Sentinel Dosing Vessel

An Easy Way to Dose Additives to a Central Heating System

Introduction

The Sentinel Dosing Vessel is specially designed for dosing the Sentinel range of heating system cleaners and inhibitors directly into the central heating circuit. They can be dosed either by injecting through boiler's filling loop, or any other convenient point such as a radiator air vent. The dosing rate is fully controllable by adjusting the ball valve and pressure is maintained during dosing by a few pump strokes at infrequent intervals.

- Compact and Robust
- Fully adjustable output
- Corrosion resistant construction
- Integral pumping system
- Tapered nozzles supplied will fit most radiator air vents
- Supplied complete with boiler fill loop adapter.

Equipment

A high-density polyethylene blow moulded UVL stabilised bottle with excellent chemical resistance and fitted with a filler funnel neck. The integral pump and handle is fitted with viton seals. The handle may be locked down for carrying.

Capacity is 5 litres (nominal), 3.8 litres working volume. Delivery of the chemical is through 1m long braided PVC tubing and a nickel-plated brass ball valve with PTFE seals and T-handle. The unit is supplied with nozzles and adapters to fit most radiator air vents (including those of the rear-facing type, where the radiator is not too closely fitted to the wall). A $^1/_2$" BSP fitting facilitates dosing via a combination boiler's filling loop.

Instructions for use

1. Ensure that pump and boiler are off by isolating the power.

2. In the case of an open system, dosing can be effected via a radiator or any dedicated dosing point in the pipe work. For a sealed system, the filling loop serves as an additional convenient dosing point.

3. To inject the additive into a radiator, first requires the radiator to be isolated. Drain sufficient water from the radiator to enable the bleed pin (or the whole fitting) to be removed without spilling water. It should be noted that the bottle should not be pressurised at this time.

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4. To inject the additive via a filling loop may require the draining of some water from the system, as in a sealed system water cannot be displaced to make room for the additive. The maximum operating pressure of the bottle is 18 psig (1.23 bar).

5. Fit the appropriate dosing adapter to the radiator [or filling loop] and connect the bottle hose to the adapter.

6. Remove the bottle plunger assembly from the bottle by twisting the plunger anticlockwise. Empty the additive into the bottle, observing all handling precautions.

7. Reassemble the bottle and pressurise by operating the plunger no more than 30 depressions.

8. Open the radiator valves [or filling loop valve].

9. Release the additive into the system by opening the fluid flow valve on the flexible hose. Observe the fluid level falling in the bottle. If necessary, the plunger should be operated to empty the bottle completely. In the case of a radiator, a small volume of air should be allowed to enter the system - this will ensure that when the adapter is removed, no water will spill out.

10. Close the fluid flow valve.

11. Close the radiator valves [or filling loop valve], and release any remaining pressure in the bottle.

12. Open the fluid flow valve. In the case of a radiator, this will release any air back into the bottle. If the operation has been carried out properly, no water will be displaced into the hose and bottle.

13. Loosen the hose connector and remove the adapter. If applicable, refit the radiator plug, open the radiator valves and vent the radiator.

14. Switch the power back on and recommission the system.

15. After leaving the premises, release any air pressure in the bottle to the atmosphere, and store any unused additive.

Do not use the bottle to transport additive.

Maintenance

At the earliest opportunity, before storage, add some warm - **not hot** - water to the vessel and pass through the tubing and valve to flush out any residue. Repeat with clean cold water.

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