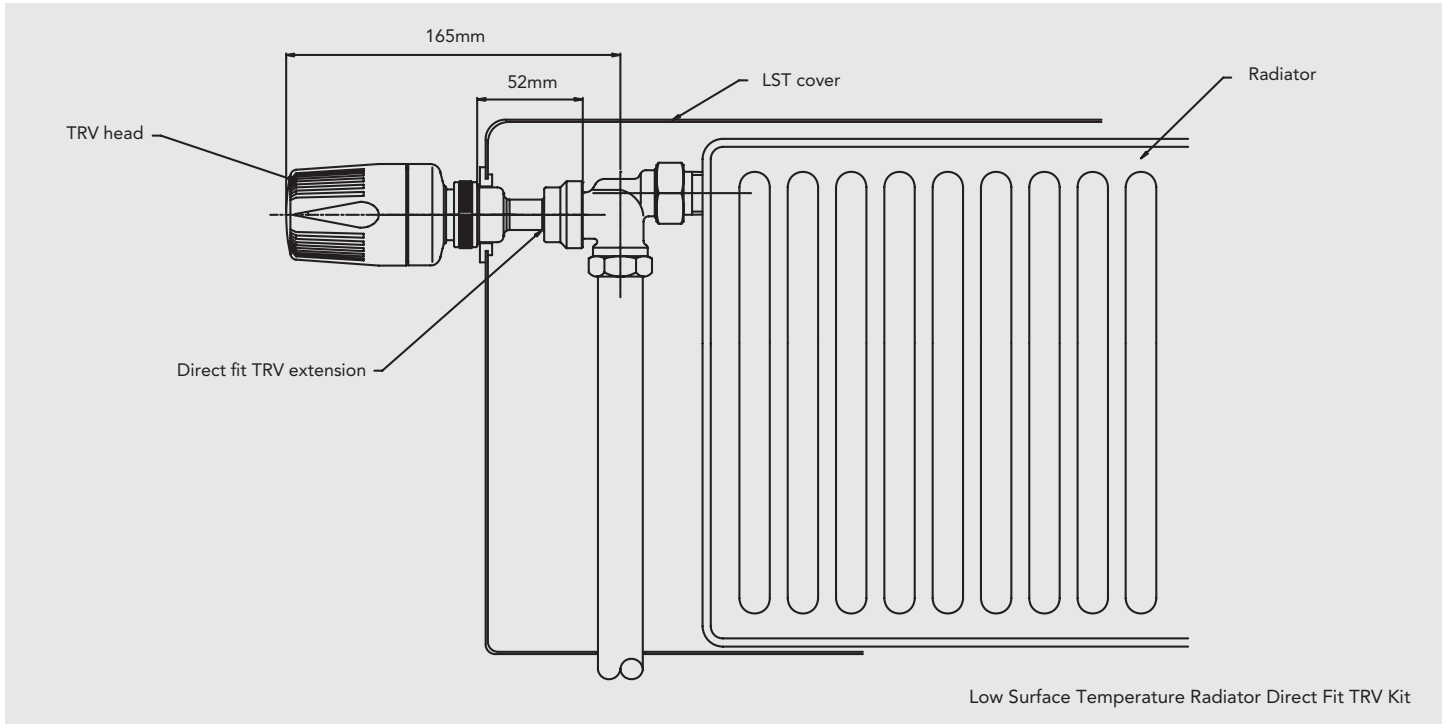


# FITTING INSTRUCTIONS FOR DIRECT FIT TRV.

## LST RADIATORS

### Application



This kit allows a TRV body to be directly fitted to the radiator with the sensing head projecting beyond the enclosure. The kit also includes a manual lockshield valve (to BS2767-10).

The thermostatic valve must be positioned in the flow at one of the top radiator connections. Left or Right hand fitting is allowed.

Access for maintenance is possible without disturbing plumbing

connections but will involve the disconnection of the sensing head coupling unit. (See instructions below).

A security collar is available as an accessory and may be applied after fitting. NOTE: The anti theft ring is not suitable for this application.

### Fitting

1. Fit the LST Radiator in the normal way following the instructions packed with the radiator.
2. Fit the thermostatic valve body to top of the radiator with the inlet connection facing **VERTICALLY DOWNWARDS** and complete other plumbing connections. The angle of the valve must **NOT** be altered to give pipework offsets. If needed this must be done elsewhere in the flow pipe.
3. The manual valve must be fitted to one of the bottom connections.
4. Remove the larger half sheared blanking disc at the appropriate end of the LST enclosure. Support the enclosure and using a hammer and suitable sized punch strike the blanking disc firmly to break its connection, if necessary twist or flex the disc for final removal.
5. Complete the fitting of the LST Radiator and fit the enclosure, paying particular attention to fitting the enclosure correctly over the radiator.
6. Push the plastic bush into the hole in the enclosure and ensure that it snaps fully into position.
7. Offer up the extension adaptor to the head of the valve by passing it through the bushed hole. Fix securely (without over tightening) making sure that the valve body does not twist.
8. Fit the Thermostatic Valve head to the extension adaptor with the indicator marks aligned as required for operation.

### Maintenance Access

For access to the radiator after commissioning, remove the security collar if fitted and then unscrew the knurled ring to remove the Thermostatic Valve head. Using a suitable spanner unscrew the extension adaptor. The enclosure may now be lifted and opened to give internal access.

Refit the extension adaptor, thermostatic head and security collar as for initial fitting.

## Temperature Locking and Limiting

Your Thermostatic Radiator valve has a locking or limited range adjustment facility to prevent unauthorised adjustment in public areas or by children in the home.

### Locking

First - Set the Selector to the required level. Insert the first locking pin into the opening in line with the 'circular black' marking. Without altering the set position insert the second locking pin into the opening in line with the 'black dot' marking.

### Limiting

#### High Limit

First - Set the valve temperature to the highest required level; insert the first locking pin into the opening in line with the 'black dot' marking.

#### Low Limit

Set the valve temperature to the lowest required level, insert the second locking pin into the opening in line with the 'circular black' marking.

#### IMPORTANT

When removing the radiator replace the selector head with the manual commissioning cap supplied, and close the valve fully.

### Setting Valve

Set the TRV-2-Way to the desired comfort level.



## Technical Information

Maximum operating static pressure	10bar	Frost Setting	8°C
Maximum water temperature	120°C	Limiting and Locking	Ca 1°C
Hysteresis	<0.5K	Maximum Differential Pressure	0.6bar
Setting Range	8 - 28°C		
Normal Setting	Ca 20°C		

## Siting of TRV's

A TRV should be positioned where it is able to sense the air temperature changes in the room. It should not be in direct sunlight or in a location that does not allow adequate circulation of air, such as behind curtains or doors or in the corner of a room. In situations

where optimum positioning is not possible a Remote Sensor or a Remote Adjuster should be used.

## Automatic By-Pass Valves (ABV's)

It is recommended that a Automatic By-Pass Valve be fitted between the flow and return immediately after the pump in systems having Thermostatic Radiator Valves installed. Where a combination boiler is installed, or the pump head capacity is greater than 0.6bar (6m water gauge) it is essential that an Automatic By-Pass Valve is fitted.

In larger systems it may be necessary to fit more than one ABV in order to prevent the differential pressure in any one leg of the system exceeding the stated maximum.