

## 12.0 Changing Components

### 12.21 Plate Heat Exchanger (Fig. 64)

1. Drain the primary circuit.
2. While supporting the heat exchanger undo the screws securing it to the brass manifolds.
3. Withdraw the heat exchanger upwards and to the left of the gas valve, taking care not to damage any wires or controls.

#### Seals

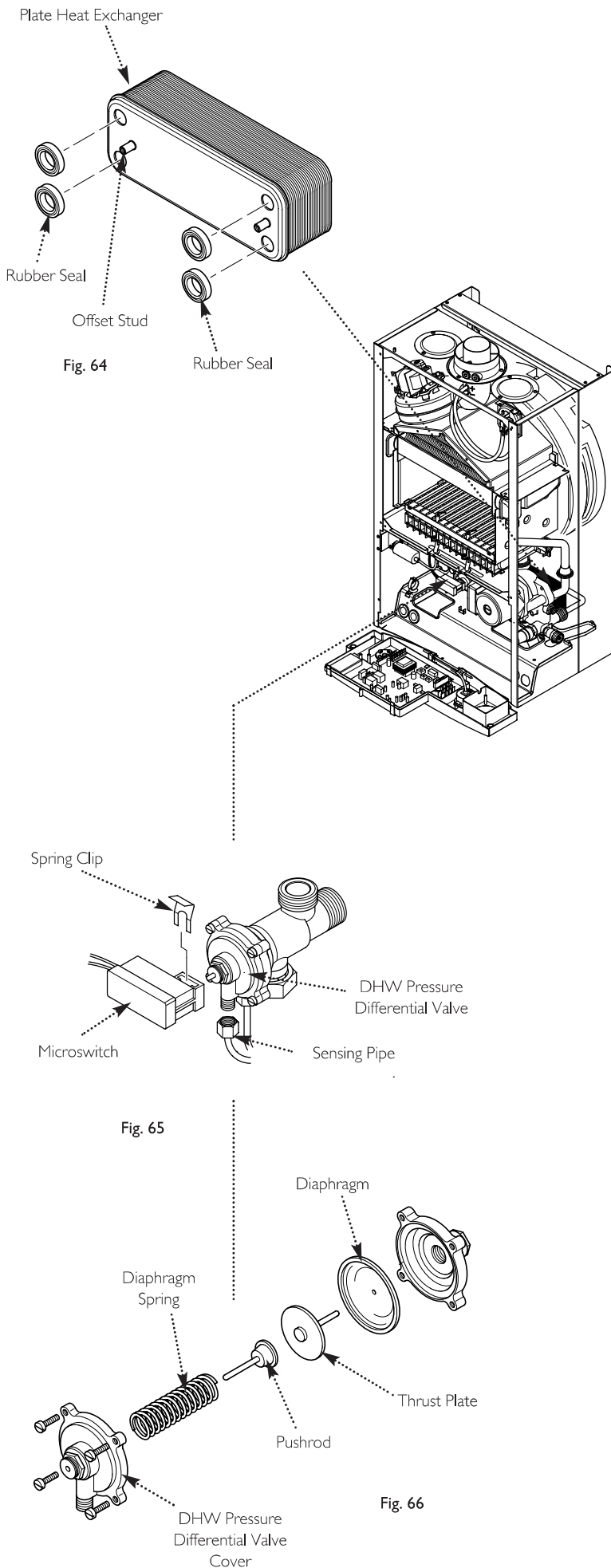
4. There are four rubber seals between the manifolds and heat exchanger which may require replacement.
5. Ease the seals out of the manifolds. Replace carefully, ensuring that the seal is inserted into the manifold parallel and pushed fully in.
6. When fitting the new heat exchanger note that the left hand location stud is offset towards the centre more than the right hand one.
7. Reassemble in reverse order.

### 12.22 Diverter Valve Assembly (Figs. 65 & 66)

The diverter valve assembly comprises of a central heating pressure differential valve and a domestic hot water pressure differential valve. These are connected to a manifold which is joined to the plate heat exchanger.

#### DHW Pressure Differential Valve Diaphragm (Figs. 65 & 66)

1. Turn off the mains water inlet tap and drain the domestic hot water by turning on a hot tap.
2. Prise off the spring clip retaining the microswitch. Pull the switch away.
3. Undo the sensing pipe nut from the valve and slacken the nut at the inlet manifold. Ease the pipe away from the valve.
4. Undo the screws securing the differential valve cover.
5. Carefully draw off the cover and remove the diaphragm, noting the orientation.
6. Fit the new diaphragm and reassemble in reverse order.



## 12.0 Changing Components

### 12.22 Diverter Valve Assembly (Cont)

#### CH Pressure Differential Valve Diaphragm (Fig. 67)

1. Isolate the boiler from the central heating flow and return pipes and drain the boiler primary circuit.
2. Prise off the spring clip retaining the microswitch. Pull the switch away.
3. Undo the screws securing the differential valve cover.
4. Carefully draw off the cover and remove the diaphragm.
5. Fit the new diaphragm and reassemble in reverse order.

#### Diverter Valve Operating Head (Fig. 67)

1. Pull the 3-pin plug off the operating head and prise off the spring clip retaining the head to the valve body.
2. Lift the operating head away from the valve body.
3. Fit the new head and reassemble in reverse order.

### 12.23 Flow Regulator (Figs. 68 & 69)

1. Undo the filter cartridge from the inlet/return manifold.
2. Unscrew the venturi and remove the flow regulator.
3. Check the cleanliness of the filter gauze, rinsing thoroughly in clean water as necessary. Fit the new flow regulator and reassemble in reverse order.

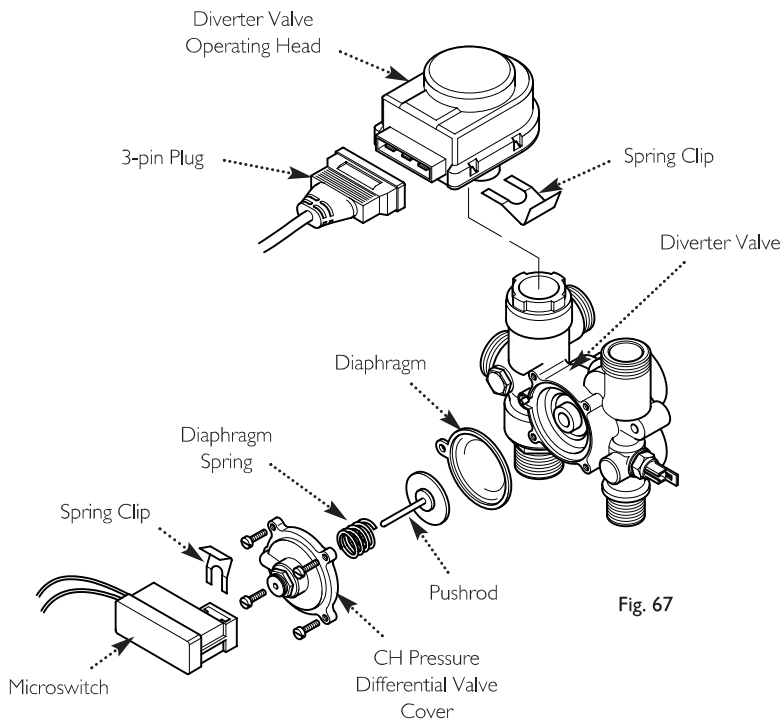


Fig. 67

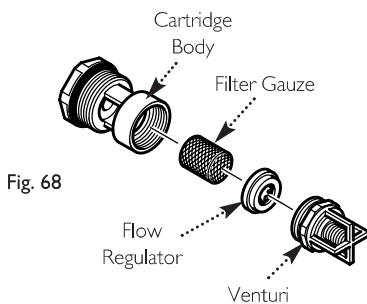
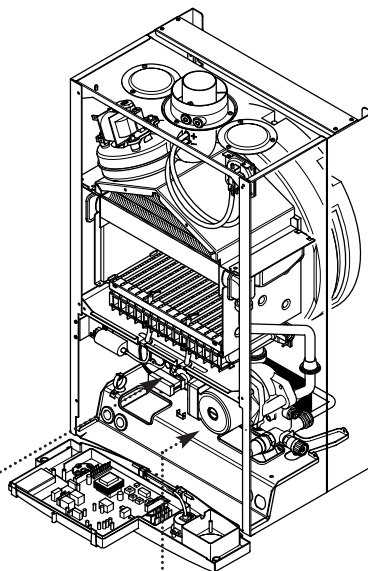


Fig. 68

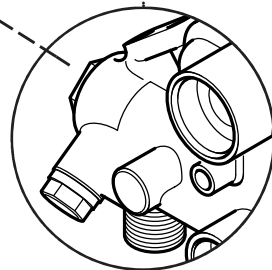


Fig. 69

Inlet/Return Manifold