

## Frese OPTIMA Compact thermostat with remote sensor for water and air

### Application

Thermostat with M30 x 1.5 connection suitable for Frese OPTIMA Compact 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.

### Function

The thermostat closes at rising temperature.

### 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

### Materials

The thermostat consists of:

- White RAL9010 handwheel
- Socket and spindle construction made of plastic
- Liquid-filled copper sensor phial with nickel-plated copper capillary tube
- Connection nut made of nickel-plated brass



### 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
	53-1993	Plug for sensor pocket - 1/2"
	53-1992	Sensor pocket AISI 316 - 1/2"

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### Specifications

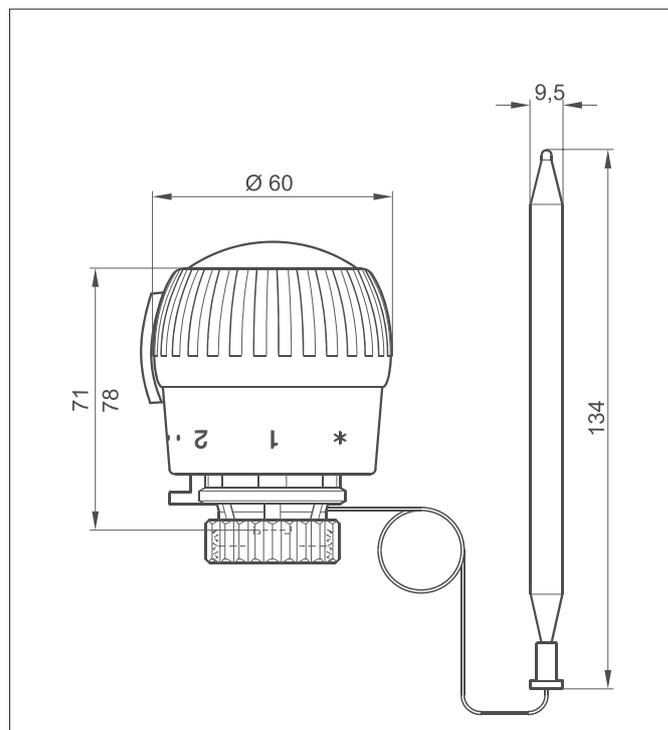
Operating temperature	Maximum 120°C
Thermostat connection	M30 x 1.5
Setpoint range	2-7
Temperature range	20-70°C
Closing dimension	11.5 mm

### Setpoint

NOTE: All °C approximate

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

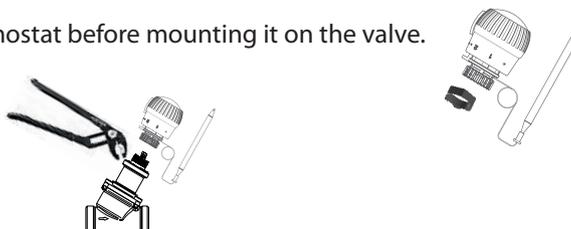
### Dimensions



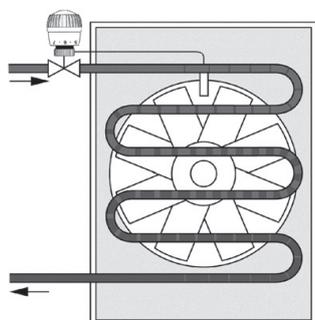
### Assembly

Check the locking adapter is mounted inside the thermostat before mounting it on the valve.

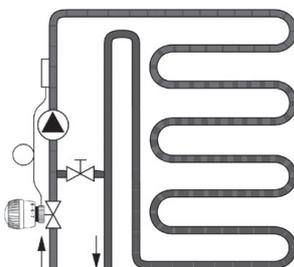
Please assemble the valve and thermostat using tools as shown.



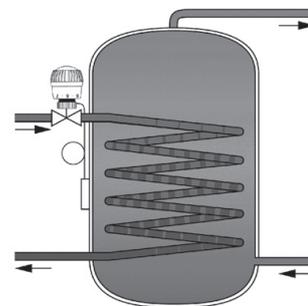
### Installation examples



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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