

# spirax/sarco®

## No. 8 Liquid Expansion Steam Trap

The No. 8 Fixed Temperature Liquid Expansion Thermostatic Steam Trap has an oil-filled element set to operate at a fixed temperature. It is easily adjusted to discharge condensate at any temperature between 140° and 212°F (60° and 100°C).

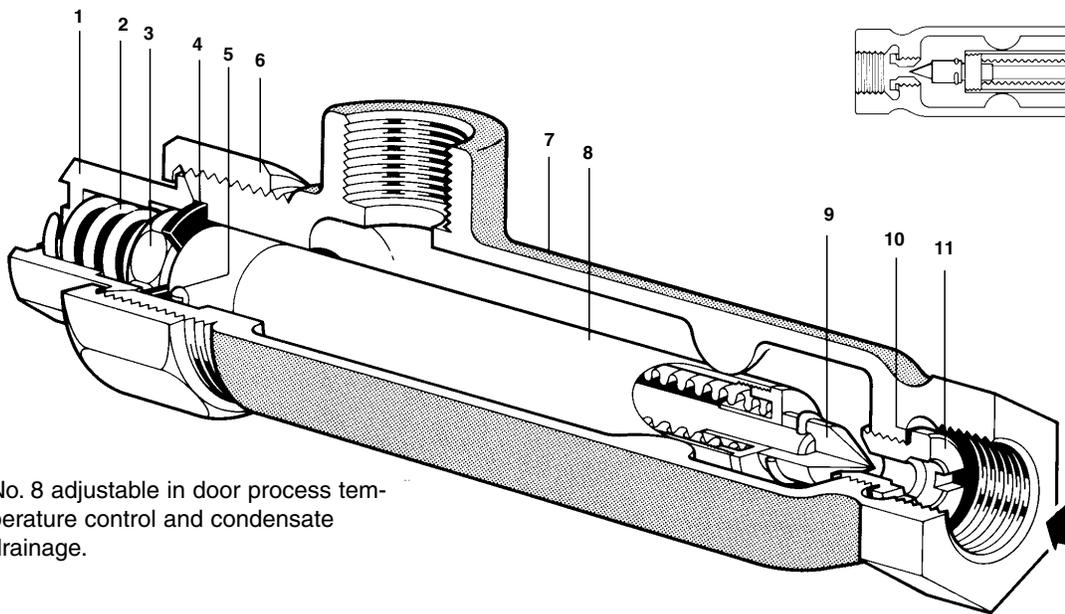
<b>Model</b> ⇄	<b>No. 8</b>
<b>PMO</b>	250 psig
<b>Sizes</b>	1/2"
<b>Connections</b>	NPT
<b>Construction</b>	Bronze Body Brass & Stainless Steel Internals
<b>Options</b>	BSP connections

### Typical Applications

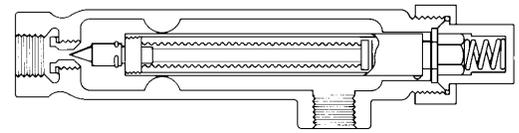
Simple temperature control applications.

**Note: Suitable fail safe precautions must be taken.**

Steam trapping applications where it is desirable to subcool the condensate below 212°F.



No. 8 adjustable in door process temperature control and condensate drainage.



No. 8 set at 140° - 212°F when used outside or in freezing conditions.

### Construction Materials

No.	Part	Material	
1	Adjustment Nut	Brass	BS 2872 CZ 122
2	Overload Spring	Stainless Steel	AISI 302
3	Element Nut	Brass	BS 2872 CZ 122
4	Washer	Brass	BS 2870 CZ 108
5	Adjustment Locknut	Brass	BS 2872 CZ 122
6	Guide Screw	Brass	BS 2872 CZ 108
7	Body	Gunmetal Bronze	Type B62
8	Element	Brass	
9	Valve	Stainless Steel	AISI 431
10	Valve Seat Gasket	Copper	BS 2870 CZ 101
11	Valve Seat	Stainless Steel	AISI431

### Limiting Operating Conditions

**Max. Operating Pressure (PMO)** 250 psig (17 barg)

**Max. Operating Temperature** 450°F (232°C)

### Pressure Shell Design Conditions

**PMA** 362 psig/up to 248°F 25 barg/up to 120°C  
 Max. allowable pressure 282 psig/416°F 19 barg/213°C  
 152 psig/0-500°F 10.5 barg/0-260°C

**TMA** 500°F/0-152 psig 260°C/0-10.5 barg  
 Max. allowable temperature

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

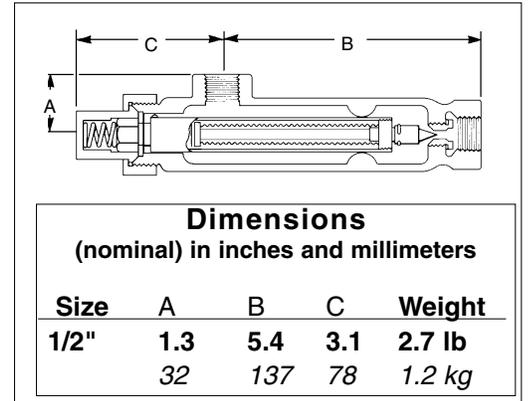
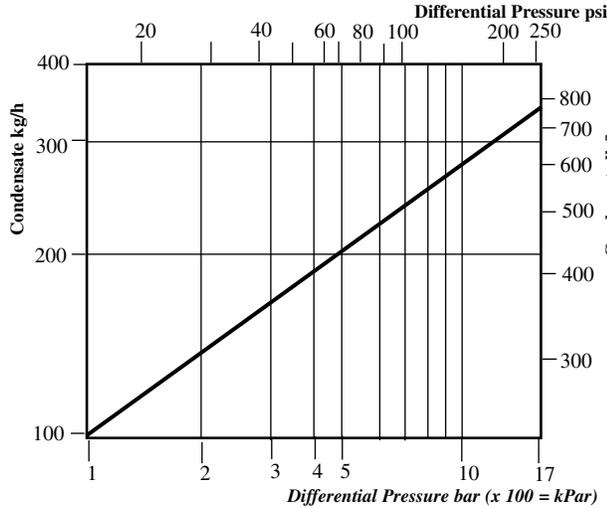
In the interests of development and improvement of the product, we reserve the right to change the specification.

TI-2-200-US 07.02

# No. 8 Liquid Expansion Steam Trap

## Capacities

Capacity shown is based on a trap with the adjustment 3 turns open and handling condensate at 176°F 80°C.



## Installation

The No. 8 functions both as steam trap and simple temperature regulator. Where over temperature due to element failure could cause risk to people or process, a failsafe backup safety control should be fitted. A 'Y' strainer should be installed upstream of the trap. For fixed temperature discharge, the No. 8 trap should be installed with the inlet below the equipment being drained. The outlet should always be above the trap. On indoor process applications outside freezing application outlet should be rotated down for full drainage. Full-port isolating valves should be installed upstream and downstream of the trap.

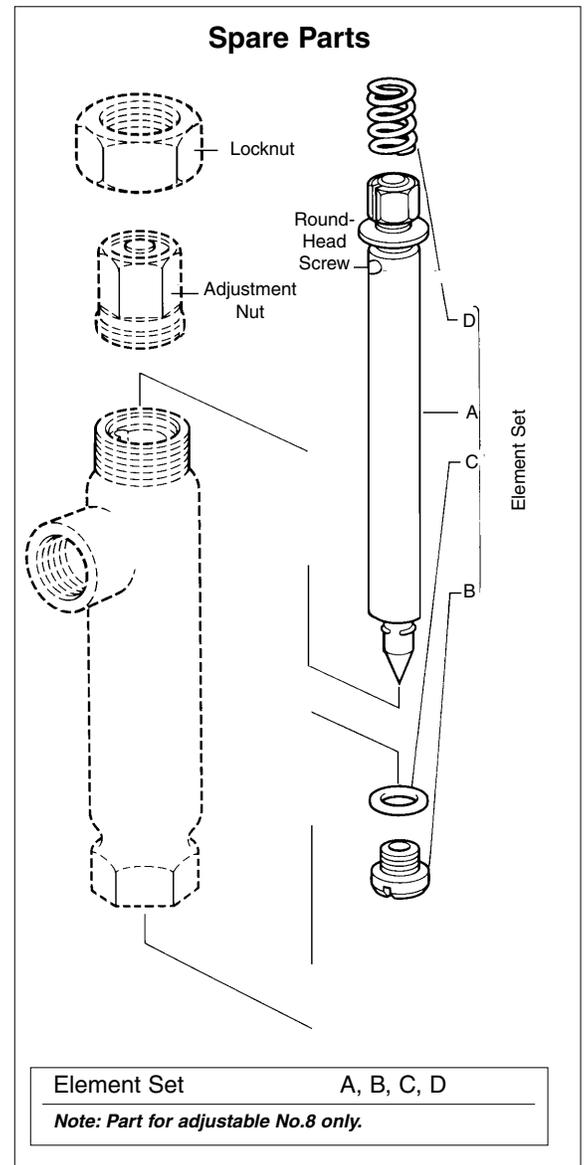
## Sample Specification

Steam traps shall be of the liquid expansion type, having bronze bodies with screwed connections and stainless steel trim. Condensate discharge temperature shall be adjustable within the range specified while traps are in service.

## Maintenance

The No. 8 trap 140°-212°F range is repairable. 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 inspection and cleaning of the valve head and seat. Worn or damaged parts should be replaced using a complete element set (range 140° - 212°F only).

If the thermostat becomes inoperative, the cimplet No. 8 must be replaced. **Complete installation and maintenance instructions are given in the IMI sheet, which accompanies the product.**



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