature monitoring to a BMS system by inserting a 10 mm immersion probe. This probe should be sourced from your BMS provider in order to ensure compatibility with their system.

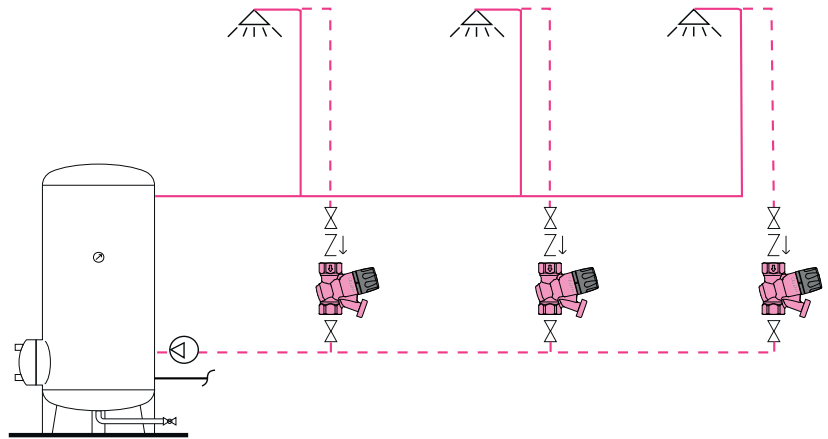
PERFORMANCE	
TEMPERATURE ADJUSTMENT RANGE	40-65°C
TEMPERATURE CONTROL	± 2°C
KV MAX (m³/h)	1.8
KV MIN (m³/h)	0.3
KV (DT = 5°C) (m³/h)	0.6
MAX WORKING TEMPERATURE	90°C
MAXIMUM WORKING PRESSURE	1,600kPa
MAX DIFFERENTIAL PRESSURE	100kPa
TEMPERATURE GAUGE	Ø 40mm

CODE	DESCRIPTION
116451	Thermostatic Balancing Valve 20mm

## DIAGRAM



CODE	116451
A	20mm
B	76.5
C	21.5
D	71.5



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**All Valve**  
INDUSTRIES

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