

# Bimetallic Steam Trap SM24H

### Typical Applications

High pressure steam main drips, non-critical high pressure process equipment, outdoor installations subject to freezing. Bimetallic traps should be used when sub-cooling of the condensate is either permissible or desirable.

### Limiting Conditions

**PMA**—Maximum Operating Pressure: 350 psig, 24 bar

**TMO**—Maximum Operating Temperature: 662°F, 350°C at all operating pressures

### Pressure Shell Design Conditions

**PMA**— Maximum Allowable Pressure:  
580 psig/0-248°F 40 barg/0-120°C  
472 psig/464°F 33 barg/240°C  
304 psig/752°F 21 barg/400°C

**TMA**— Maximum Allowable Temperature:  
752°F/0-304 psig 400°C/0-21 barg

### Installation

The trap is designed for installation with the element in a horizontal plane and the cap at the top preferably with a drop leg immediately preceding the trap. When welding the trap into the line, there is no need to remove the element providing that welding is done by the electric arc method.

Full port isolating valves should be installed upstream and downstream of the trap.

### Maintenance

This product can be maintained without disturbing the piping connections. Complete isolation of the trap from both supply and return line is required before any servicing is performed.

The trap should be disassembled periodically for cleaning of the strainer screen and inspection and cleaning of the valve head and seat. The element is not field adjustable.

Worn or damaged parts should be replaced using a complete element set.

### How to Fit Element Set

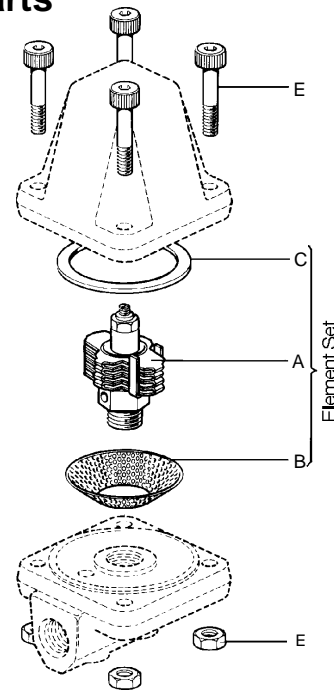
Ensure that the trap is isolated from both supply and return pressure before servicing.

Unscrew the M10 cover bolts and nuts using an 8mm allen key and a 17mm wrench. Remove the cover from the body. Using a 22mm wrench, unscrew the element set and replace with new one. Coat the thread seat with Loctite silicon sealant before tightening. Replace the trap cover using a new cover gasket and make sure that the strainer screen is correctly located.

Ensure that the cover bolts are tightened evenly. The recommended torque for tightening the element seat is 90 ft•lb and the recommended torque for the cover bolts and nuts is 15/18 ft•lb.

**Warning:** Do not dismantle the element by removing the locking nut or the setting of the trap will be lost.

### Spare Parts



Element Set	A,B,C
Cover Gasket (pkt of 3 each)	C
Set of Cover Bolts & Nuts (4 off)	E

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