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Elmac Technologies Launches New Hydrogen In-Line Flame Arrester

Elmac Technologies, the international leaders in flame arresters and tank and vessel protection equipment, announce the expansion of their current in-line deflagration flame arrester range with a new DFC Series suitable for use with hydrogen and other IIC gas group mixtures.



“With the current growth in hydrogen production and storage for new fuel system technologies, it is extremely important that safety equipment is available to support this industrial development,” comments Elmac Technologies Managing Director, Martyn Cooling.

“Last year,” he added, “we successfully released our AVC Series of end-of-line arresters for hydrogen use, and we are delighted to have quickly followed this with an in-line arrester range.”

By carefully focusing its research and development efforts, utilising its own state of the art test facility, and listening to the requirements of its diverse customer base, Elmac has succeeded in rapidly creating and launching a range of arresters which it anticipates will satisfy most customer needs.

As with all Elmac flame arrester products, the DFC Series complies with the requirements of ATEX and the pressure equipment directive (PED). “Here at Elmac we are committed to developing products which comply with the latest international standards,” continues Dr Cooling, “and the new DFC arrester range is certified to ISO16852:2008.”

About Elmac Technologies

In 2008, Elmac Technologies celebrated sixty years of expertise in the design and development of flame arresters for use in the worldwide gas processing and distribution industry, and can proudly claim to be the technical leader in flame and explosion safety systems.

Originally known as Elmac Engineering, the company developed its first flame arrester in 1948, for use with town gas, and rapidly established a global reputation for the design, manufacture and supply of products to enhance process safety in a broad range of industrial sectors. These sectors include the global oil, gas and petrochemical

industries; bio-fuels, mining, pharmaceuticals and power generation; agro-chemicals and fertilisers; distillers, food, flavours and fragrance companies; waste treatment organisations and special equipment manufacturers (OEMs).

Acquired by KnitMesh in 2001, and re-branded 'Elmac Technologies' in 2007 to reflect better the high levels of innovation and enhanced protection offered by its products, Elmac Technologies has grown to become one of the premier brands in the global market for flame arresters.

Elmac can assist clients by specifying appropriate products for proposed new installations and plant retrofits. In addition, Elmac are able to provide advice on the positioning of these products in an installation and to evaluate the suitability of flame arresters already fitted. To support clients in meeting the 2006 EU ATEX Directive for flame arrester compliance, the company is also willing to undertake site visits to discuss existing installations and to provide technical presentations to enhance awareness amongst the engineering community.

With state-of-the-art commercial, manufacturing and test facilities in the UK and additional manufacturing centres in South Africa and the People's Republic of China, Elmac Technologies is rapidly developing a comprehensive range of enhanced in-line and end-of-line deflagration arresters and in-line unstable detonation arresters. These devices are suitable for use in gas groups IIA, IIB3 and IIC having been rigorously tested in accordance with relevant international standards. The high-tech testing facilities can also be used to conduct experiments to demonstrate that proposed technical solutions meet client-specific requirements.

Elmac is also able to draw on the benefits of Computational Fluid Dynamics (CFD) to model the behaviour of a system in order to investigate the flow behaviour, including the study of flow patterns and the prediction of pressure drop. This information can be used to optimise designs for particular applications whilst avoiding the need for costly plant trials.

As part of an international group that also includes global knitted mesh specialists, KnitMesh Technologies, Elmac enjoys the financial stability necessary to continually innovate, research and develop the flame arrester solutions that will help bring greater safety to industry worldwide.

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