

## Spirax Sarco Type DHF2 Cylinder Control Installation and Maintenance Instructions

### Installation

1. The purpose of the Spirax Sarco Type DHF2 cylinder control is to control the water in an HWS indirect cylinder at a predetermined temperature. It can be fitted so that the valve is either in the primary flow or return but normally it will be most convenient to fit in the flow.

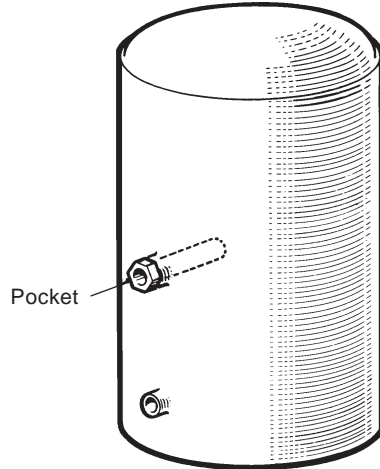
2. The unit is provided with a pocket which is screwed 1" BSP. This should be screwed into a tapping provided in the cylinder, making sure that the pocket is inserted fully into the water space.

3. Slide the thermostat which is coupled to the valve fully into the pocket. Couple up the pipework to the valve. To facilitate this, the valve may be turned in any direction but flow must be in the direction of the arrow on the valve body.

The thermostat is held in position by the pipework.

For ease of future maintenance, unions are provided so that the valve and thermostat unit can be easily withdrawn.

A clear space of 178 mm is required at 'X' for the removal of the thermostat.



### Operation

#### 4. Temperature

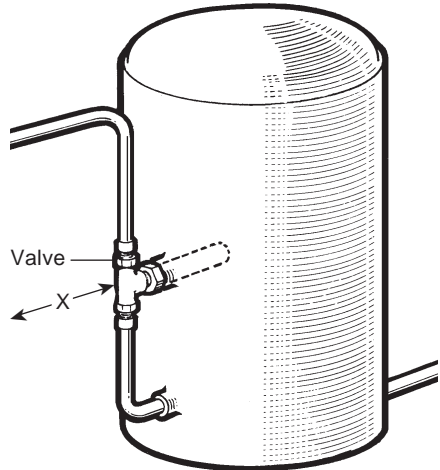
The Spirax Sarco Type DHF2 cylinder control is available with a choice of temperature settings, as follows:-

Range 'B' 60°C, supplied as standard

Range 'D' 43°C, available subject to special quotation.

The temperature setting of each thermostat is stamped as 'B' or 'D' on the end of the thermostat and is also stamped on the nameplate.

There is no adjustment but thermostat assemblies are interchangeable so that, for example, if on using a 'B' setting it is found that the water temperature is higher than that required, a thermostat with 'D' setting could be substituted.



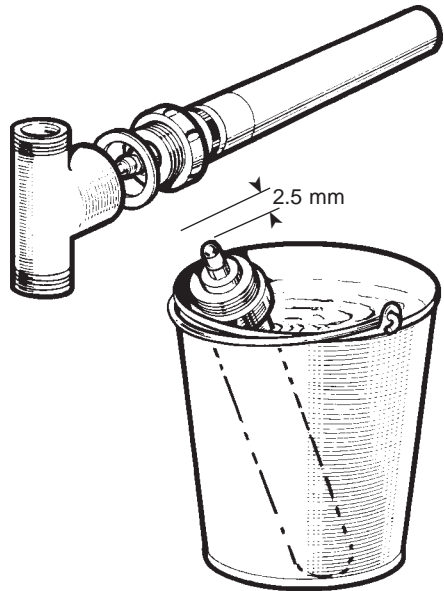
## Maintenance

### 5. Trouble tracing

If the unit fails to control, allowing the temperature of the water in the cylinder to rise substantially above the control point, this can be due to (i) dirt preventing the valve from closing, or (ii) failure of the thermostat.

Proceed as follows:-

- a) Isolate and drain down the system in the area around the valve.
- b) Disconnect the valve from the pipeline and withdraw complete with thermostat.
- c) Unscrew thermostat and valve head assembly from the valve body.
- d) To test the thermostat, submerge it in a container of clean water at a temperature slightly above the setting of the thermostat.
- e) If, after allowing sufficient time for the thermostat to become saturated with heat, the valve head extends by as much as 2.5 mm the thermostat is in good order.
- f) Thoroughly clean all dirt from the valve especially at the seating faces of the valve and seat. Reassemble.
- g) If, however, from this test the thermostat shows little or no change in the overall length, replace with a new one, at the same time making sure that the valve seat is clean.
- h) Always reassemble with a new body gasket.



### Spare parts

The spare parts available are shown in heavy outline. Parts drawn in broken line are not supplied as spares.

#### Available spare

Thermostat (state temperature range)	A
Body gasket (packet of 3)	B

#### How to order spares

Always order spares by using the description given in the column headed 'Available spare' and stating the size and type of cylinder control.

**Example:** 1 - Thermostat, temperature range 'B' for ½" Spirax Sarco type DHF2 cylinder control.

#### Note:

The DHF2 valve body has union connections and supersedes the DHF cylinder control in which the valve body had ends screwed BSP. In all other respects the spares are interchangeable between models DHF and DHF2.

