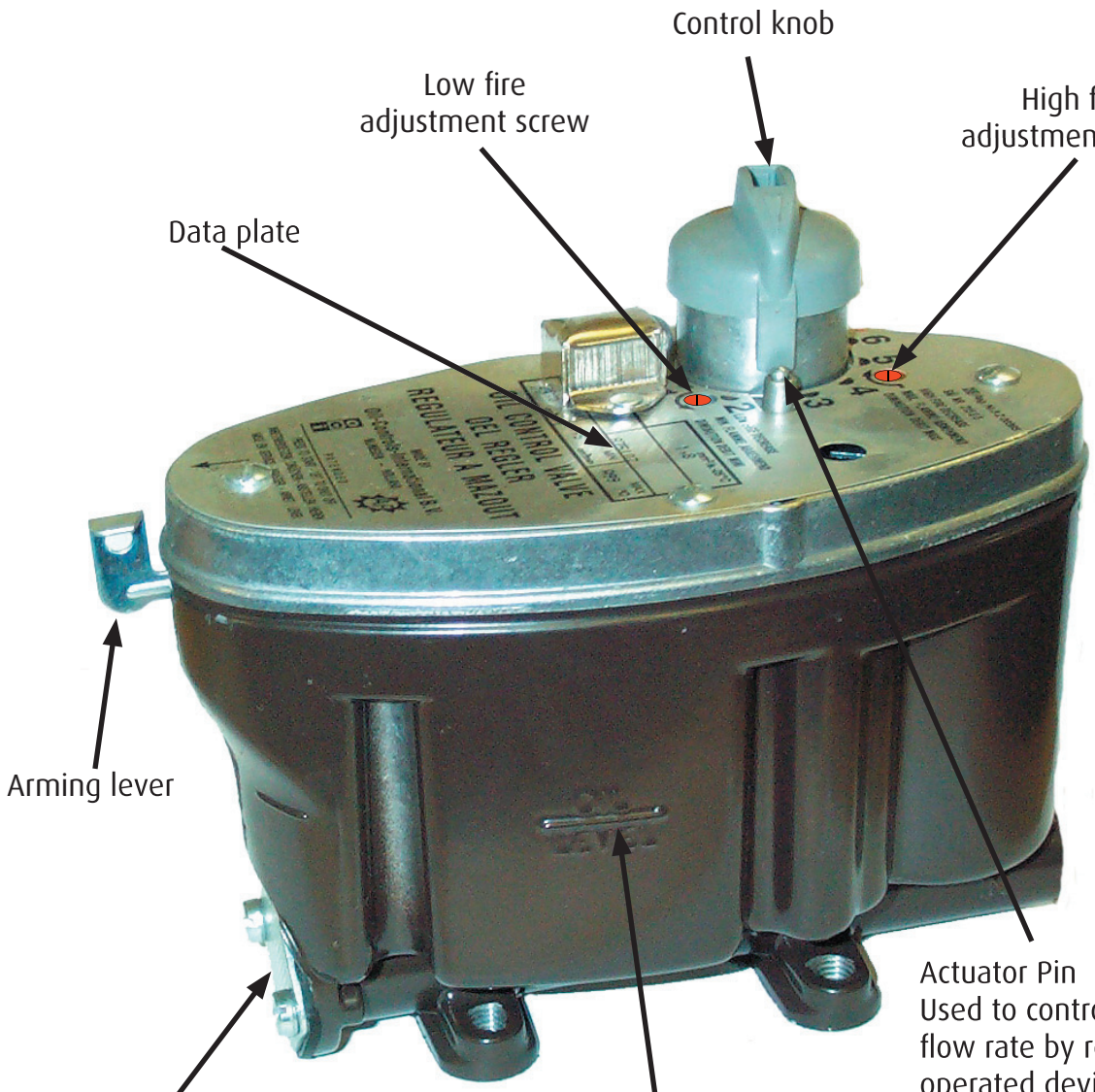
Technical Specification Bulletin Number TB137

Fuel Type	Date of Issue	Edition
Oil	Jan 2005	1

The Stove Company

CI Oil Valve Adjustment

The oil control serves to regulate the capacity of the stove with liquid fuel oil. Apart from the task of having to supply oil to the burner with the controlled, pre-selected quantity of fuel per unit of time, the oil control also protects the burner against flooding and is therefore a safety device.



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CI Oil Valve Adjustment

The fuel enters via the filter and the float valve into the oil control itself. The rising oil level in the oil control lifts the float and, as soon as the oil has reached the level mark, the float valve is closed to allow only as much oil to flow into the control as flows out of it to the burner.

Adjustment of High and Low Fire Settings

When the stove is first put into operation, an adjustment of the oil control to the existing conditions, sometimes proves necessary. Such adjustments are necessary if the minimum flue draught required is not available or if the fuel oil used is not of the viscosity (cSt/25°C) specified on the name plate of the oil control valve. Adjustment of the flow is only to be done when the heating device is in operation.
After the flow has been corrected, 5 minutes must be allowed to elapse before the flame corresponds to the newly adjusted flow. As a general rule, a quarter-turn of the flow adjustment screw suffices to make the necessary correction. Alongside the flow adjustment screws are arrows indicating which direction the screw must be turned to increase or decrease the flow.
The low fire screw has an arrow indicating low fire decrease as anticlockwise. This must only be adjusted when the oil control valve is set at its minimum setting.

The high flame must first be adjusted with the stove running at maximum capacity. The high fire screw has an arrow indicating high fire decrease as a clockwise turn of the screw.

Once the high fire has been adjusted the valve should be again turned to minimum setting and the low fire setting re checked.

If the Valve has Flooded

Should the feed valve become leaky as a result of accumulated dirt, the oil level in the control rises further, the over fill float rises releasing the arming lever and stopping any further oil entering the control valve.

The appliance must be allowed to go cold before any work on the oil control valve or resetting of the arming lever are attempted after the over fill float has been activated.

To re arm the valve the excess oil must be removed from the over fill chamber. This can be done by first turning the oil control valve to the maximum setting and then pushing down the arming lever and holding it down for 30 seconds. The burner pot will need the excess oil removing before the burner is re lit.

CI Oil Valve Adjustment

Normal Annual Servicing

Like all mechanical devices, it is necessary to clean the oil controls at certain intervals, as a rule every 1-2 years. If particularly dirty fuel oil is used, or there is no fuel filter in the fuel line from the oil tank, additional cleaning may prove necessary.

The following sequence should be carried out during the annual overhaul:

1. Tap the actuator pin, with the control knob set at the highest position. In this way, any slight accumulation of dirt in the metering stem slit will be removed.

2. Remove and clean the filter, and refit it.

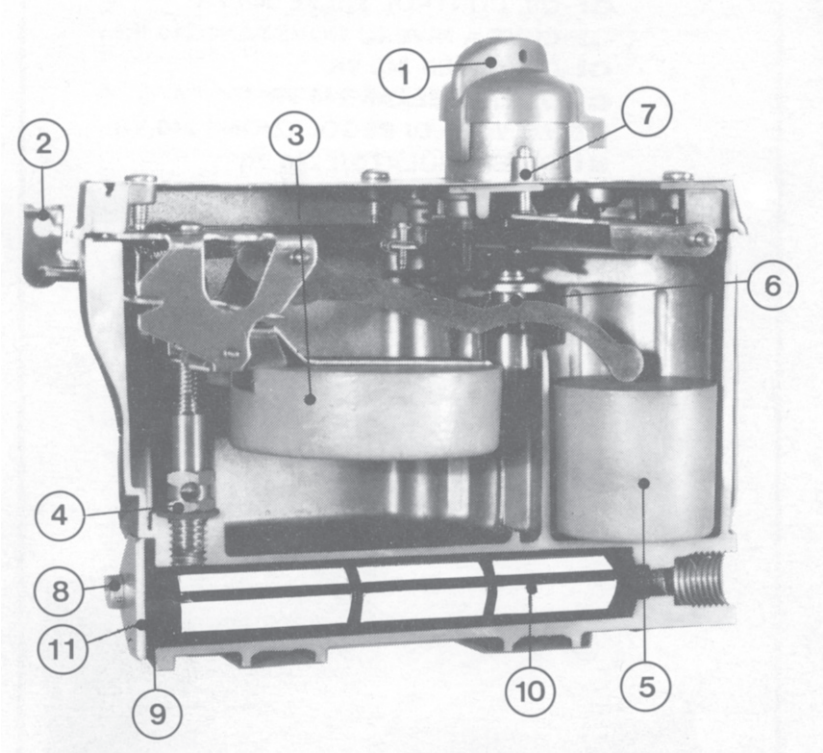
3. Remove the top plate, held in place by 4 screws and inspect inside the valve.

A) If water should be found inside the oil control, it is advisable to remove the oil control valve for further inspection. If corrosion is found within the valve it should be replaced as irreparable damage may have occurred. If water has entered the valve, but there is no corrosion evident, all traces of moisture must be removed, as it will cause corrosion of the die cast metal within the valve. The valve should then be refitted ensuring the correct valve height is maintained and the stove re commissioned.

B) If dirt should be found inside the oil valve, it is advisable to remove the oil control valve for further inspection and cleaning. Remove all the dirt from the valve and wash it and all the component parts in clean oil. The valve should then be refitted ensuring the correct valve height is maintained and the stove re commissioned.

CI Oil Valve Adjustment

Component parts of the CI Valve



1) Control knob
2) Reset or arming lever
3) Main float
4) Inlet valve
5) Safety or over fill float
6) Metering stem
7) Actuating pin for flexitemp or aquastat
8) Filter cover plate screw
9) Filter cover plate gasket
10) Filter
11) Filter cover plate