Tech Data **111PD**

Available types of connection *- M30x 1.5*

Setting range:

Thermostatic heads with frost protection

From 8°C to 30°C marking at the scale: *- 1 – 2 - 3 – 4 – 5 – 6

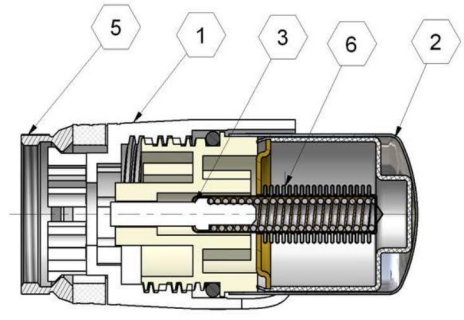
Scale		*	1	2	3	4	5	6
Temperature		8°C	12°C	16°C	20°C	24°C	28°C	30°C

Max working temperature 40 ºC

Max temp. of safe keeping 50 ºC

Hysteresis 0,2ºK

Response time ~ 18 min



Structure and operating principles

1 Body

2 Sensor - adjustment knob

3 Piston

5 Nut

6 Liquid sensor

Thermostatic head contains built in sensor (6) filled with liquid of high expansibility. Liquid, located inside of the regulation knob (2) is able to dilate or reduce proportionally to the rise or fall of room temperature, registering even it's slightest variations.

When temperature of surrounding rises liquid expands and through the axial movement of pusher (3) influence the position of valve obturator, thus controlling the valve action. By closing and opening the valve plug it's possible to regulate flow of heating medium. When the temperature falls the reverse takes place – the bellows contracts as a result of thrust generated by the return spring.

Thermostatic heads by OTTINETTI accurately maintain internal room temperatures at the level set by the occupant. Setting required value is achieved by turning the regulation knob, as numbers at the scale tape correspond with a proper temperature. Turning the knob clockwise one reaches reduction of the room temperature; to cause an increase of the temperature, knob should be turned anticlockw

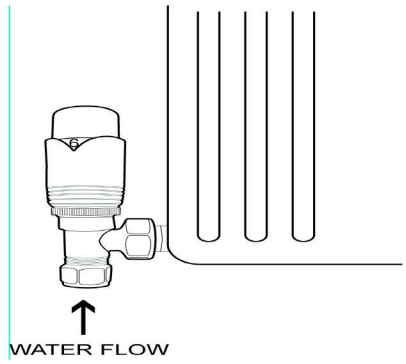
Block and temperature programming

And 'you can lock the device according to a numbering and determining the programming. The block and the temperature programming can be done after removing the head from the radiator through the use of special codes placed on the body of the head. The block and the program are accomplished through a simple change of the position of the holes, numbered "0" to "6.

Holes numbered from „0" to „6

THERMOSTATIC ANGLE VALVE SET
INSTALLATION AND USER GUIDE

Location
The OTTINETTI TRV is to be fitted in a vertical position. It is important to ensure that the flow of the water is in the direction shown in the diagram.



The thermostatic head should be located so that it can constantly sense the temperature of the free air circulating in the room. Try to ensure that the thermostatic head is never conceled behind curtains or closley obstructed by shelving or furniture.

Fitting instructions for Angled Thermostatic Valve Body and Thermostatic Head

Note:
1 Read fitting instructions carefully.
2 Screw ½" BSP tail (C) into radiator, tighten by hand and finish with a half turn with a suitable Allen Key.
3 Connect valve body to tail and tighten nut (D)
4 Cut and fit copper tube to valve body.
5 Tighten copper compression joint (B) hand tight and finish with a half turn with a spanner.
6 Remove the protection cap (A) and store in a safe place for future use.
7 Unscrew the protection cap (A) from the thermostatic valve body. Turn the dial (F) to the maximum - which corresponds with the ''6'' setting.
Position the head so that the scale tape (E) is clearly visible. In this position locate the head on the valve body and tighten the knurled locking nut (H) by turning clockwise. Do not use screw driver or pliers for installing.
8 Set thermostatic head to required setting.

Caution Connections must not be over tightened as this may cause the 'split olive' and the 'seal' not to be watertight.

User Guide
The OTTINETTI TRV is designed to react quickly to temperature fluctuations and allows you to the temperature to individual rooms.

Initially set the TRV to the required room temperature from the table below. The TRV should be left for at least 1 hour to allow the temperature to stabilise. If a lower or higher room temperature is required simply adjust the setting accordingly and repeat the process.

scale	*	1	2	3	4	5	6
temperature	8℃	12℃	16℃	20℃	24℃	28℃	30℃

Note. The TRV settings are factory calibrated as indicated by the table. However these temperatures mar vary slightly depending on the nature of the installation.

If your home is to be left unattended for any length of time the TRV can be set to the frost protection setting (''*'') Then provided that the boiler is in operation if the temperature in the room falls below 8℃ the valve will automatically open giving protection against freezing.