



VALVITALIA LAUNCHES THE HIGHLY EFFICIENT “WATER MIST” (MADE IN ITALY) FIRE-FIGHTING SYSTEM

**THE NEW PLANT IS ABLE TO REDUCE WATER USE BY 60
PER CENT AND ENERGY CONSUMPTION BY 40 PER CENT**

Based on the principle of “flame implosion”, the innovative technology optimises fire detection and accelerates extinguishing, resulting in significant savings on the resources required.

The solution, supported by a 2-million-euro investment, is part of the continuous development of the Fire Fighting sector, which is growing by 12.6% in Italy and enjoys solid growth prospects globally

*Rivanazzano Terme (PV), 18 July 2024 – Extinguishing fires with even greater speed and precision than current solutions on the market, through a sustainable design that protects a vital resource like water and ensures both energy and cost savings. These are the main developments to the fire-fighting sector offered by the new generation of systems based on “Water Mist” technology, designed and assembled by **Valvitalia**.*

The Italian multinational company with headquarters in the province of Pavia, as well as being specialised in the design, production and distribution of valves, actuators, fittings and gas systems for the energy industry, is one of the leaders in fire protection solutions. Its systems find application in the naval, railway and infrastructure sectors through the historic Eusebi and Silvani brands (based in Ancona), which have formed the Group's *Fire Fighting* division since 2014.

In particular, Valvitalia handled the design of the systems, the purchase of components, and their assembly, relying on a supply chain made up largely of Italian companies. The Valvitalia Group has invested 1.5 million euro in engineering and, in 2024 alone, around 500,000 euro in the development of the new technology, with the aim of increasing the investment in the coming years. Through the “Water Mist” solutions, Valvitalia aims to further enhance the quality of the division's results, which ended 2023 with a turnover of around 30 million euro.

*“Thanks to continuous investments in research and development, Valvitalia’s know-how continues to experience a phase of progress”, comments **Salvatore Ruggeri, President and founder of Valvitalia**. The solutions we have brought to bear provide tangible support for the safety of workplaces and public infrastructures, making an effective contribution to saving people’s lives.*

“Water Mist” systems present interesting growth prospects, as they offer real opportunities in terms of sustainability, economic efficiency and effectiveness. Through this technology, Valvitalia aims to consolidate its leading role within the firefighting industry.

The fire protection systems market is experiencing a global development phase, driven by technological advancement and supported by a continuous increase in demand. In Italy, this is one of the leading sectors in the security world, having grown by 12.6% ⁽¹⁾ in value in 2023 over 2022. The increase can be attributed to the growing demand for safe buildings, infrastructure and means of transport. It is also due to accelerating urbanisation and the need to comply with increasingly stringent and changing local, national as well as international regulations.

“Water Mist” solutions are used in various sectors, which the two brands, Eusebi and Silvani, cover in a complementary way. Major users that have already deployed the innovative technology include large commercial shipping companies such as MSC, Carnival or NCL, the navies of several countries, Trenitalia and motorway concessionaires (in particular, to protect tunnels and galleries), as well as major oil & gas and energy companies for their own facilities.

Technology in detail

The great advantage of “Water Mist” systems lies in the sustainability of the technology adopted. With the same performance compared to a classic “Sprinkler” system, the new type **reduces water consumption by about 60%**. The efficient use of water resources makes it possible to optimize pumping systems and use less steel, resulting in **energy savings of up to 40%**. In addition, “Water Mist” solutions allow users to operate efficiently on larger surfaces and at a greater height from the ground than classic systems.

“Water Mist” technology gives life to high-efficiency fire extinguishing systems that, by spraying water through nozzles with micro-holes, extinguish or mitigate fire due to the principle of “flame implosion”. Unlike traditional systems, which operate by suppressing the explosion, “Water Mist” acts in a targeted way at the ignition point, neutralising a potential fire right from the start. A rapid response to emergency situations is ensured by highly sensitive sensors that optimise the detection and suppression of anomalies and, if necessary, keep them under control to allow for extinguishing by other means. The promptness of intervention also helps to reduce the need for human involvement in fire management.

Valvitalia is an Italian multinational group specialising in the design, production and distribution of valves, actuators, fittings and gas systems for the energy industry, and fire protection solutions for the marine, railway and infrastructure sectors. Valvitalia was founded in 2002 by Cav. Lav. (Order of Merit for Labour) Salvatore Ruggeri, the current president. It has its headquarters and main factory in Rivanazzano (Pavia) and is one of the big international players in the valve market. Thanks to a targeted acquisition strategy, the Group has expanded its

⁽¹⁾ Statistical data processed by ANIE/ANIE Seguridad, Confindustria



own product offering and consolidated its presence at international level. Today Valvitalia operates 8 plants, 5 of which are in Italy and 3 abroad (China, UK and Canada), while its products are distributed in 115 countries through a direct and indirect network of agents. The Group employs around 800 people, 650 of whom work at the Italian plants. In addition to a specialised structure dedicated to research and development, Valvitalia has five different business units: Fire fighting (with the Eusebi and Silvani brands), Flow control Italy, Flow control China, Tecnoforge and Broady UK. Since March 2023, CDP Equity has been the majority shareholder at 75 per cent, while the Ruggeri family holds a 25 per cent stake in the Group through the holding company Finvalv. In 2023, Valvitalia recorded revenues of 181 million euros, up 36% compared to 2022, and returned to profit of 69 million euros.

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