

Elmac Technologies Limited - Operating Instructions

REQUIREMENTS TO BS EN 12874, ATEX DIRECTIVE 94/9/EC & PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC

INSTALLATION & MAINTENANCE INSTRUCTIONS

EC Type Examination Certificate No.	Sira 03ATEX9513X
Suitable for use with gas groups	IIA, IIB1, IIB2 and IIB3 only
Limiting Temperature	-20 / + 60 deg C
<i>Note: Safety Vents are not resistant to endurance burning</i>	

“Safety Vent” arresters are fitted with nameplates giving the following information:-
Also refer to figures ‘1’ - Nameplate general layouts.

- Full name, address, telephone and fax numbers of manufacturer.
- Model number of Safety Vent.
- Serial number of Safety Vent. This is traceable to the year of construction and must be quoted when requesting spare parts.
- CE marking and the specific marking of explosion protection.
- Notified Body Identification Number 0518.




Figure 1 - Safety Vent Nameplate

Caution: Always ensure that the system is at atmospheric pressure and there is no ignitable vapour present that could flash when either installing or maintaining a unit.

Installation

1. It is essential that Elmac end-of-line deflagration Safety Vents are only used in the application and with the gas group for which they were supplied (as stated within our written quotation). Materials of construction must be compatible with the gas mix and the environment in which the unit is to operate. This is particularly important if the Safety Vent is to be used in corrosive applications. Contact the Elmac technical sales department for advice.
2. Elmac Safety Vents are not suitable for situations where continuous burning of a flame could stabilise on or near to the surface of the element. Under these circumstances it is strongly recommended that a temperature sensor is installed combined with a shutdown system to turn off the gas flow.
3. Always ensure that the screw thread available on the pipe work is compatible with that on the safety vent.

1	First Issue (new document number with latest Elmac logo's & contact details incorporated).	D.Greenough	17.06.09
Rev.	Description	Issued By	Date

Description: Installation & Maintenance Instructions for Light Duty End-Of-Line Safety Vent Deflagration Flame Arresters (ATEX)		 Elmac Technologies® Innovative Safety Solutions Elmac Technologies Limited, Greenfield, Holywell, Flintshire, United Kingdom CH8 9DP	
Drawn By: D.Greenough	Date: 17.06.09	Document Number ETL-00182 Page 1 of 2	
Checked By:	Date:		
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		Revision 1	

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Maintenance

1. **Maintenance and inspection is the responsibility of the customer and not of Elmac Technologies Limited.**
2. Safety Vents should be inspected on a regular basis to ensure that no build up of solids or liquids occurs in the element as this will adversely affect the performance of the unit during process flow conditions. The maintenance interval must be determined by the user and is governed by the amount and type of particulates in the system in which the unit is installed. The user should check the element in the first few months of operation to find out how quickly particulates accumulate. After cleaning, the element should be thoroughly inspected for damage and if damaged it must be replaced. Safety Vents should also be inspected if a flashback is known or suspected to have occurred.
3. Depending upon the particular installation, it may be possible to inspect the element with the Safety Vent in situ. However, if this is not possible, then the Safety Vent will need to be removed from the pipe work for inspection.
4. Safety Vent elements may be cleaned with any suitable solvent followed by a blow through with compressed air. Steam cleaning may also be effective. If the Safety Vent element cannot be cleaned satisfactorily, the Safety Vent must be replaced. Elmac Safety Vents can withstand numerous flashbacks without damage but if any distortion is observed in the element, then the Safety Vent should be replaced. It is advisable to hold spare Safety Vents in stock, on-site.

IN THE EVENT OF ANY QUERY PLEASE CONTACT OUR TECHNICAL SALES DEPARTMENT

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