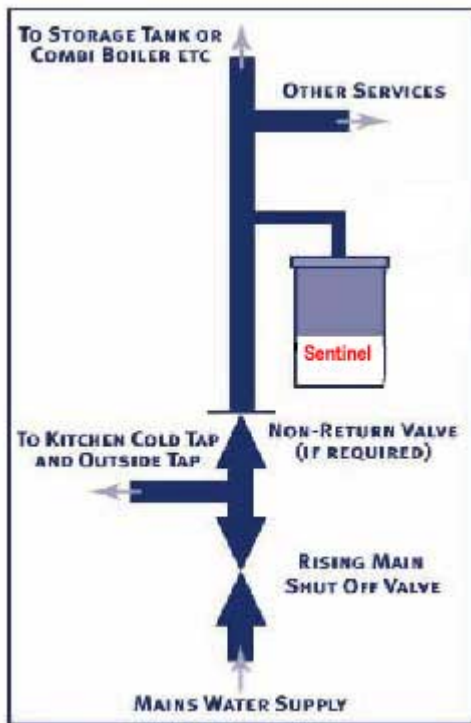


Sentinel Combiguard Scale Inhibitor

Scale Prevention for Domestic Mains Water

Introduction

The Sentinel Combiguard Scale Inhibitor is designed to reduce the scale build up caused by hard water. It works by proportionally blending a minute amount of Sentinel Polyphosphate into the water.



The Sentinel Combiguard maintains the hardness salts in solution thus preventing them from forming scale. Storage tanks, cylinders, etc. can be confidently treated. There are two sizes of cartridge – 15 mm and 22 mm. Sentinel Combiguard can also be used in soft water as a corrosion inhibitor.

Important

To ensure safe, on-going scale protection, the cartridge must be replaced yearly or sooner if the annual usage of water exceeds 120,000 litres.

Sentinel Combiguard is a food grade product.

Location

Note: Installation of the Sentinel Combiguard Scale Inhibitor should comply with Local Water Undertaker “Water Supply (Water Fittings) Regulations” or “Water Byelaws”. In some areas a non-return valve may be required. The kitchen cold water tap and the outside tap should be left untreated.

The Sentinel Combiguard Scale Inhibitor can be simply installed into any angle copper pipe. There must be a minimum of 450 mm of pipe between the outlet of the Sentinel Combiguard and the inlet of a boiler/heat source. The cartridge must always be in the vertical position. Adapters are available to join to other types of tubing. If in doubt consult your supplier. The water flow must be in the direction of the arrow embossed on the body of the tee piece.

A wall bracket plate is built in and should be used where pipe work will not adequately support the unit.

Further Technical Installation sheets are available on request.

Operating Parameters

- Maximum Working Pressure 10 Bar
- Maximum Inlet Water Temperature 30°C
- Maximum Ambient Temperature 40°C
- Maximum Flow Rates (15mm unit) 30 ltrs/min
- Maximum Flow Rates (22mm unit) 54 ltrs/min
- Av. Litres treated /cartridge 120,000
- Maximum treated water temp 95°C

Procedure

Choose the location of the unit, turn off the water and drain down. Cut out the section of pipe ensuring that swarf or debris does not enter the system.

Insert the tee piece and tighten the compression nuts. Ensure that the two "O" Rings (see diagram on panel) are in position. Tighten the locking nut ensuring that the cartridge remains in the vertical position.

If the pipework will not support the unit, screw the supplied back plate to a supporting surface.

Important

New system installations are particularly prone to fouling with foreign matter. It is essential that any foreign matter such as swarf, wire wool, flux or debris is flushed clear of the system prior to connecting the control head and cartridge. A 20 mm BSP brass cap (available at good hardware and plumbing retailers) can be tightened onto the 20 mm centre thread of the tee piece, to assist in flushing the system. After flushing, reconnect the control head and cartridge. Ensure that the cartridge is fully held in the bayonet holder and that the cartridge-locking pin is screwed down.

Turn on the water and test for any leaks. Set the cartridge change indicator ring to the appropriate month.

Check for Safe Installation and Operation

1. Read this information carefully and follow all the instructions. Personal injury or property damage could result if you fail to install or operate the Sentinel Combiguard properly.
2. Check all local plumbing codes and comply with their rules.
3. Protect the Sentinel Combiguard from freezing temperatures. Water freezing in the unit will damage or break it.
4. Install the Sentinel Combiguard on a cold water pipe only.
5. Be sure all packaging is removed from the cartridge
6. Check inlet and outlet are correctly piped in the direction of arrows.
7. Dial the month change indicator and complete the cartridge reminder form.

