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

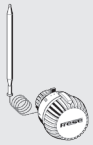
Function

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 - ½" for direct installation of the temperature sensor in the pipe or tank
	53-1992	Sensor pocket AISI 316 - ½"
	53-1993	Plug for sensor pocket - ½"

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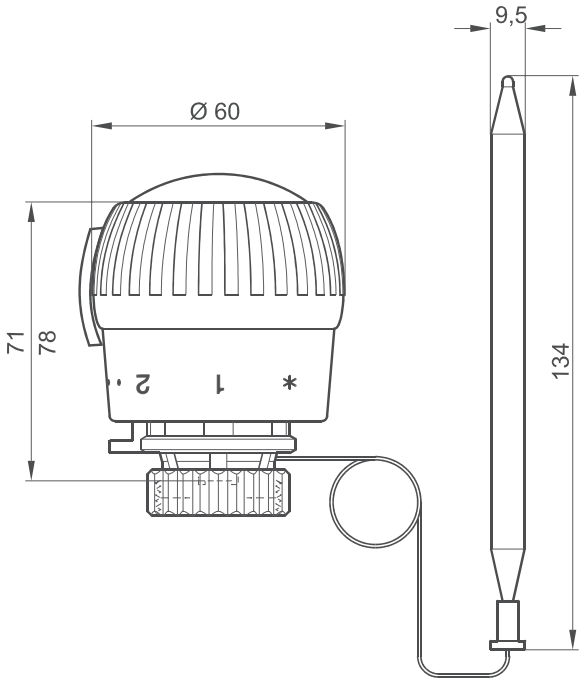
Technical Data

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

Dimensions



Setpoint

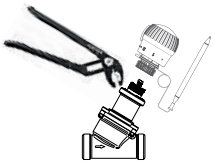
Setpoint	2	3	4	5	6	7
°C	20	30	40	50	60	70

Note!: All °C are approximate

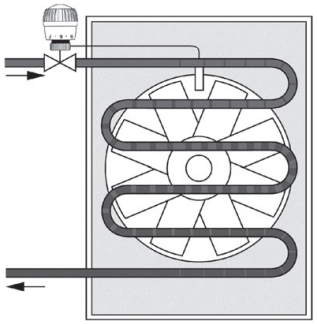
Assembly

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

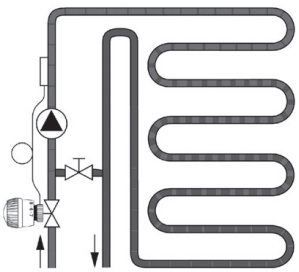
Please assemble the valve and thermostat using tools as shown.



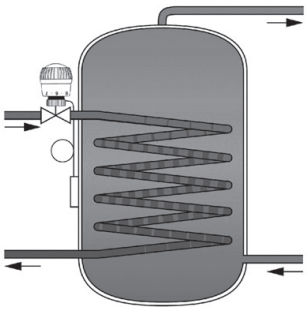
Installation examples



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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