



ANDERSON GREENWOOD AMAL FLAME ARRESTERS

OPERATING AND SAFETY INSTRUCTIONS (PED)

Before installation these instructions must be read fully and understood

Read all warning labels fitted to the valve before operation or maintenance

PLEASE NOTE

If in doubt about any aspect of installation, maintenance or service conditions, please contact Emerson or its authorized representative.

GENERAL

The intent of these instructions is to acquaint the user with the storage, installation and operation of this product.

Please read these instructions carefully before installation.

Each flame arrester is specified for a particular set of process conditions, as detailed by the user, and has a unique serial number hard-stamped on the nameplate. The serial number refers to the particular process conditions for which the flame arrester has been specified. It is essential that the flame arrester only be used for that application. Please contact Emerson or its authorized representative, for advice before making any changes to the process conditions.

INSTALLATION

- Before installing the flame arrester in the line, and to ensure a perfect seal, please ensure that the flange gasket faces of both the line flanges and of the flame arrester are cleaned, to remove any dirt or foreign matter. If the connections are threaded, similarly clean the threads to remove dirt or foreign matter. Because foreign materials entering the flame arrester may cause damage, or block the cells of the element matrix, it is essential to ensure that the line is cleaned of any such materials. New process lines are especially prone to containing foreign objects and materials that get trapped inadvertently during construction and thus it is essential that particular attention is paid to new systems. Elements are bi-directional, unless stated otherwise. The bi-directional capability of the flame arrester is dictated only by accessories such as sensors.

NOTE

Any damage or blockage to the element matrix may impair the function of the flame arrester, with potentially dangerous results.

- Always check the flame arrester before installing, to ensure that no foreign materials have entered the equipment inadvertently during unpacking.
- When installing the flame arrester in the line, always use new gaskets of the type and size appropriate to the equipment connections, line flanges and the particular process.
- For flanged flame arresters, tighten down the stud-bolts evenly and in a proper sequence, to avoid possible distortion to the flanges.

SAFETY PRECAUTIONS

If a flame arrester is supplied with branch connections, always ensure that the equipment (pressure detectors, temperature sensors etc.) to be used in the connections is installed before operating the process. Alternatively, should the equipment not be available, or needed, ensure that the blind flanges or threaded plugs supplied with the flame arrester remain in place securely. Similarly, if drain connections are fitted, please ensure that these are piped to a safe location or are left blanked-off securely with the blind flanges or plugs, as supplied.

WARNING

Amal flame arresters are a safety-related product intended for use in critical applications. Improper installation, application or maintenance of this product, or use of incorrect gaskets, or spare parts not supplied by Emerson, may result in failure of the flame arrester to perform its function.

Please refer to the Installation, Operating and Maintenance Instructions supplied by Emerson for more detailed information.

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STORAGE AND HANDLING

If the flame arrester is to be stored, it is recommended that it be kept indoors, in the original shipping container, away from dirt or other forms of contamination.

When unpacking, never lift the entire flame arrester by use of the lifting handle, or eye, fitted to the element body, nor by any branch connections that may be fitted. It is recommended that slings be used, around the neck of the connecting flanges, to facilitate lifting from the container and into position for installation in the line. Lifting lugs may be fitted to the flame arrester body by special order requirement only. When these are fitted, please ensure that the hooks to be used are suitable for the diameter of the eye in the lifting lug and are positioned safely, before commencing the lift.

PIPING

Connect the flame arrester to the process line within the specified maximum distance from a possible source of ignition (refer to the product data sheet for this information).

Flame arresters must never be installed in a line with a smaller inside diameter to that of the connecting flanges of the flame arrester.

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