

## OPTIMA Compact Thermostat

### with Remote Sensor for Water and Air

#### Application

Thermostat with M30 x 1.5 connection suitable for the OPTIMA Compact PICV with 2.5 mm stroke.

The thermostat is a self acting proportional controller for temperature control applications including fan coil units, hot water tanks and heat exchangers.

The remote sensor can be directly immersed into the medium or alternatively a sensor immersion pocket can be supplied separately as an accessory.

#### Design

The thermostat consists of:

- Housing with lid and socket
- M30 x 1.5 connection with a 11.5 mm closing dimension
- Liquid-filled sensing element with capillary tube (length 2 m)
- Connection nut

#### Function


The thermostat closes at rising temperature.






#### Features

- Liquid-filled sensing element
- Memory-clip
- Concealed limiting and blocking tabs

#### Product programme

	Frese no.	OPTIMA Compact valve dim.	For valve stroke
	53-1990	DN10-DN20	2.5 mm

#### Accessories

	Frese no.	Product
	53-1991	Sealing - 1/2" for direct installation of the temperature sensor in the pipe or tank
	53-1992	Sensor pocket AISI 316 - 1/2"
	53-1993	Plug for sensor pocket - 1/2"

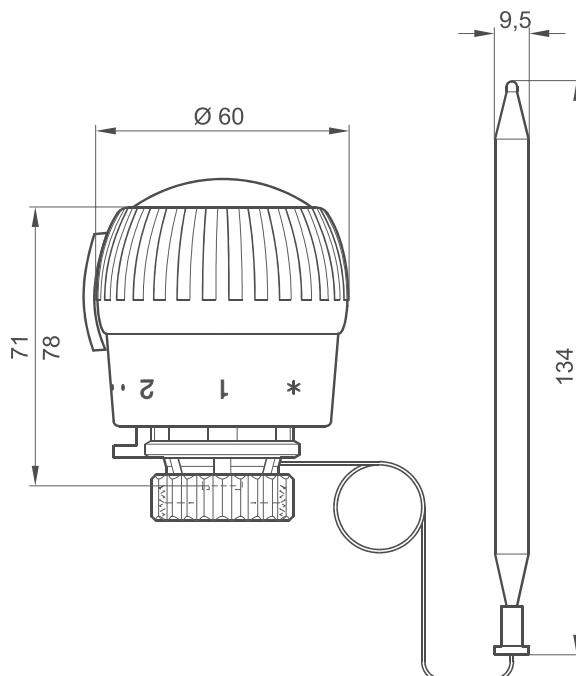
# OPTIMA Compact Thermostat

## with Remote Sensor for Water and Air

### Technical Data

<b>Handwheel Color:</b>	White, RAL9010
<b>Socket and spindle:</b>	Plastic
<b>Sensor:</b>	Liquid-filled copper phial
<b>Capillary tube:</b>	Nickel-plated copper
<b>Connection nut:</b>	Nickel-plated brass
<b>Thermostat connection:</b>	M30 x 1.5
<b>Operating temperature:</b>	Max. 120°C
<b>Setpoint range:</b>	2-7
<b>Temperature range:</b>	20-70°C
<b>Closing dimension:</b>	11.5 mm
<b>With temperature sensor installed directly in the pipe:</b>	PN10

### Dimensions



### Setpoint

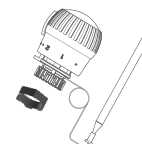
Setpoint	2	3	4	5	6	7
°C	20	30	40	50	60	70

Note!: All °C are approximate

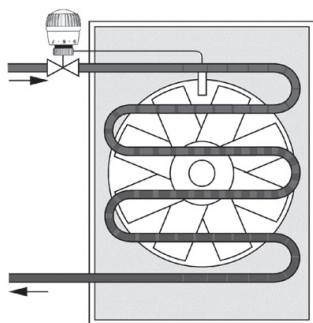
### Assembly

The locking adapter must be mounted inside the thermostat before mounting it on the valve.

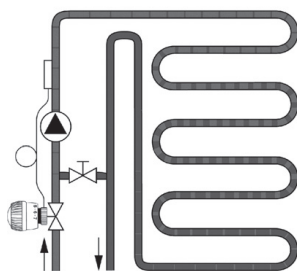
Please assemble the valve and thermostat using tools as shown.



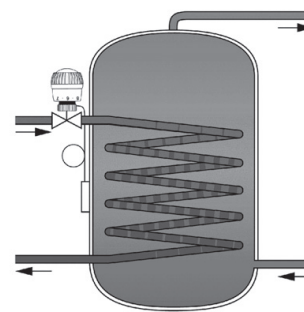
### Installation examples



Control of air heater



Mixer control for underfloor heating



For hot water storages and heat exchangers

The thermostat can be placed in both inlet and outlet.

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Vexve Denmark | Frese A/S  
Tel: +45 58 56 00 00