

**SALUS**  
CONTROLS

**INNOVATION on  
the MARKET**



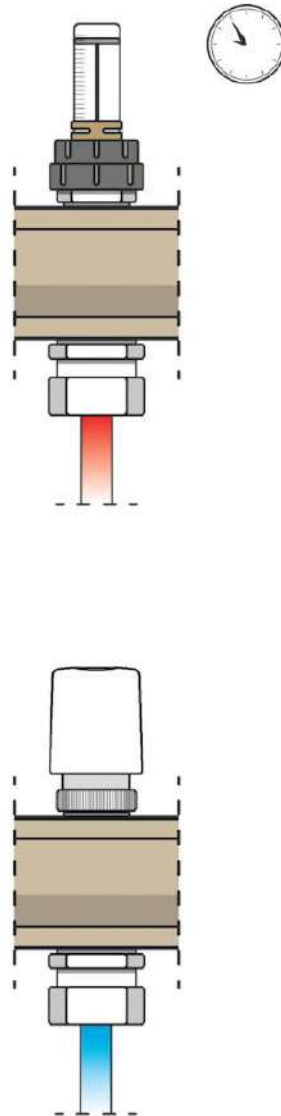
**THB23030**  
AUTO-BALANCING ACTUATOR



# How does it work?

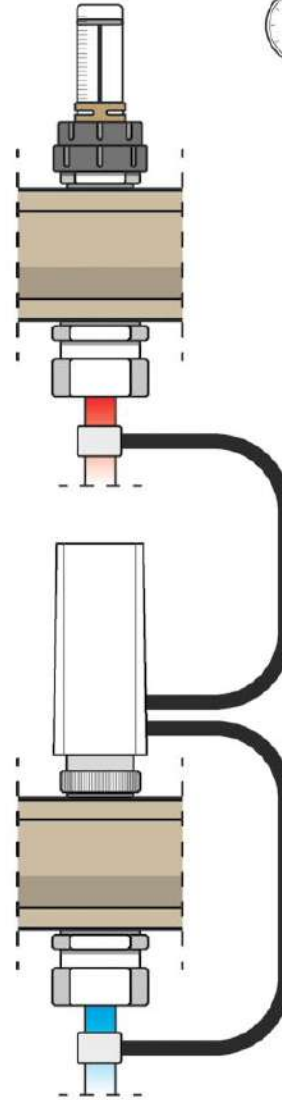
## Manually controlled hydraulic system:

- ❖ The amount of water needed to heat-up the surface is regulated only by the flow meter
- ❖ In most cases, the indication of the flow meter "on the feel"
- ❖ Actuator works according to open / close position
- ❖ A vast majority of all systems **are not hydraulically balanced!**



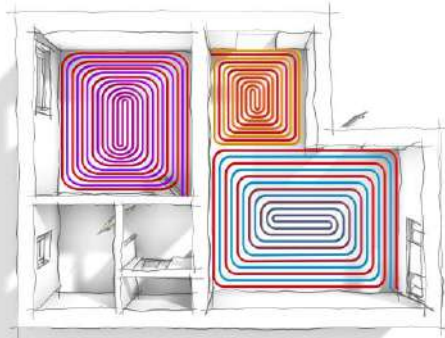
## Automatic regulation by using THB23030 actuator:

- ❖ It has the sensors used to measure flow and return temperatures
- ❖ It measures temperature difference and keeps it balanced (on the same level)
- ❖ Continuously regulates valve opening
- ❖ Works on fully open flow metres (or on systems without them)

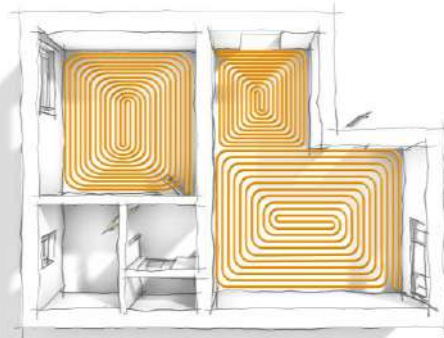


# Do you know how many factors have influence on proper regulation?

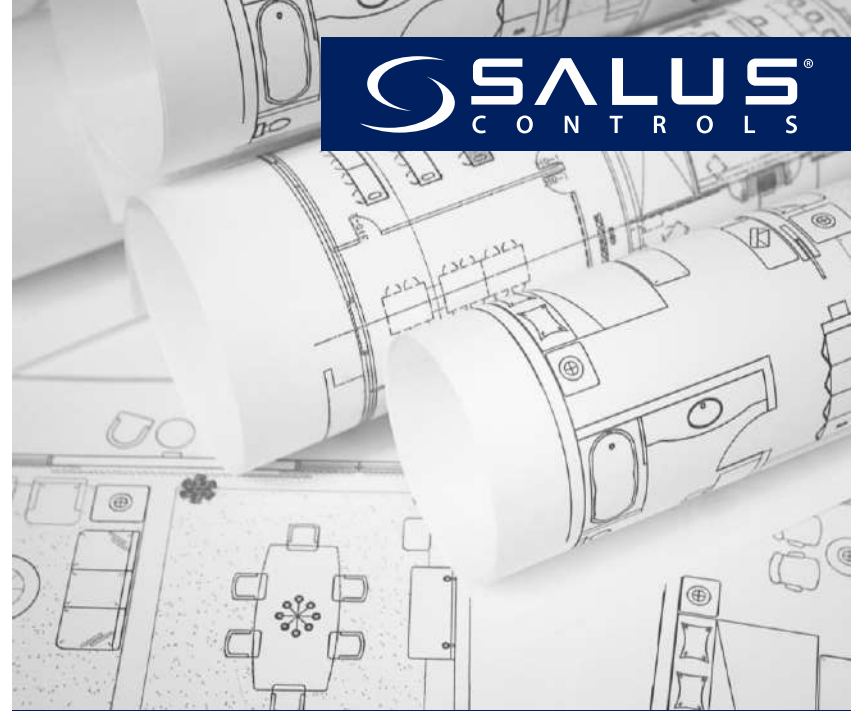
- ❖ Lack of plans or precised calculation of the system for power demand
- ❖ Various length and concentration of the heating loops



By manually controlled hydraulic system you may not be able to ensure equal temperature in each of heating loops

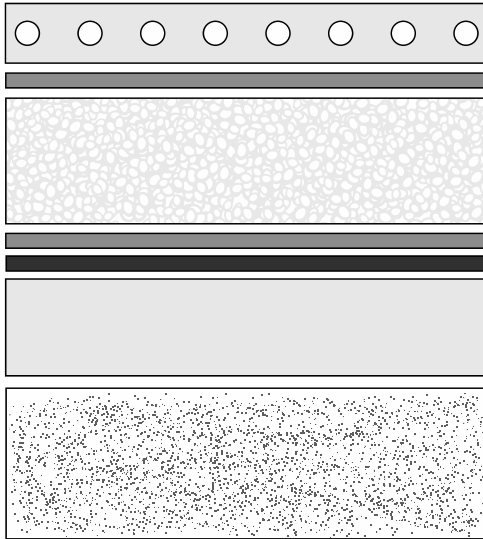


Automatic regulation by using THB23030 actuator remains equal temperature for each surface



# Do you know how many factors have influence on proper regulation?

## ❖ The quality and the completion of underfloor heating installation



- Concrete with pipes
- Foil
- Polystyrene
- Foil
- Vapour barrier (underlay)
- Lean concrete
- Sand

## ❖ The type of floor used (panels, tiles, etc.)

## ❖ Arrangement of heated rooms



**After some time, the settings may turn out to be ineffective by:**

❖ **The uncertain quality of constantly working and exploiting flowmeters**

❖ **Interior make-over**

❖ **Sudden change in the weather**



# THB23030

One product for several problems

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Even **90%** of CH installation **is not balanced properly!**\*

By steady **temperature measurement** (at the start and end of the loop), actuators maintain optimal difference of temperature ( $\Delta T$ ) and adjust **automatically** water flow.

Hydraulic calibration reduces annual energy consumption by **10–20 kWh/m<sup>2</sup>**

It gives savings around **240€** for houses of 100m<sup>2</sup> area.

## THB means:

- ❖ 3 easy steps in „Fit and Forget” installation
- ❖ Saving time and „peace of mind” – no necessity of extra visits or system calibration
- ❖ Efficient and effective heating system – even with various length of the heating loops or interior make-over
- ❖ Works on fully open flow metres (or on systems withouth them)
- ❖ Tested and approved by:



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**5**  
YEAR  
WARRANTY



MODEL: THB23030  
CE  
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**THB23030**

AUTO BALANCING ACTUATOR

More information about THB23030  
Auto-Balancing Actuators

[www.salus-thb.eu](http://www.salus-thb.eu)

Full range of products available at

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