

#### 4. Range Limiting or Fixed Set Temperature

The BOSS TRV has the facility for fixing the thermal head or a set temperature or to limit the range of operation. This is achieved by using the two pegs provided with this product.

To obtain a fixed set point locate a peg in the slot either side of the selected setting and push home.

To set a limited range for temperature control, first locate a peg in the slot to the right of the viewing window for the lowest temperature setting required. Adjust the valve head to display the maximum temperature desired. Locate a peg in the slot to the left side of the viewing window. Push both pegs home. The head will now be adjustable between the selected range of temperature.

#### 5. Frost Protection

If you plan to be away from home for any length of time the TRV can be turned to the frost protection setting "★". If the temperature falls below 7°C the valve will automatically open giving protection against freezing. (Provided that the boiler remains in operation via a frost stat.)

#### 6. Removal of Radiator

The "0" Setting on the TRV is a positive "OFF" position. This will enable a radiator to be removed for maintenance purposes.

To avoid accidental operating of the valve or damage whilst decorating the manual shut off cap may be used for added security instead of the TRV head. In this case remove the TRV sensor head by unscrewing the securing ring and replacing with the manual cap BEFORE removing the radiator.

# BOSS™

## THERMOSTATIC RADIATOR VALVE & LOCKSHIELD VALVE PACK with REVERSE FLOW

### TECHNICAL DATA

Temperature range	7°C - 28°C
Maximum Test Pressure	20bar
Maximum Static Pressure	10bar at 120°C
Maximum Differential Pressure	0.6bar
Maximum Water Flow Temperature	120°C
Inlet Connection	Dual 15mm compression 1/2" (BSP)

For technical advice please ring: 0870 1200285

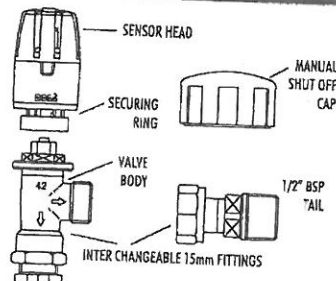


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# BOSS™

## THERMOSTATIC RADIATOR VALVE & LOCKSHIELD VALVE PACK with REVERSE FLOW

### Installation and User Guide

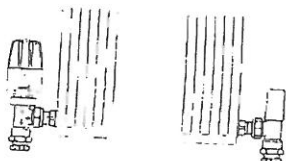


## INSTALLATION

### Location

The BOSS TRV is designed to operate with water flow in either direction. The 1/2" BSP x 1/2" size may be fitted in the vertical position only.

The sensor head of the TRV should always be located so that it can constantly sense the temperature of the free air circulating in the room.



The sensor must not be covered by curtains, concealed behind panels or hidden under shelves.

### Fitting

The BOSS TRV can be fitted as easily as a manual radiator valve.

To avoid the problem of hydronic (water flow) noise it is recommended that the differential pressure does not exceed 0.2 Bar. It is strongly recommended that a pressure differential valve be fitted to any system fitted with TRVs. The by-pass fitted in a boiler is not adequate for use as a system by-pass.

The lockshield valve supplied is fitted in the same way as steps 1-4 below and must also be set to control the water flow through the radiator to the correct level.

1. Screw 1/2" BSP tail of the BOSS TRV into radiator tapping using suitable jointing material e.g. PTFE tape.
2. If using screwed tube first ensure threads are clean and de-burred. Using a suitable jointing material (e.g. PTFE Tape) screw the valve body onto the tube aligning the valve body with the radiator tail.
3. Connect the valve body to tail and tighten nut.
4. Cut and fit copper tube (where appropriate) to valve body tightening nut and cone.
5. Remove manual shut off cap and store safely.
6. Turn sensor head to indicate "5" in setting window.
7. Position sensor head so that setting window can be viewed and hand tighten securing ring onto valve body.
8. Set sensor head to required temperature setting.

Note: The BOSS TRV is supplied with range locking and limiting pegs. See section 4 under User Instructions for range locking or limiting.

## USER INSTRUCTIONS

### 1. Operating Description

The influence of uncontrolled heat gains from cooking, lighting and sunshine etc., can lead to wasteful overheating. The BOSS TRV is designed to react to temperature fluctuations and allow you to control individual room temperature.

The sensor head contains a powerful wax-filled sensor which senses temperature changes. These variations cause expansion and contraction of the thermal element which is transmitted to a valve seat which regulates the water flow to the radiator.

### 2. Setting the TRV

Initially set the TRV to the required room temperature from the table in (3) e.g. Position 3 - 20°C. The TRV should be left for at least 1 hour to allow the temperature to stabilise. If a higher or lower room temperature is required simply adjust the setting accordingly and repeat the process.

### 3. Temperature Settings

The TRV settings are factory calibrated as indicated in the table below.

0	★	1	2	3	4	5
Shut Off	7°C	11-13°C	15-17°C	19-21°C	23-25°C	27-29°C

Note: These temperatures may vary slightly, depending upon the nature of the installation.